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REPORT

ENVIRONMENTAL MONITORING REPORT
DECEMBER 2025 – MAY 2026

S2-ENV-WA-GEN-REP-FGJV0156

REV A

JUNE 2026

ABSTRACT					
This document seeks to satisfy the requirements set out in Condition R4 of Environmental Protection Licence 21266.					

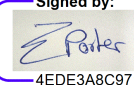
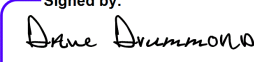
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1. INTRODUCTION

Snowy 2.0 was declared State Significant Infrastructure and Critical State Significant Infrastructure by the NSW Minister for Planning under the provisions of the NSW Environmental Planning and Assessment Act 1979 and is defined in Clause 9 of Schedule 5 of the State Environmental Planning Policy (State and Regional Development) 2011.

An Infrastructure Approval No. SSI 9208 based on the Environmental Impact Statement (EIS) submitted for the Snowy 2.0 Exploratory Works was received on February 7, 2019.

An Environment Protection Licence No. 21266 (EPL21266) under Section 55 of the Protection of the Environment Operations Act 1997 (NSW) was issued to Snowy Hydro Ltd (Snowy Hydro) on May 9, 2019, by the New South Wales Environment Protection Authority (NSW EPA) for land based extractive activities at Lobs Hole and Talbingo Reservoir in Kosciuszko National Park.

Webuild, Clough, and Lane have formed the Future Generation Joint Venture (FGJV) and have been engaged by SHL to deliver both Stage 2 of Exploratory Works and Snowy 2.0 Main Works. As required by EPL21266 Future Generation have undertaken a monthly monitoring program to assess the influence of the Snowy 2.0 Main Works project on groundwater and receiving surface water quality across the Project, specifically the work sites of Talbingo, Lobs Hole, Tantangara, Marica and Rock Forest.

1.1. PURPOSE AND SCOPE

This document is required to address the requirements set out in EPL21266 Condition R4.1 to R4.3. For clarity, condition R4.3 has been provided in Table 1-1 below.

Table 1-1 Licence Condition R4.3

Condition	Environmental Monitoring Report requirement	Report Section
R4.3(a)	Results of all water quality monitoring undertaken in the preceding six (6) month period	
R4.3(b)	Results of all weather monitoring undertaken in the preceding six (6) month period	
R4.3(c)	Assessment of historical trends in all water sampling data for each monitoring point inclusive of the current six (6) month period	
R4.3(d)	Identification of instances where the water quality objective (WQO) triggers for each relevant pollutant were exceeded at receiving water locations and/or where the predicted discharge water quality was exceeded at sediment basin discharge points	
R4.3(e)	Include details of any actions taken by the Licensee in response to exceedances identified under point R4.3(d) including but not limited to: i. additional monitoring ii. remedial actions; and iii. activation of trigger, action, response plans (TARPs).	
R4.3(f)	Recommendations for future actions in relation to monitoring and/or management	
R4.3(g)	Identification of any water quality monitoring that was not completed in compliance with condition M2.2. This must include an appropriate justification for the non-compliance	

1.2. REPORTING PERIOD

For the purposes of this document, the reporting period includes all relevant activities undertaken between the 1 December 2025 and the 31 May 2026.

2. PROJECT UPDATES

2.1.REGULATORY UPDATES

During the reporting period, EPL21266 was subject to one (1) licence variation. A summary of changes to the EPL are presented in Table 2-1.

Table 2-1 EPL21266 Variation

Notice no.	Date of Issue	Summary of Variations
1654401	01 April 2026	- Condition A1.3 has been revised so that commencement of works only requires “written notification from the EPA that it has no objection to the commencement of works”, rather than requiring EPA approval or deeming consultation adequate. - P1.3 - Location of monitoring/discharge points and areas: - Monitoring buoys vertical depth profiler, and new groundwater locations have been added. - Monitoring point descriptions and monitoring requirements across the Licence were standardised to ensure consistency. - A number of redundant monitoring points were removed. - Additional monitoring requirements for: chlorophyll a, nitrates and nitrites, calcium, dissolved organic carbon and magnesium were added. - Requirement to monitor dissolved silver and total metals (apart from iron, manganese, aluminium and chromium) were removed. - M6 - Requirement to monitor volume or mass: a note under M6 which allows SHL to use a mechanical flow meter in the event of an ultrasonic flow meter failure was added. - R4 - Other reporting conditions: - Condition R4.1 has been removed, noting the reporting of exceedances of Water Quality Objectives is managed through the Water Management Plan and associated Trigger Action Response Plans. - Conditions R4.5 to R4.7 have been removed as the EPA does not consider it necessary anymore to provide a spoil monitoring report. - O5 - Other operating conditions: conditions O5.5 and O5.6 have been updated to require SHL to implement and maintain leachate detection procedures for each permanent spoil emplacement area. - G2 Other general conditions: G2.1 the requirement to clearly mark each EPA monitoring point with a sign has been removed. - E - Special conditions: - Requirement E1 to undertake a correlation assessment to trial the use of an in-field membrane filtration method for monitoring faecal coliforms has been removed, as SHL is no longer exploring this alternative monitoring approach. - Reservoir discharge limit validation and nutrient loading monitoring program requirement has been updated to request submission of the Validation Report by 30 October 2026, based on the scope of the program previously provided by SHL.

The changes introduced in the April EPL variation primarily refine and streamline monitoring requirements while improving clarity and consistency, particularly through the alignment of analyte requirements, such that the same suite of parameters is now monitored across all surface water locations. The inclusion of additional monitoring parameters (e.g. dissolved organic carbon) and new monitoring locations (e.g. groundwater sites and buoy-based vertical profiling) will expand the dataset collected and enhance the understanding of water quality dynamics. Conversely, the removal of certain parameters (e.g. dissolved silver and selected metals) and redundant monitoring points reduce unnecessary monitoring effort and improve overall efficiency.

2.2. CONSTRUCTION UPDATES

A summary of key construction activities progressed during the reporting period are provided in Table 2-2 below.

Table 2-2 Key Construction Updates

Location	Key Construction Activities
Lobs Hole	ECVT / MAT Portal - Clearing works at AR02 HDD Marica West commenced. - GIS building works excavated and formwork pours partially complete. - TBM 2 breakthrough from the Tailrace tunnel into the Underground Power Station complex. - Hydromulching of batters complete.
	Office PAD - Office expansion complete with minor internal office fit outs continuing as required. - Hydromulching of batters complete.
	Main Yard - Waste segregation bunding expanded and further formed. - EPL84 spillway repaired and relined. - Hydromulching of batters and applicable areas complete.
	Camp PAD - Main Camp expansion works continued including road sealing, traffic network alterations and further sealing works. - Gym expansion and access roadworks continued. - Asphalt pavement completion at Ex-Camp. - Hydromulching of applicable areas complete.
	GF01 Remedial works continue via the nominated third party.
	Talbingo - Excavation in the diffuser base slab is completed. - Modification of the transition walls formwork is ongoing. - Diffuser walls concrete works started, installation of reinforcement steel and prefabrication of formwork panels are ongoing. - Talbingo Intake Rock placement trial works completed.
	Ravine Bay - Spoil placement ongoing from Intake and D&B tunnel. - Hydromulching completed. - Western drainage line and filling works occurred.
	Ravine Road Inbound and outbound wheel wash reported to be functioning and operating throughout the reporting period.
Marica	- TMB4 operational and mining - BH5 installation ongoing of GFRP.

	• BH2/BH3 HDD Joint Bay construction ongoing. • Excavation continues within the Marica USS which continues to be excavated using D&B methods, with spoil stockpiled in the lined area adjacent to the USS as well as associated Pads. The excavation of the Marica portal and associated pads is largely complete. • Gooandra: All culverts now installed with exception to Tantangara Creek. • Ongoing weed control by Rippers rural. • Hydromuch applied across all key sites at Marica.
Rock Forest	• Permanent spoil emplacement area works complete, liner installed. • Expanded basin adjacent site office operational.
Tantangara	• Construction Milestone event at Tantangara – 5000 m tunnelling for TBM Florence. • Area is being short hauled to the Permanent Spoil Emplacement area as space is made available. Works have commenced to use screened and crushed material for the Tantangara temporary track as part of the Tantangara Intake Stage 3 works. • Excavation within the HRT01-02 tunnel by TBM 3 is ongoing. D&B excavation for the HRT Y-Junction Tunnels also continues. Material from the Tantangara Temporary Emplacement Area. • Intake Stage 3 Phase 1 temporary access road commenced. • TBM spoil placement at the PSE ongoing. • Weed Spraying program complete throughout the reporting period. • Hydromulching activities happened throughout the site. • ERSED controls added after works completed at sinkhole.

3. MONITORING RESULTS

Monthly Water quality monitoring results are provided in Annexure B – EPL MONITORING RESULTS along with trend graphs Annexure C – TREND GRAPHS

3.1. WEATHER MONITORING OBSERVATIONS

3.1.1. WEATHER STATIONS

There are three weather stations along the alignment of the Project that report weather conditions in real time and record historic data which can be presented in daily, hourly or 5-minute intervals. The weather stations are located at representative locations across the Project as follows:

- “Lobs Hole” - an automatic weather station managed by FGJV in Lobs Hole Main Yard.
- “Cabramurra” - an automatic weather station located near the lookout in the Cabramurra township managed by the Bureau of Meteorology (BoM).
- “Tantangara” - an automatic weather station managed by FGJV in Tantangara construction site.

The Tantangara and Lobs Hole gauges are in sub-alpine environments, with elevations of approximately 1200 m and 600 m, respectively. Cabramurra records substantially higher annual rainfalls than the lower-elevation gauges at Lobs Hole and Tantangara. Tantangara and Lobs Hole weather stations record actual onsite conditions at the respective construction sites, while Cabramurra weather station, at 1470 m is typically representative of conditions at Marica.

3.1.2. TEMPERATURE

Figure 3-1, Figure 3-2 and Figure 3-3 present the daily minimum and maximum air temperatures recorded across the Project weather stations for this reporting period. The highest maximum temperature was 42.3 °C recorded at Lobs Hole, while the lowest minimum temperature was -3.5 °C recorded at Tantangara.

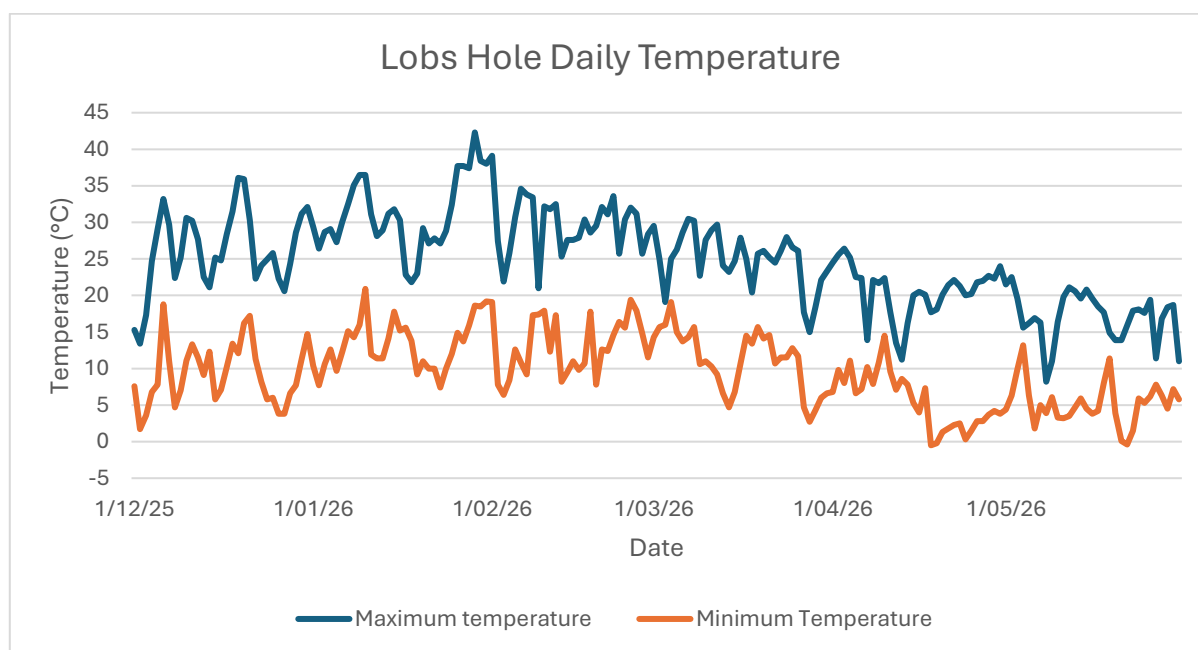


Figure 3-1 Lobs Hole Minimum and Maximum Temperatures

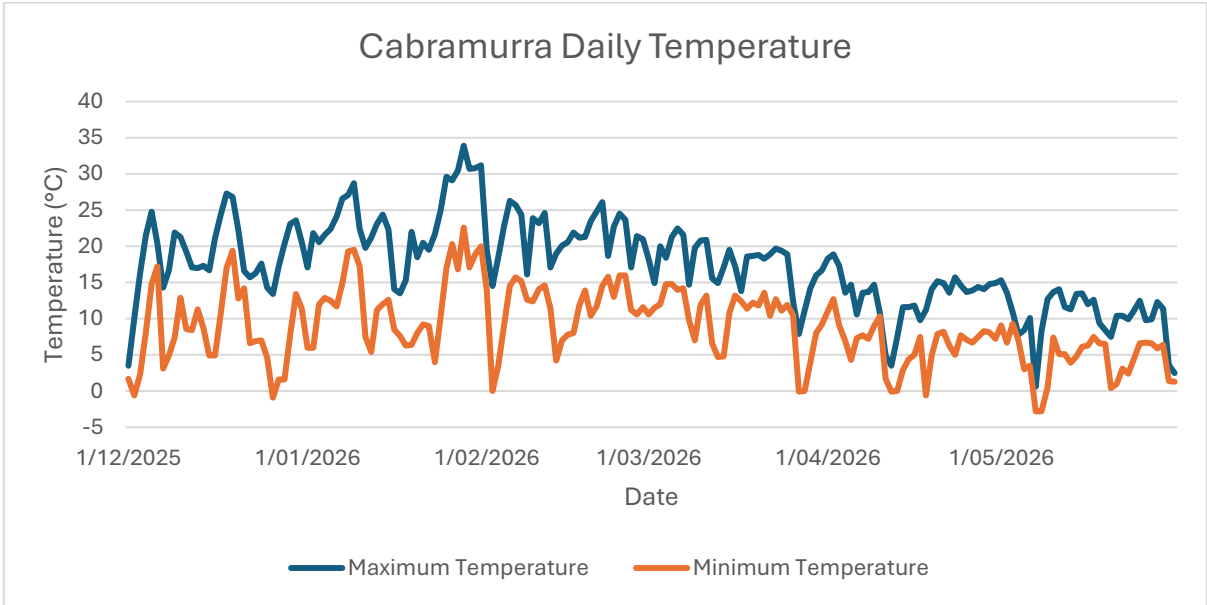


Figure 3-2 Cabramurra Minimum and Maximum Temperatures

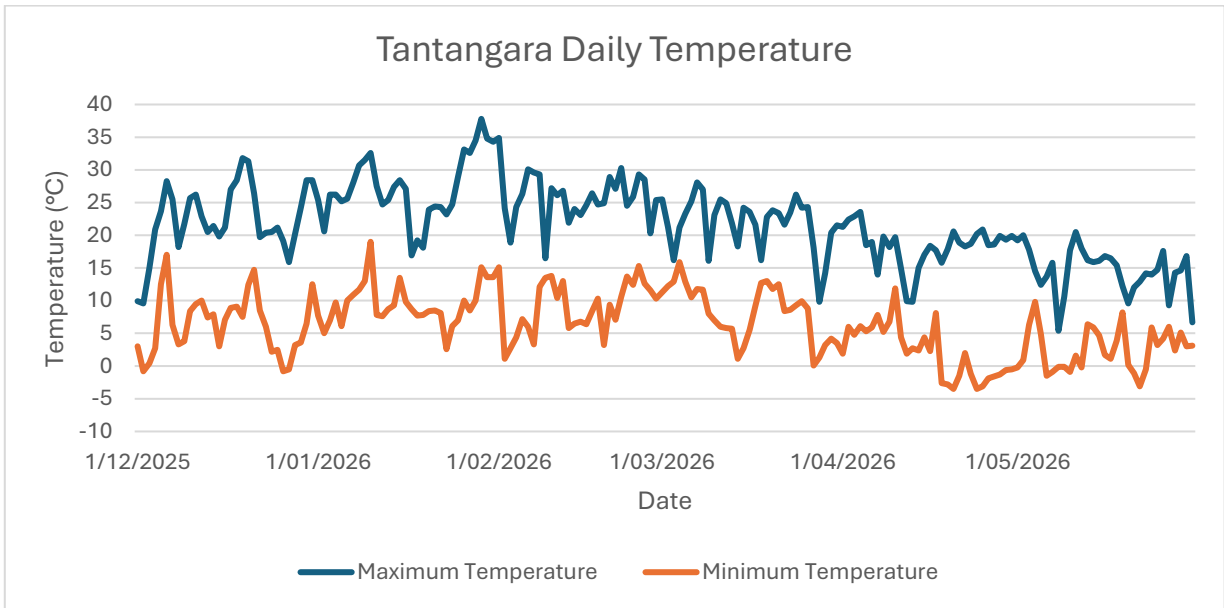


Figure 3-3 Tantangara Minimum and Maximum Temperatures

3.1.3. PRECIPITATION

Total monthly rainfall observed at Lobs Hole, Tantangara and Cabramurra weather stations during the reporting period is displayed in Table 3-1. At each of the three rainfall recording sites, the highest volume of rain that fell in a single day are as follows:

- 60.8 mm at Lobs Hole – 4 May 2026;
- 61.0 mm at Cabramurra (Marica) – 4 May 2026; and
- 44.0 mm at Tantangara – 27 March 2026.

On the five-day time scale, the heaviest precipitation event occurred between 28 February and 4 March 2026. The recorded totals were 76.6 mm at Lobs Hole, 79.2 mm at Cabramurra (Marica), and 63.8 mm at Tantangara.

Table 3-1 Precipitation Data

Monthly Total (mm)	Lobs Hole	Cabramurra (Marica)	Tantangara
December	62.4	76.6	58.6
January	27.6	38	25.8
February	75.8	134.4	74.2
March	170.6	190.4	134.8
April	35.2	43	43.4
May	105.6	110.2	65.8

3.2. LOBS HOLE - YARRANGOBILLY RIVER

Water monitoring along the Yarrangobilly River comprises eight (8) surface water monitoring sites and four (4) groundwater monitoring sites. Three surface water monitoring sites are located upstream of the project works (EPL5, EPL6, and EPL12), while five sites are located downstream (EPL8, EPL9, EPL14, EPL15, and EPL16). Groundwater monitoring sites EPL1, EPL2, EPL4, and EPL25 are located downgradient of the project works and are sampled on a quarterly basis.

While there were no changes to the monitoring network within this zone during the reporting period, EPL2 and EPL4 were subject to inundation at several sampling occasions and were otherwise unable to be sampled. Figure 3-4 presents a map showing the locations of the water monitoring sites within this monitoring zone.

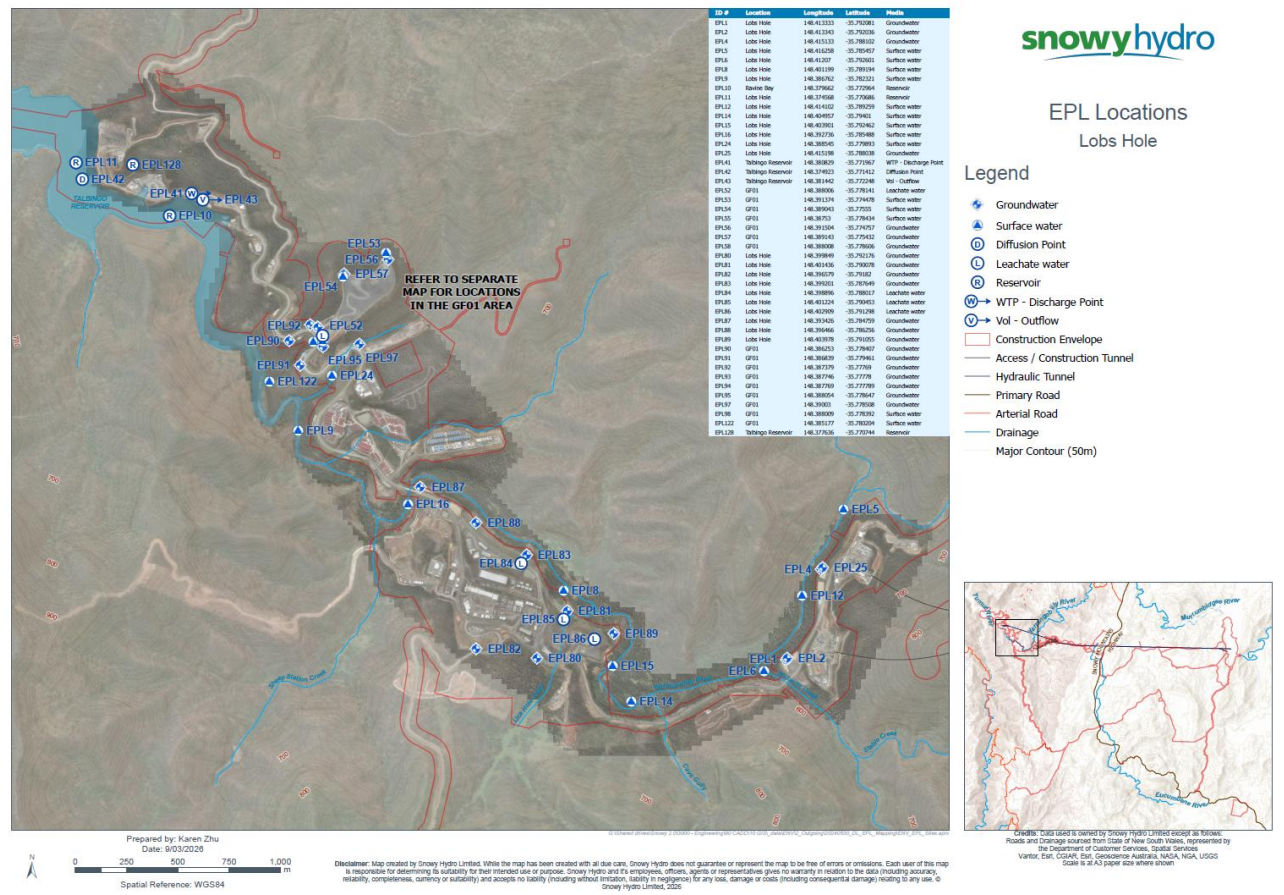


Figure 3-4 Yarrangobilly River Monitoring Zone

3.2.1. SURFACE WATER

A summary of the total number of exceedances recorded for each in-situ water quality parameter at all surface water EPL monitoring locations within this zone (EPL5, EPL6, EPL8, EPL9, EPL12, EPL14, EPL15, EPL16) during the reporting period is presented in Table 3-2, while the corresponding minimum and maximum water quality results are provided in Table 3-3. The complete dataset is provided in Annexure B – EPL MONITORING RESULTS.

Physiochemical Results

Table 3-2 Number of Physiochemical Exceedances

WQO Parameter	DO (%)	EC (µS/cm)	pH	Turbidity (NTU)
WQO Objective Value	90-110	30-350	6.5-8	2-25
December	8	0	8	8
January	7	0	8	6
February	8	0	8	6
March	6	0	3	6
April	1	0	4	7
May	3	0	0	0

Table 3-3 Range of Physiochemical Results

	December		January		February		March		April		May	
Parameter	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
pH	8.1	8.4	8.1	8.6	8.1	8.9	7.4	8.4	7.8	8.1	6.8	7.9
EC (µS/cm)	67	76	150	172	171	204	92	125	89	178	44	89
ORP (mV)	158	180	180	194	19	195	166	225	85	137	201	227
Temperature (°C)	12.6	14.6	21.1	29.9	19.7	23.4	15.7	24.2	6.6	9.5	6.3	8.0
DO % saturation	60.2	70.7	64.0	100.9	80.2	114.4	61.1	98.1	89.4	109.1	71.4	102.9
Turbidity (NTU)	0.0	1.3	0.4	4.7	0.0	17.9	0.4	3.9	0.5	2.5	5.2	15.4

The highest number of exceedances occurred during the summer months (December to February), when almost all monitoring locations recorded exceedances of the dissolved oxygen (DO) and pH. As exceedances were observed at both upstream and downstream monitoring locations, the results are considered to reflect seasonal environmental conditions within the catchment rather than project-related influences.

The increased frequency of low DO exceedances during summer coincided with the highest recorded water temperatures, reaching a maximum of 29.9°C in January. Warmer water has a reduced capacity to retain dissolved oxygen, while lower summer flows can reduce mixing and reaeration, contributing to lower DO concentrations. The elevated pH values observed during summer are also consistent with increased biological productivity, whereby enhanced photosynthesis. Longer daylight hours and extended water residence times during lower-flow conditions can further contribute to this effect.

As water temperatures declined through autumn, from a maximum of 29.9°C in January to 6.3°C in May, the frequency of exceedances generally decreased. By May, no exceedances were recorded for electrical conductivity (EC), pH, or turbidity, although three DO exceedances remained.

Laboratory Analytical Results

Laboratory analytical results for the Yarrangobilly River Monitoring Zone indicate that WQO exceedances were generally limited to nutrients, with exceedances occurring at both upstream and downstream monitoring locations. Nutrient exceedances were most associated with ammonia, while Total Nitrogen (TN) exceedances were primarily attributable to elevated Total Kjeldahl Nitrogen (TKN) concentrations. Total phosphorus exceedances were also recorded at both upstream and downstream locations; however, these were generally limited to individual sampling events, predominantly during April, and did not occur over consecutive monitoring rounds. The occurrence of nutrient exceedances across both upstream and downstream sites, together with the lack of persistent exceedances at individual locations, suggests that nutrient concentrations were influenced by broader catchment conditions.

Metal concentrations generally complied with the applicable WQOs throughout the reporting period. Upstream monitoring locations recorded no metal exceedances, with the exception of chromium, which reached a maximum concentration of 0.2 µg/L, exceeding the WQO of 0.01 µg/L. Similarly, downstream monitoring locations recorded very few metal exceedances, with chromium representing the primary parameter of concern. The highest chromium concentration was recorded at EPL14 in December 2025 (2.3 µg/L), its concentrations subsequently declined throughout the reporting period to 0.3 µg/L in May 2026. While chromium concentrations remained above the WQO, the declining trend indicates improving conditions over time.

Additional exceedances were recorded at EPL14 during December 2025 for dissolved arsenic (6.1 µg/L) and dissolved copper (2.1 µg/L). However, these exceedances were limited to a single monitoring event, with all subsequent results remaining within the applicable WQOs. Total cyanide concentrations remained within the applicable WQOs at all monitoring locations throughout the reporting period.

Total nitrogen concentrations were generally low during December 2025 and January–February 2026 however, elevated concentrations were recorded at multiple monitoring locations from March 2026 onwards. The highest concentrations occurred during April and May 2026, with TN concentrations reaching approximately 900 µg/L at EPL5, 800 µg/L at EPL16 and 700 µg/L at EPL15. Similar increases were observed in TKN concentrations during the same period, while NO_x concentrations remained comparatively low across the monitoring zone. Figure 3-5 demonstrates that increases in Total Nitrogen closely mirrored increases in TKN, indicating that elevated TN concentrations were primarily driven by organic nitrogen rather than oxidised nitrogen species.

The simultaneous occurrence of elevated TKN and TN concentrations across multiple locations suggests the influence of broader catchment-scale processes, such as increased runoff, mobilisation of organic matter, or seasonal hydrological conditions, rather than a localised impact associated with project activities.

3.2.2. GROUNDWATER

Physiochemical Results

Groundwater monitoring sites within this monitoring zone (EPL1, EPL2, EPL4, EPL25) are sampled on a quarterly basis and were therefore scheduled for sampling in February and May 2026 during the reporting period. However, monitoring wells EPL1 and EPL4 were inundated during both sampling events and were not sampled, as the results would not have been representative of groundwater quality conditions.

A summary of the total number of exceedances recorded for each in-situ water quality parameter at the groundwater EPL monitoring locations within this zone during the reporting period is presented in Table 3-4, while the corresponding minimum and maximum water quality results are provided in Table 3-5. The complete dataset is provided in Annexure B – EPL MONITORING RESULTS.

Table 3-4 Number of Physiochemical Exceedances

WQO Parameter	DO (%)	EC (µS/cm)	pH	Turbidity (NTU)
WQO Objective Value	90-110	30-350	6.5-8	2-25
February	2	2	1	1
May	2	2	1	2

Table 3-5 Range of Physiochemical Results

	February		May	
Parameter	Min	Max	Min	Max
pH	6.45	7.03	6.46	6.65
EC (µS/cm)	456	483	449	453
ORP (mV)	9.0	123	-30	103
Temperature (°C)	18.4	19.0	13.1	13.3
DO (% saturation)	18.3	35.0	11.0	59.6
Turbidity (NTU)	11.8	53.9	26.6	1000.0

Laboratory Analytical Results

Groundwater analytical results from EPL2 and EPL25 indicate elevated nutrient concentrations during both February and May 2026. Total nitrogen exceeded the adopted water quality objective of 250 µg/L at all sampled locations, ranging from 400 to 900 µg/L, while ammonia concentrations were also consistently above the 13 µg/L objective (30–220 µg/L). Total phosphorus concentrations were generally elevated above the 20 µg/L objective, with a notable increase at EPL2 in May (530 µg/L). Metal results were more variable and identified several dissolved metal exceedances. Copper concentrations were elevated in February at EPL2 (137 µg/L) and EPL25 (198 µg/L), substantially above the 1 µg/L guideline value, but declined markedly by May, with EPL2 decreasing to 15 µg/L and EPL25 falling below detection limits. Dissolved nickel exceeded the 8 µg/L guideline at EPL25 in February (27.4 µg/L) but was much lower in May (3.1 µg/L). Zinc concentrations also exceeded the guideline at EPL2 and EPL25 during February, particularly at EPL25 (132 µg/L), with reductions observed in May. Overall, the dataset suggests groundwater quality is characterised by elevated nutrients and naturally occurring metals, with some temporal variability between sampling rounds. The reduction in copper, nickel and zinc concentrations between February and May indicates that these elevated results may be associated with short-term geochemical fluctuations, groundwater conditions or sampling variability rather than a persistent contamination source. The increase in dissolved iron at EPL25, coupled with elevated manganese, may indicate localised reducing conditions that promote mobilisation of naturally occurring metals from aquifer materials. Low TSS concentrations, stable hardness values and generally low concentrations of other dissolved metals suggest that groundwater quality is being primarily influenced by natural groundwater chemistry rather than widespread project-related impacts.

3.2.3. ANALYTICAL TREND DISCUSSION

Nutrient concentrations (TKN, NO_x, and TN) exhibited considerable temporal variability, characterised by intermittent peaks rather than sustained trends. Over the most recent six-month period, the magnitude of variability in nitrogen concentrations increased across the monitoring network. Total Nitrogen (TN) closely mirrored the patterns observed in TKN, indicating that nitrogen concentrations were primarily driven by the organic and ammonia fractions rather than by NO_x.

Nutrient concentrations were generally within a similar range across all monitoring locations. The exception was EPL8, which exhibited higher NO_x concentrations than the other sites. As shown in the graph, NO_x concentrations at EPL8 displayed an increasing trend from September 2025 to March 2026, followed by a decline thereafter.

Phosphorus concentrations remained within their historical range of variability. However, EPL5, EPL15, and EPL16 showed elevated Total Phosphorus (TP) concentrations from approximately February–March 2026, before declining in late May 2026.

Overall, the results indicate episodic nutrient responses rather than sustained changes in nutrient status across the monitoring network.

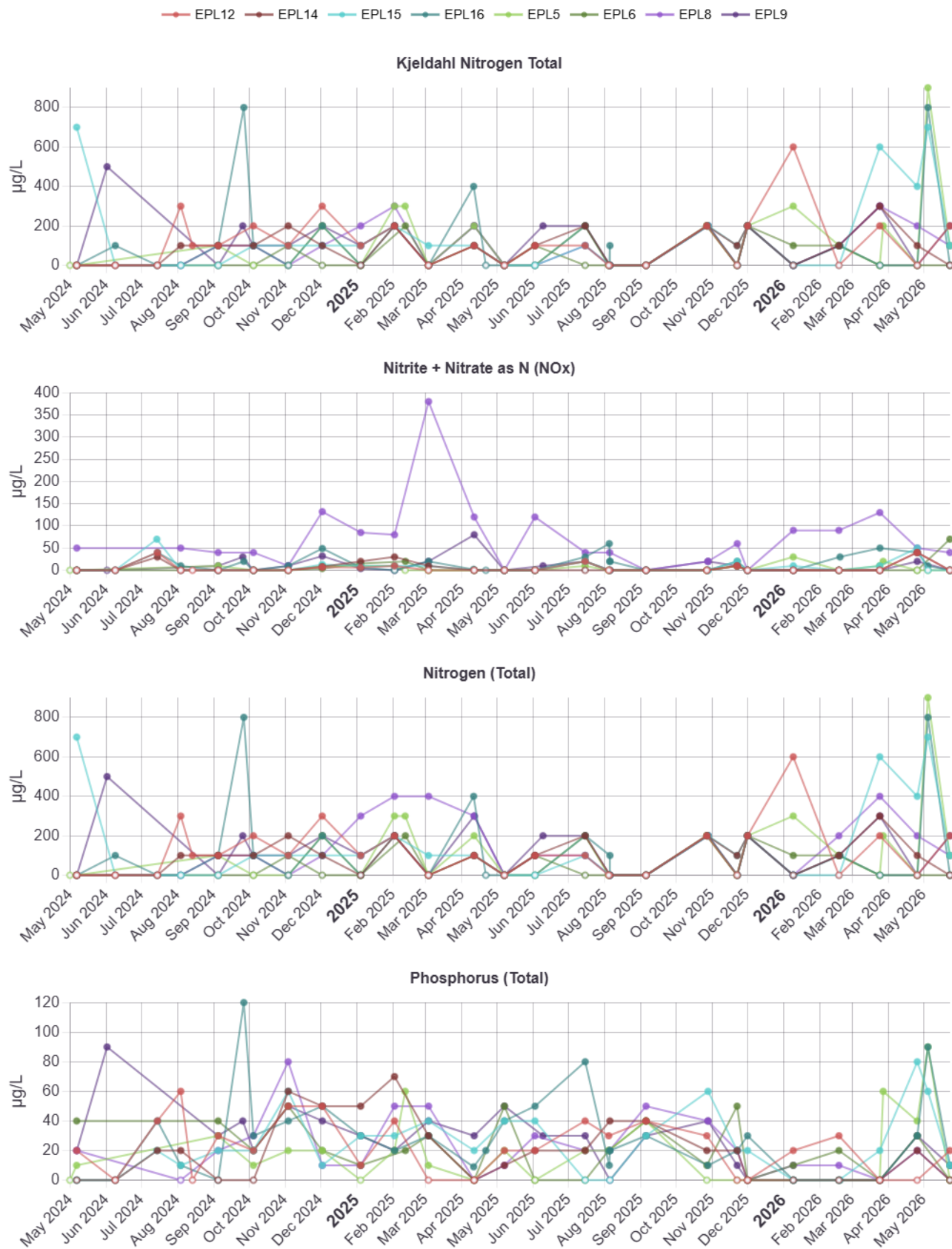


Figure 3-5 Nutrient Trends Yarrangobilly River Monitoring Zone

3.3. LOBS HOLE – MAIN YARD / LICK HOLE GULLY

Water monitoring within the Main Yard - Lick Hole Gully monitoring zone comprises seven (7) groundwater monitoring sites (EPL80, EPL81, EPL82, EPL83, EPL87, EPL88, and EPL89) and three (3) surface water monitoring sites corresponding to leachate basins (EPL84, EPL85, and EPL86). Groundwater monitoring sites EPL80 and EPL82 are located upgradient of the project works, while sites EPL81, EPL83, EPL87, EPL88, and EPL89 are located downgradient.

There were no changes to the monitoring network within this zone during the reporting period. Figure 3-6 presents the locations of the water sampling sites within this monitoring zone.

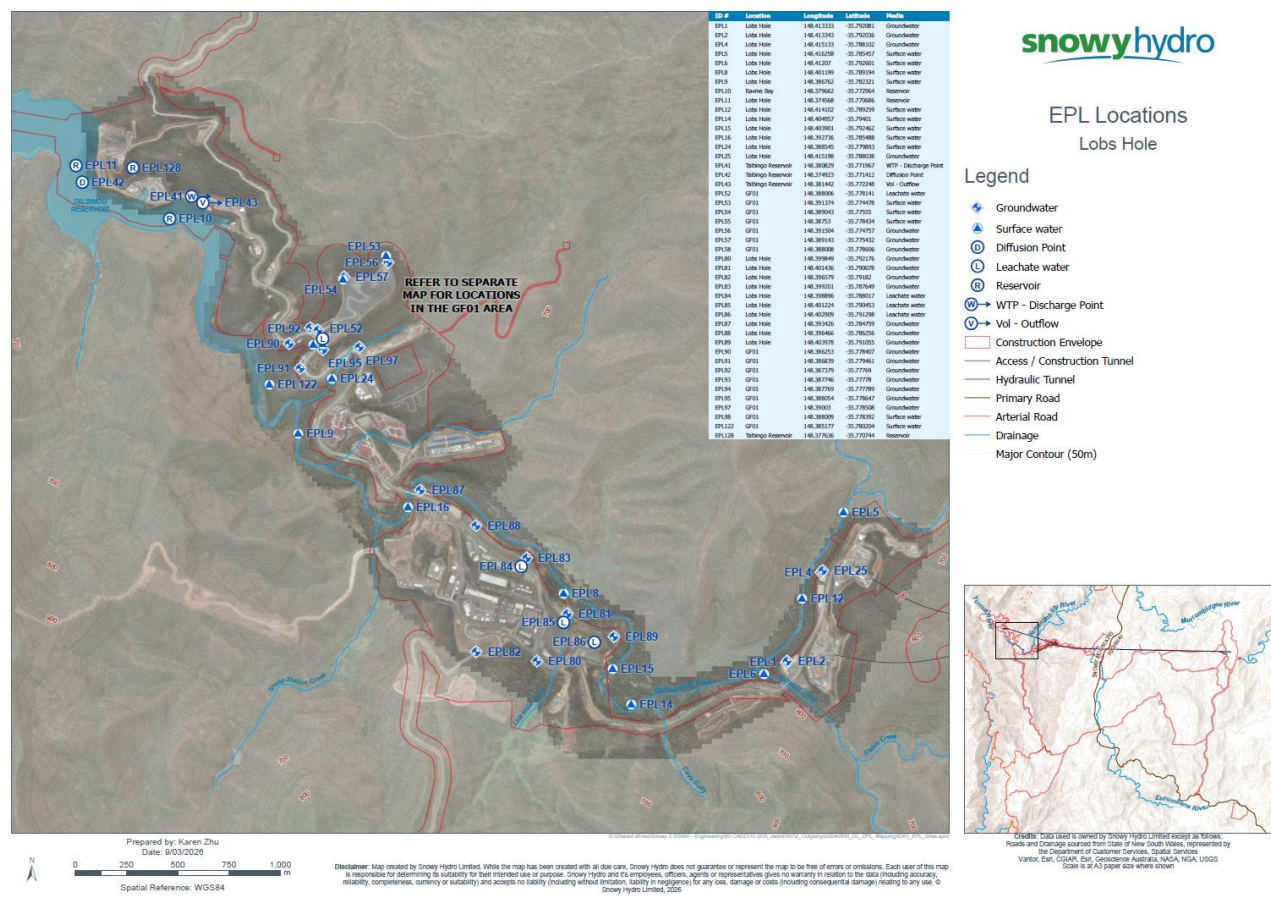


Figure 3-6 Main Yard / Lick Hole Gully Monitoring Zone

3.3.1. SURFACE WATER

All surface water monitoring sites within this zone monitor leachate basins (EPL84, EPL85, and EPL86). During January 2026, these basins were dry and therefore no samples were collected.

Physiochemical Results

The minimum and maximum in-situ water quality results recorded at all surface water EPL monitoring sites within this zone during the reporting period, excluding January 2026, are presented in Table 3-6. The complete dataset is provided in Annexure B – EPL MONITORING RESULTS.

As noted above, the surface water monitoring sites within this zone correspond to leachate basins rather than natural receiving waters; therefore, the applicable water quality objectives for receiving environments are not relevant to these monitoring locations. As shown in Table 3-6, pH values were consistently alkaline, ranging from 8.0 to 9.5. Turbidity levels were elevated, ranging from 62 to 1,000 NTU, while electrical conductivity values reached up to 1160 µS/cm. These results are consistent with the expected water quality characteristics of leachate storage basins. The leachate management system is designed to contain and manage waters with elevated concentrations of suspended solids and dissolved constituents, preventing their release to the surrounding environment.

Table 3-6 Range of Physiochemical Results for SW Main Yard - Lick Hole Gully Monitoring Zone

	December		February		March		April		May	
Parameter	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
pH	8.3	9.1	8.4	9.2	8.0	9.5	8.5	8.9	8.0	8.4
EC (µS/cm)	1.0	887.0	1040	1160	691.0	794.0	467.0	1010	380.0	883.0
ORP (mV)	43	158	27	1160	92	110	142	157	85	163
Temperature (°C)	16.2	20.5	21.7	27.2	19.3	20.5	11.2	18.1	10.6	13.8
DO % saturation	80.5	97.3	40.5	91.3	52.5	147.1	80.6	90.4	62.5	86.8
Turbidity (NTU)	75.0	1000	346.0	1000	92.6	1000	98.5	1000	62.2	410

Laboratory Analytical results

Elevated nutrient concentrations were recorded within the Main Yard leachate basins during the reporting period. Maximum concentrations included ammonia as N of 80 µg/L at EPL84, NO_x of 7,410 µg/L at EPL86, total nitrogen (TN) of 9,000 µg/L at EPL85, and total phosphorus (TP) of 1,520 µg/L at EPL85. Elevated dissolved metal concentrations were also recorded, with maximum concentrations of dissolved arsenic of 17.5 µg/L at EPL85, dissolved chromium (III+VI) of 19.9 µg/L at EPL85, and dissolved copper of 5.0 µg/L at EPL84.

The recorded nutrient and metal concentrations are consistent with expected water quality characteristics of leachate storage basins, which are designed to contain and manage waters with elevated concentrations of nutrients, metals, and other dissolved constituents.

3.3.2. GROUNDWATER

Physiochemical Results

A summary of the total number of exceedances recorded for each in-situ water quality parameter at all groundwater EPL monitoring locations within this zone (EPL80, EPL81, EPL82, EPL83, EPL87, EPL88, and EPL89) during the reporting period is presented in Table 3-7, while the corresponding minimum and maximum water quality results are provided in Table 3-8. The complete dataset is provided in Annexure B.

Table 3-7 Number of Physiochemical Exceedances

WQO Parameter	DO (%)	EC (µS/cm)	pH	Turbidity (NTU)
WQO Objective Value	90-110	30-350	6.5-8	2-25
December	7	6	2	4
January	6	6	1	4
February	7	7	1	5
March	7	7	0	6
April	7	7	0	6
May	7	6	4	7

Table 3-8 Range of Physiochemical Results

	December		January		February		March		April		May	
Parameter	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
pH	6.43	9.73	6.46	7.25	6.29	7.12	6.56	6.99	6.63	7.24	5.45	8.65
EC (µS/cm)	287	912	284	980	407	2770	424	2910	351	2760	129	2980
ORP (mV)	-91	194	-43	217	-44	177	-11	189	-63	135	-133	172
Temperature (°C)	13.6	17.0	16.0	20.7	18.3	20.1	15.5	17.5	14.3	19.8	13.8	18.6
DO % saturation	7.5	38.9	5.2	122	0.0	33.5	6.5	26.6	19.3	36.8	18.8	62.5
Turbidity (NTU)	5.2	107	5.2	174	0.0	252	0.6	181	4.3	233	28.2	351

Physiochemical Results

Electrical conductivity was the parameter that most consistently exceeded the adopted WQO, with six to seven monitoring sites recording elevated values during each monitoring event. EC ranged from 129 to 2,980 µS/cm throughout the reporting period, indicating variability in dissolved ion concentrations across the groundwater monitoring network.

The second in situ parameter with most WQO exceedances with 6 to 7 locations exceeding during the 6-month period was DO. Although dissolved oxygen concentrations were below the adopted WQO at most monitoring sites, low dissolved oxygen conditions are commonly observed in groundwater environments due to limited atmospheric interaction and naturally reducing subsurface conditions. And these DO values were consistent with historical results for the monitoring zone.

Laboratory Analytical Results

Metal concentrations generally complied with the adopted WQOs for this monitoring zone throughout the reporting period. Isolated exceedances were recorded for dissolved arsenic, chromium, copper, iron, nickel, and zinc at several monitoring locations. The highest concentrations were recorded at EPL83, including dissolved arsenic (61.5 µg/L), dissolved chromium (2.9 µg/L), dissolved copper (353 µg/L), and dissolved zinc (18 µg/L). The highest dissolved iron concentration was recorded at EPL81 (6,120 µg/L), while the highest dissolved nickel concentration was recorded at EPL87 (57.6 µg/L). Exceedances were generally sporadic and localised to individual monitoring locations, with no widespread increasing trend evident across the groundwater monitoring network.

Ammonia and total phosphorus exceeded the adopted WQOs in 88% of sampling events across the monitoring network, including both upgradient and downgradient monitoring locations. Maximum concentrations of 340 µg/L ammonia were recorded at EPL88, while total phosphorus reached 500 µg/L at EPL87.

Total nitrogen concentrations were highest at EPL87, where a concentration of 15,100 µg/L was recorded in March 2026. EPL87 consistently exhibited the highest nutrient concentrations within the Main Yard monitoring zone during the reporting period.

3.3.3. ANALYTICAL TREND DISCUSSION

Trend graphs for total Kjeldahl nitrogen (TKN), NO_x, and total nitrogen (TN) for leachate basins in this zone show that while concentrations remained elevated during the last six months of the reporting period, a decreasing trend was observed for NO_x and TN relative to historical results.

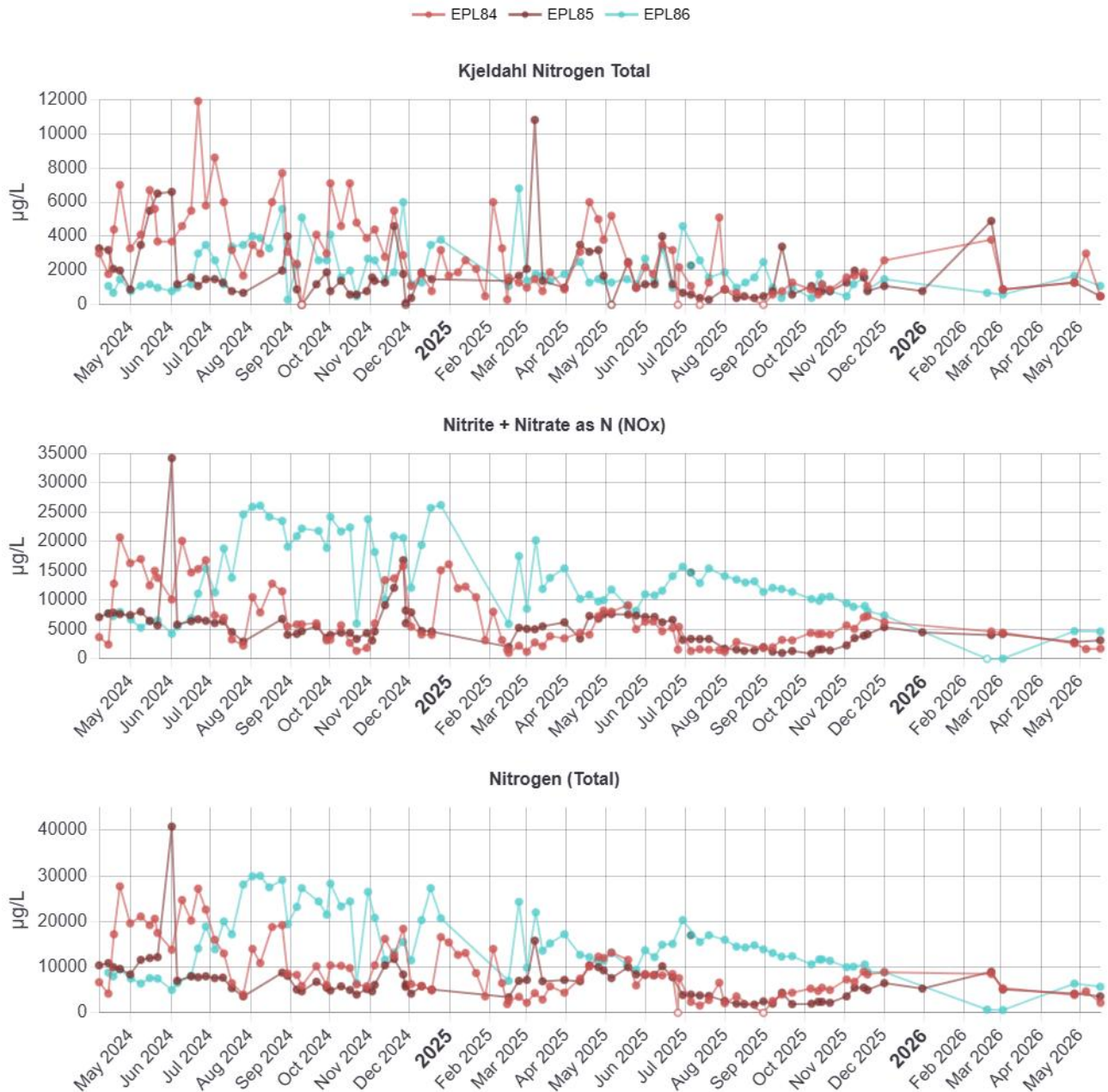


Figure 3-7 Nutrient Trend SW Main Yard / Lick Hole Gully Monitoring Zone

Figure 3-8 presents trend graphs for nutrients (TKN, NO_x and TN) at groundwater monitoring locations within Main Yard / LHG. The data indicate that nutrient concentrations at EPL80, EPL81, EPL82, EPL88, and EPL89 remained relatively stable and within historical variability throughout the reporting period. In contrast, EPL83 exhibited an increasing trend in TN from March 2026 onwards, which appears to be associated with increasing NO_x concentrations.

EPL87 continued to record the highest nutrient concentrations across the monitoring network, with elevated TN concentrations since September 2024. The trend plots show that this increase has been driven by NO_x concentrations. However, since March 2026, both NO_x and TN concentrations at EPL87 have shown a declining trend, suggesting an improvement in water quality conditions at this location. Despite this recent decrease, nutrient concentrations at EPL87 remain elevated relative to the remainder of the monitoring network and above the relevant guideline values.

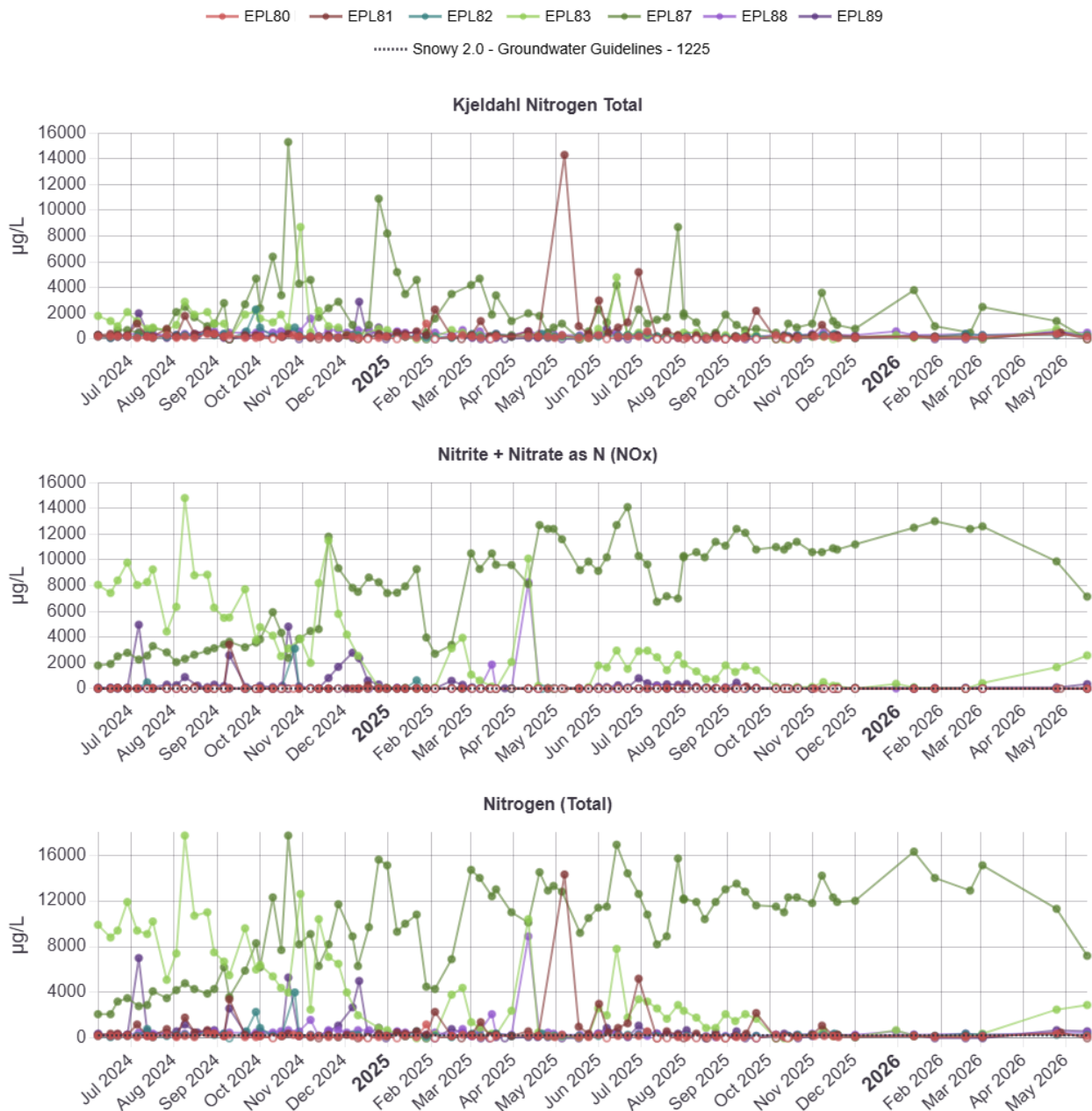


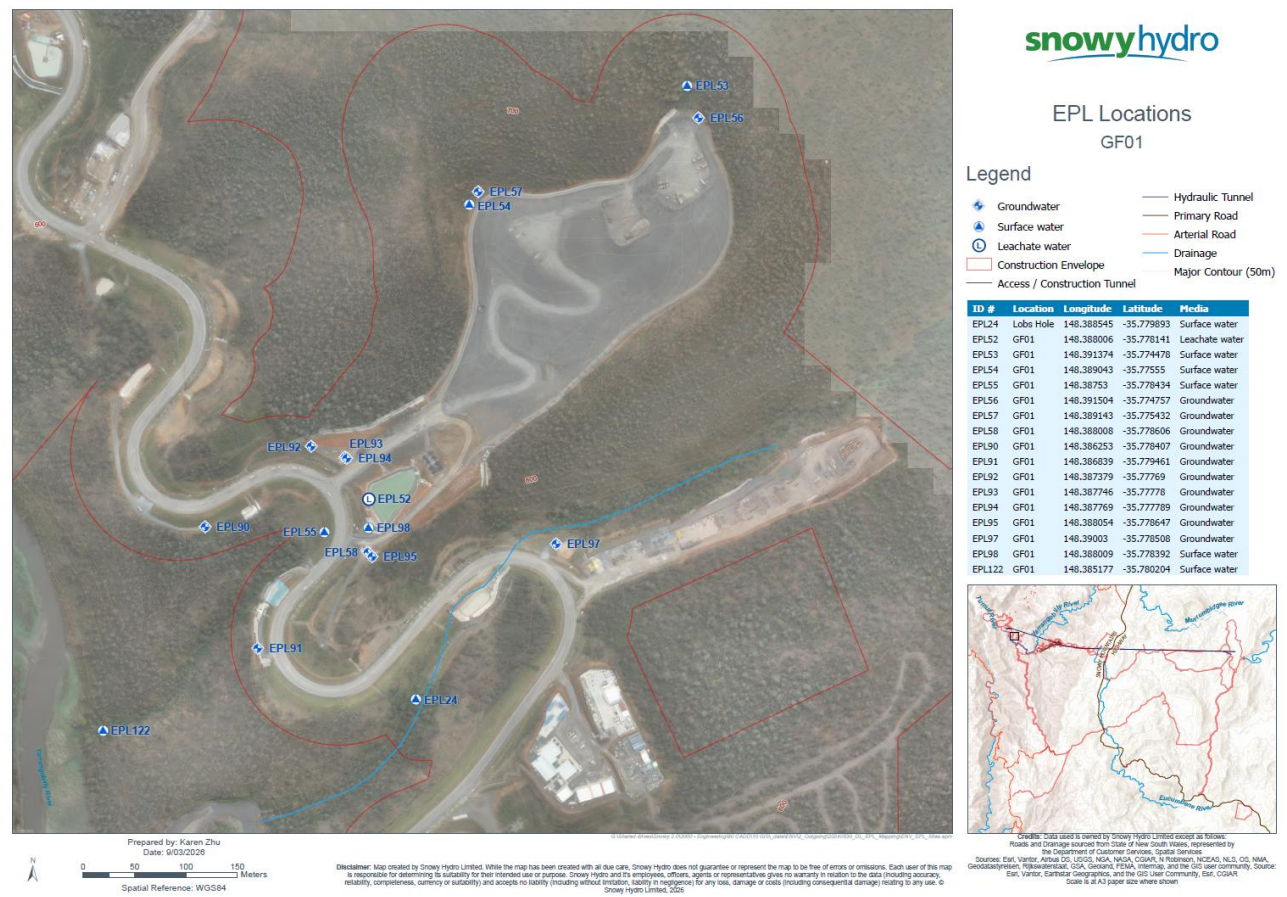
Figure 3-8 Nutrient Trends Main Yard / LHG Monitoring Zone

3.4. LOBS HOLE – GF01 EMPLACEMENT AREA

Water monitoring within the GF01 emplacement area monitoring zone comprised eleven (11) groundwater monitoring sites and seven (7) surface water monitoring sites during the reporting period. Groundwater monitoring sites EPL56 and EPL57 are located upgradient of the project works, while EPL58, EPL90, EPL91, EPL92, EPL93, EPL94, EPL95, EPL96, and EPL97 are located downgradient. Surface water monitoring sites EPL24, EPL55, EPL98, and EPL122 are located downgradient of the project works, while EPL52 monitors the leachate basin. Surface water monitoring sites EPL53 and EPL54 were located upstream of the project works.

Following a licence variation effective from 1 April 2026, monitoring sites EPL53, EPL54 and groundwater monitoring bore EPL96 were removed from the monitoring network. Accordingly, results for EPL96 are reported for the period December 2025 to March 2026 only, while EPL53 and EPL54 were not sampled during the reporting period. Since 1 April 2026, the monitoring network has comprised ten (10) groundwater monitoring sites and five (5) surface water monitoring sites. Figure 3-7 presents the locations of the water monitoring sites within this monitoring zone.

GF01 has previously been identified as influenced by the Project and is currently subject to remedial investigations which will eventuate into a safe, stable non-polluting landform. This mechanism is a well documented and understood construction-related source and will continue until remedial works are complete. It is noted no spoil emplacement occurred at the location during the reporting period.



3.4.1. SURFACE WATER

Seasonal changes, including reduced rainfall and warmer temperatures, resulted in surface water monitoring sites EPL24, EPL53, EPL54, EPL55, EPL98, and EPL122 being dry and unavailable for sampling during December 2025, January, and February 2026. Leachate basin monitoring site EPL52 was dry during December 2025 and January 2026 but contained sufficient water for sampling in February 2026.

Physicochemical Results

A summary of the total number of exceedances recorded for each in-situ water quality parameter at all surface water EPL monitoring sites within this zone from February to May 2026 is presented in Table 3-9, noting that during February, only one monitoring site (EPL52) was sampled. The corresponding minimum and maximum water quality results are provided in Table 3-10. The complete results dataset is provided in Annexure B – EPL MONITORING RESULTS.

Table 3-9 Number of Physiochemical Exceedances

WQO Parameter	DO (%)	EC (µS/cm)	pH	Turbidity (NTU)
WQO Objective Value	90-110	30-350	6.5-8	2-25
February	1	1	1	0
March	4	5	2	3
April	4	5	1	2
May	4	5	1	2

Table 3-10 Range of Physiochemical Results

	March		April		May	
Parameter	Min	Max	Min	Max	Min	Max
pH	6.05	8.56	6.12	7.27	6.70	8.18
EC (µS/cm)	761.0	1570.0	653.0	1700.0	421.0	957.0
ORP (mV)	177.0	281.0	158.0	213.0	207.0	276.0
Temperature (°C)	18.2	22.2	12.5	19.0	12.2	15.5
DO % saturation	49.1	92.3	62.9	103.1	54.2	97.8
Turbidity (NTU)	1.6	135.0	0.3	39.8	11.3	132.0

Electrical conductivity (EC) was the parameter with the highest frequency of exceedances, with all sampled sites exceeding the relevant WQO during March, April, and May. Electrical conductivity values ranged from 421 µS/cm at EPL24 to 1,700 µS/cm at EPL98, indicating elevated concentrations of dissolved salts and ions within the monitoring zone.

Dissolved oxygen (DO) concentrations were below the applicable objective at multiple monitoring sites, with a minimum saturation of 49.1% recorded at EPL24 in March 2026. Turbidity exceedances were also recorded, with a maximum value of 135 NTU measured at EPL122 in March 2026. While pH generally remained within the applicable objective range, isolated exceedances were observed with values ranging from 6.05 at EPL98 to 8.56 at EPL52.

Laboratory Analytical Results

During the last six months of the reporting period, nutrient concentrations showed variability between monitoring sites. EPL98 recorded the highest TN and NO_x concentrations, including TN concentrations exceeding 100,000 µg/L in April 2026, which is consistent with expectations as this site monitors leachate water. Nutrient concentrations at EPL24 and EPL52 remained relatively stable, while EPL55 exhibited a decreasing trend through early 2026 followed by an increase during April and May 2026. EPL122 has shown an increasing trend since March 2026, driven primarily by NO_x concentrations. Overall, nutrient concentrations remained elevated across the monitoring zone.

Metal concentrations generally complied with the adopted WQOs across the monitoring network throughout the reporting period. The exception was dissolved chromium which exceeded the WQO at all monitoring locations during most sampling events. Isolated exceedances of dissolved arsenic and dissolved zinc were also recorded, with maximum concentrations of 5.9 µg/L dissolved arsenic at leachate monitoring site EPL52 and 36 µg/L dissolved zinc at EPL98. Overall, metal exceedances were sporadic and localised, with no evidence of a widespread increasing trend across the monitoring network. The elevated arsenic and zinc concentrations recorded at EPL52 and EPL98 are consistent with expectations for monitoring locations containing leachate-affected water.

3.4.2. GROUNDWATER

A summary of the total number of exceedances recorded for each physiochemical water quality parameter at all groundwater EPL monitoring locations within this Monitoring Zone during the reporting period is presented in Tables 3-11 and 3-12 below.

Physiochemical Results

Table 3-11 Number of Physiochemical Exceedances

WQO Parameter	DO (%)	EC (µS/cm)	pH	Turbidity (NTU)
WQO Objective Value	90-110	30-350	6.5-8	2-25
December	11	4	6	5
January	9	4	2	6
February	6	4	5	8
March	11	4	4	9
April	8	3	3	6
May	10	3	3	5

Table 3-12 Range of Physiochemical Results

	December		January		February		March		April		May	
Parameter	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
pH	5.86	8.05	6.07	7.91	6.06	8.68	5.82	7.90	5.82	7.35	6.25	8.19
EC (µS/cm)	51	900	95	946	49	862	61	900	143	964	103	697
ORP (mV)	89	238	-15	169	-1.0	272	179	289	120	435	18	266
Temperature (°C)	16.4	20.2	16.0	22.0	15.3	22.1	16.2	18.9	13.4	18.8	14.7	17.1

DO % saturation	8.6	61.6	19.0	104	16.8	101	12.4	63.9	21.1	107.7	9.0	79.0
Turbidity (NTU)	2.8	1000	1.2	1000	0.8	1000	1.4	1000	7.0	140	2.0	382

Groundwater quality monitoring undertaken between December 2025 and May 2026 across EPL56–EPL97 showed generally stable groundwater chemistry, with pH ranging from 5.82 to 8.68. Most sites recorded pH values close to the nominated water quality objective of 6.5–8.0, although several exceedances occurred at EPL58 and EPL90–91, where acidic conditions (<6.5) and occasional alkaline conditions (>8.0) were observed. Electrical conductivity (EC) varied substantially between locations, ranging from 49 to 964 µS/cm. Lower conductivity values were generally recorded at EPL90 and EPL93 while consistently elevated EC was observed at EPL58, indicating higher dissolved mineral concentrations characteristic of groundwater conditions influenced by possible migration. Groundwater temperatures were relatively stable throughout the monitoring period, declining seasonally from approximately 16–22°C during summer to 13–18°C by April and May.

Turbidity and total suspended solids (TSS) exhibited the greatest variability in the dataset and were the primary indicators of disturbance. While many samples recorded low turbidity (<25 NTU) and low TSS concentrations, several locations—particularly EPL57, EPL58, EPL93, EPL94 and EPL95—recorded recurring elevated turbidity, with maximum values reaching 1,000 NTU. Correspondingly, TSS concentrations ranged from below the laboratory reporting limit (<5 mg/L) to a maximum of 16,900 mg/L, indicating episodes of significant suspended sediment mobilisation. Groundwater hardness remained relatively consistent throughout the monitoring period, ranging from 16 to 376 mg/L as CaCO₃, with higher hardness generally associated with the more conductive groundwater sites. Overall, the dataset indicates stable groundwater chemistry and temperature, but with notable localised variability in dissolved oxygen, turbidity and suspended solids that may reflect site-specific hydrogeological conditions and periodic disturbance events.

Laboratory Analytical Results

Nutrient results indicate that groundwater quality is strongly influenced by naturally elevated nitrogen species at several monitoring locations. Total nitrogen concentrations frequently exceeded the adopted water quality objective of 250 µg/L, with values reaching up to 52,500 µg/L. These elevated concentrations were predominantly driven by nitrate/nitrite (NO_x), which regularly occurred at concentrations between 26,000 and 48,000 µg/L at several bores, while other locations consistently returned very low concentrations. Ammonia concentrations were generally low, mostly below 50 µg/L, with only occasional elevated results up to 240 µg/L. The dominance of nitrate over ammonia suggests that groundwater conditions are generally oxidising and that elevated nitrogen is likely associated with natural groundwater geochemistry, historical land use influences, or nitrogen-rich geological materials rather than recent organic contamination. Reactive phosphorus was typically below detection limits or below the 15 µg/L water quality objective, indicating limited bioavailable phosphorus in the groundwater system despite occasional elevated total phosphorus results.

Total cyanide and oil and grease was below the laboratory reporting limit in every sample throughout the monitoring period. Dissolved organic carbon concentrations were also low (generally less than 1–2 mg/L), indicating limited organic loading within the groundwater system. Overall, the analytical dataset suggests groundwater quality is characterised by naturally elevated mineralisation and nitrogen concentrations at specific locations, together with intermittent increases in particulate-bound metals associated with sediment-rich samples. The strong relationship between elevated metals, turbidity and TSS indicates that many of the higher metal concentrations are likely attributable to entrained sediments rather than dissolved contamination.

3.4.3. ANALYTICAL TREND DISCUSSION

As shown in the graphs below, the monitoring points with the highest magnitude nutrient concentrations within this zone are EPL24, EPL52, EPL55, EPL58, EPL95, EPL96, and EPL98. These locations include both surface water and groundwater monitoring points situated downgradient of the Project. The elevated nutrient concentrations indicate that water quality within this monitoring zone has been influenced by Project activities. This impact has been previously identified and is currently the subject of remedial investigations aimed at achieving a safe, stable, and non-polluting landform.

Although nutrient concentrations at groundwater monitoring locations EPL56 and EPL57 are of a lower magnitude, these sites, which are situated upstream of the Project, have exhibited increasing trends in both TN and NO_x concentrations since the commencement of the monitoring program. While total phosphorus concentrations at both locations have continued to fluctuate within their historical range of variability.

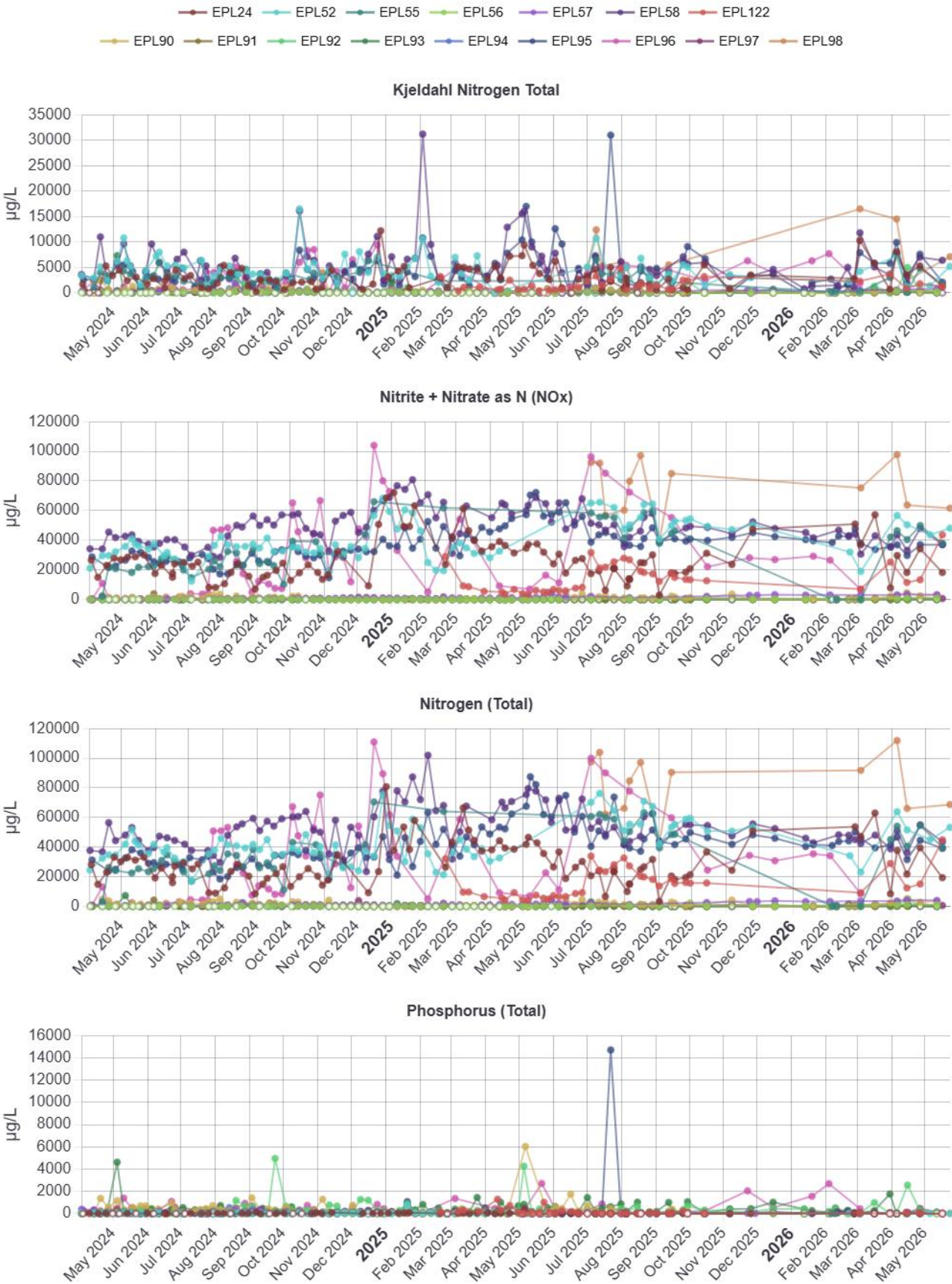


Figure 3-10 Nutrient Trends GF01 Monitoring Zone

Following a licence variation effective from 1 April 2026, monitoring sites EPL111 and EPL112 were removed from the monitoring program. In addition, monitoring site EPL128 was added to the monitoring locations network; however, no analyte suite was assigned to this site under the licence. Figure 3-11 presents the locations of the water monitoring sites within this monitoring zone.

Figure 3-11 Ravine Bay Emplacement Area Monitoring Zone

Surface water availability within the Ravine Bay monitoring zone varied throughout the reporting period. EPL106 was sampled during all six monitoring events, while EPL118 was sampled in December 2025 and February to April 2026 but was dry during January 2026. EPL119 was sampled from December 2025 to April 2026. EPL120 remained dry from December 2025 to April 2026. In May 2026, EPL118, EPL119 and EPL120 were not sampled due to access safety constraints. EPL110, the only monitoring location within this zone representing a natural surface water body, was dry between December 2025 and April 2026 and was only sampled in May 2026.

Physiochemical Results

Surface water monitoring points EPL106, EPL118, EPL119 and EPL120 correspond to leachate basins; therefore, the applicable water quality objectives for receiving environments are not relevant to these monitoring locations. As noted above, the only monitoring location within this zone representing a natural receiving water during the reporting period was EPL110, which was sampled only in May 2026. In-situ physiochemical results recorded at EPL110 were within the relevant WQOs, with the exception of dissolved oxygen saturation, which was recorded at 71.4% compared to the WQO range of 90–110%.

The minimum and maximum in-situ water quality results recorded at all sampled surface water EPL monitoring locations within this zone during the reporting period are presented in Table 3-14. The complete results dataset is provided in Annexure B – EPL MONITORING RESULTS.

Table 3-13 Range of Physiochemical Results

	December		January		February		March		April		May	
Parameter	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
pH	8.60	9.08	8.38	8.91	8.23	8.73	7.83	9.11	7.88	8.49	7.80	7.94
EC (µS/cm)	1170	2830	1870	2120	2180	3540	232	2240	1570	2450	44	2100
ORP (mV)	165	213	65	103	29	106	10	185	158	194	91	175
Temperature (°C)	15.8	26.5	23.0	25.9	20.8	22.6	17.5	22.8	16.6	18.9	12.1	12.7
DO % saturation	70.8	95.9	66.8	118	52.1	63.7	68.7	83.4	70.7	87.3	62.7	71.4
Turbidity (NTU)	12.5	40.2	1.6	28.2	2.3	45.4	1.8	173	3.1	89.0	13.4	24.0

Laboratory analytical results

Analytical results recorded at EPL110 in May 2026 were generally within the applicable WQOs and were lower than those recorded during the previous sampling event in November 2025. The only analytes exceeding the relevant WQOs were ammonia (60 µg/L) and dissolved zinc (28 µg/L). Overall, the results indicate that water quality within the receiving water environment remained relatively good when surface water was present.

3.5.2. GROUNDWATER

Table 3-14 Number of Physiochemical Exceedances

WQO Parameter	DO (%)	EC (µS/cm)	pH	Turbidity (NTU)
WQO Objective Value	90-110	30-350	6.5-8	2-25
December	5	1	0	4
January	4	2	1	3
February	4	1	3	3
March	4	2	1	4
April	5	0	1	4
May	5	1	0	3

Table 3-15 Range of Physiochemical Results

	December		January		February		March		April		May	
Parameter	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
pH	6.60	7.52	6.42	7.61	6.02	7.55	6.14	7.67	6.11	7.03	7.07	7.70
EC (µS/cm)	113	388	126	371	96	359	129	408	109	337	1	294
ORP (mV)	149	285	-48	157	28	254	18	228	-39	216	-11	199
Temperature (°C)	12.3	22.6	16.0	20.5	16.2	22.5	19.3	21.4	13.3	15.6	13.5	14.3
DO % saturation	23.0	63.6	3.4	104	0.4	114	18.9	99.8	13.0	60.2	24.1	57.5
Turbidity (NTU)	7.6	377	0.0	274	2.0	49.0	8.6	617	17.9	1000	7.2	279

Physiochemical Results

Groundwater physicochemical monitoring at EPL113–EPL117 between December 2025 and May 2026 indicates generally stable groundwater chemistry, with pH values largely within or close to the nominated water quality objective range of 6.5–8.0. pH ranged from 6.02 to 7.70, with occasional slightly acidic results recorded at EPL113 and EPL116. Electrical conductivity (EC) remained relatively consistent throughout the monitoring period, ranging from 89 to 408 µS/cm. Most results were within or near the guideline range of 30–350 µS/cm, although EPL114 periodically recorded elevated conductivity, suggesting comparatively higher dissolved mineral content at this location. Groundwater temperatures followed expected seasonal trends, increasing to approximately 20–22°C during summer before declining to 13–16°C during autumn.

Dissolved oxygen (DO) concentrations were highly variable and frequently below the water quality objective range of 90–110% saturation. Most monitoring points recorded low DO values between 0.4% and 60%, although occasional elevated results exceeding 100% saturation were observed at EPL115 and EPL116. The generally low oxygen concentrations are typical of groundwater systems where limited interaction with the atmosphere and natural microbial activity consume available oxygen. Oxidation-reduction potential (ORP) values ranged from -48 mV to 285 mV, indicating varying geochemical conditions across the monitoring network. The occurrence of both reducing and oxidising conditions is consistent with the low dissolved oxygen concentrations observed at several bores and reflects natural variation in groundwater flow paths and subsurface environments.

Turbidity exhibited the greatest degree of variability across the monitoring network, ranging from 0 NTU to 1,000 NTU. While many samples met the guideline range of 2–25 NTU, repeated high turbidity results were recorded at EPL115, EPL116 and EPL117, including several measurements exceeding 100 NTU and one result reaching 1,000 NTU. These elevated turbidity levels indicate periodic mobilisation of fine sediments within the aquifer or monitoring bores and suggest that some locations are particularly susceptible to sediment entrainment during sampling or following recharge events. Overall, the dataset indicates relatively stable groundwater chemistry and mineralisation, with the primary water quality variability associated with dissolved oxygen and suspended sediment levels rather than broad changes in groundwater chemical composition.

Laboratory Analytical Results

The groundwater analytical results from EPL113–EPL117 between December 2025 and May 2026 indicate natural localised conditions, with most analytes either below detection limits or occurring at concentrations typical of natural groundwater systems. Groundwater hardness was relatively stable, ranging from 29 to 198 mg/L as CaCO₃, reflecting moderately mineralised groundwater. Total suspended solids (TSS), however, were highly variable, ranging from below the reporting limit to 2,210 mg/L. The highest TSS concentrations occurred predominantly at EPL116 and EPL117 and corresponded with elevated turbidity observed in field measurements. This suggests periodic mobilisation of fine sediments within the aquifer or bore infrastructure rather than a persistent deterioration in groundwater quality. Cyanide and oil and grease were not detected in any sample, providing no evidence of impacts from hydrocarbons or cyanide-containing materials.

Nutrient concentrations were generally low compared with other groundwater monitoring locations across the project area. Total nitrogen concentrations ranged between less than detection and 400 µg/L, with only occasional exceedances of the adopted 250 µg/L WQO. Nitrogen species were present predominantly as low concentrations of ammonia and nitrate, with NO_x concentrations typically less than 140 µg/L. Reactive phosphorus was generally below detection limits, although isolated elevated results of 20–100 µg/L were recorded, particularly at EPL117. Total phosphorus showed greater variability ranging from less than detection to 410 µg/L, with the highest concentrations occurring at locations that also exhibited elevated TSS. This relationship suggests that phosphorus is largely associated with suspended sediments rather than being present in dissolved form. Overall, the nutrient dataset indicates limited nutrient enrichment and no evidence of increasing nutrient concentrations over time throughout the reporting period.

Metal concentrations show a strong influence of suspended sediments on groundwater quality. Elevated total aluminium (up to 11,500 µg/L), iron (up to 11,100 µg/L), manganese (up to 760 µg/L) and chromium (up to 8.4 µg/L) were recorded during periods of high TSS and turbidity, particularly at EPL116 and EPL117. However, dissolved metal concentrations were generally much lower, indicating that most metals were associated with particulate matter rather than dissolved in groundwater. Dissolved arsenic occasionally exceeded the adopted objective of 0.8 µg/L at EPL117, reaching up to 1.2 µg/L, while dissolved copper recorded several exceedances of the 1 µg/L objective, including a notable result of 2,290 µg/L at EPL113 during May 2026. Dissolved zinc also frequently exceeded the guideline value of 2.4 µg/L, although concentrations remained relatively low compared with the copper outlier. The isolated nature of most dissolved metal exceedances, combined with consistently low concentrations of hydrocarbons, cyanide and organic carbon, suggests that groundwater quality is primarily controlled by natural geochemical conditions and sediment entrainment processes. The elevated copper result should be reviewed in subsequent monitoring to determine whether it represents a one-off anomaly, sampling artefact or a developing localised groundwater quality issue.

3.5.3. ANALYTICAL TREND DISCUSSION

EPL106 consistently recorded the highest nutrient concentrations across the Ravine Bay monitoring network and exhibited increasing trends in both TN and NO_x concentrations since October 2024. These elevated nutrient concentrations are consistent with the expected water quality characteristics of a leachate storage basin.

EPL110 nutrient concentrations fluctuate within their historical range of variability, with no clear increasing or decreasing trends evident, apart from an isolate peak of total phosphorus in November of 2025.

At EPL114, NO_x concentrations displayed an increasing trend from mid-2025 through to April 2026, after which concentrations began to decline. Similarly, EPL116 exhibited an increasing trend in NO_x concentrations from the commencement of the monitoring program, reaching a peak in April 2026 before declining in May 2026. Despite this recent decrease, NO_x concentrations remain elevated relative to those observed during the early stages of monitoring.

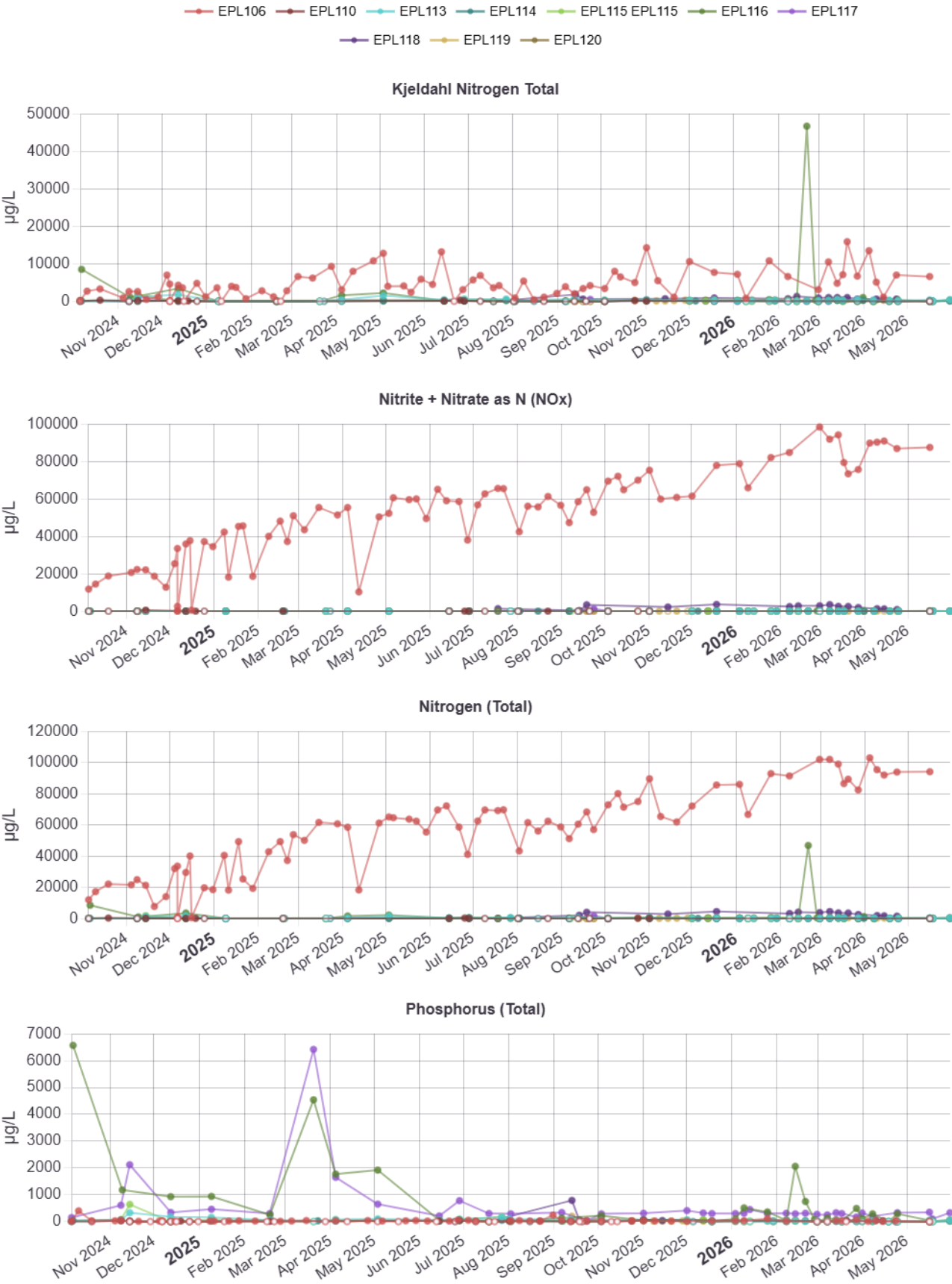


Figure 3-12 Nutrient Trends Ravine Bay Monitoring Zone

3.6. LOBS HOLE – TALBINGO RESERVOIR

Water monitoring within the Talbingo Reservoir monitoring zone comprises six (6) surface water monitoring sites. Monitoring sites EPL10 and EPL11 are located upstream and downstream, respectively of the discharge diffuser location. Monitoring sites EPL107, EPL108, and EPL109 are located within the vicinity of the Ravine Bay Permanent Spoil Emplacement (PSE) area.

3.6.1. RESERVOIR WATER

Table 3-16 Number of Physiochemical Exceedances

WQO Parameter	DO (%)	EC (µS/cm)	pH	Turbidity (NTU)
WQO Objective Value	90-110	20-30	6.5-8	1-20
December	4	4	5	2
January	3	5	4	0
February	5	5	4	2
March	2	5	0	1
April	2	5	0	2
May	5	1	0	3

Table 3-17 Range of Physiochemical Results

	December		January		February		March		April		May	
Parameter	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
pH	8.62	8.77	7.78	8.42	7.93	8.48	7.55	7.90	7.51	7.88	7.31	7.68
EC (µS/cm)	25.0	69.0	45.0	121	42.0	97.0	34.0	86.0	36.0	56.0	20.0	32.0
ORP (mV)	217	236	115	167	90	174	184	223	117	161	172	237
Temperature (°C)	20.0	22.5	20.6	23.3	24.3	26.4	21.1	23.2	17.9	18.6	15.0	15.1
DO % saturation	63.7	98.4	66.1	106	62.4	83.4	82.5	99.7	86.0	93.2	74.7	79.5
Turbidity (NTU)	0.9	1.9	1.4	8.4	1.0	28.8	1.1	21.9	0.1	2.1	0.7	1.1

Physiochemical Results

Water quality monitoring across EPL10, EPL11, EPL107, EPL108 and EPL109 between December 2025 and May 2026 indicates generally good reservoir water quality, with most variations reflecting seasonal changes rather than ongoing environmental impacts. pH was slightly elevated above the water quality objective (6.5–8.0) during summer months, reaching up to 8.77, before declining to within or near guideline values by May. Electrical conductivity was highest during January and February, particularly at EPL10, but showed a consistent downward trend across all sites, with May results approaching or meeting the objective range at several locations. Water temperatures followed expected seasonal patterns, decreasing from summer highs of approximately 26°C to around 15°C in May.

Dissolved oxygen concentrations were below the desired 90–110% saturation range at several sites during the warmer months, particularly at EPL10, EPL11 and EPL108, likely due to higher temperatures reducing oxygen solubility and increasing biological activity. Conditions improved during autumn as temperatures cooled. Turbidity remained very low across most sites and sampling events, indicating good water clarity, with the exception of isolated exceedances at EPL109 in

February (28.8 NTU) and March (21.9 NTU), which may reflect localised runoff or sediment disturbance. Overall, the data show improving water quality trends through autumn, characterised by lower conductivity, improved dissolved oxygen, low turbidity and more stable pH conditions, suggesting no evidence of persistent water quality deterioration within the reservoir.

Laboratory Analytical Results

Laboratory water quality results from December 2025 to May 2026 indicate generally good water quality across the five monitoring locations (EPL10, EPL11, EPL107, EPL108 and EPL109), with most analytes either below reporting limits or well below applicable water quality objectives. Total suspended solids remained below the laboratory reporting limit (<5 mg/L) at all sites and sampling events, indicating very low sediment loads. Hardness showed a gradual decline over the monitoring period, consistent with the reductions observed in field conductivity data and suggesting dilution or seasonal changes in reservoir water chemistry.

Nutrient results were generally low, although some exceedances of guideline values were observed. Ammonia concentrations exceeded the 10 µg/L objective on several occasions, most notably at EPL10 in December (190 µg/L), while total phosphorus exceeded the 10 µg/L objective intermittently across several sites, reaching 60 µg/L at EPL10 in December. Reactive phosphorus remained below detection limits throughout the monitoring period, suggesting limited bioavailable phosphorus in the reservoirs. Total nitrogen concentrations were mostly below the 350 µg/L objective, with only isolated results reaching 400 µg/L during January and February. Elevated nutrient concentrations were generally sporadic rather than persistent, indicating that nutrient enrichment is not widespread but may reflect seasonal runoff, localised catchment inputs or natural biological cycling within the reservoirs.

Metal concentrations were consistently low and generally well below relevant guideline values. Dissolved aluminium, arsenic, copper, iron, lead, manganese, nickel, silver and zinc all complied with their respective objectives where applicable, with many results reported below laboratory detection limits. Dissolved iron peaked at 95 µg/L and manganese remained far below the 1,900 µg/L objective, indicating no evidence of metal contamination associated with project activities. Biological indicators also suggest generally favourable conditions, with chlorophyll-a concentrations remaining low (typically <4 µg/L), indicating limited algal productivity.

Faecal coliform counts were variable across the reporting period with elevated results recorded at EPL10, EPL11 and particularly EPL107 in March (8,600 CFU/100 mL), reflecting the continuous green discolouration and noted algal activity within the waterbody. Overall, the results suggest stable reservoir water quality with no clear evidence of sustained impacts from construction activities, although periodic nutrient spikes and faecal coliform elevations warrant continued monitoring.

3.6.2. ANALYTICAL TREND DISCUSSION

Across all monitoring locations within this monitoring zone, NO_x concentrations have increased since April 2026. However, NO_x concentrations remain low relative to TKN concentrations. Consequently, total nitrogen (TN) concentrations and temporal patterns are largely driven by TKN, as evidenced by the close correspondence between TKN and TN concentrations shown in the figures below. Elevated TKN concentrations were observed at EPL108 and EPL109 during early 2026, with concentrations peaking between February and May 2026 before subsequently declining.

Total phosphorus (TP) concentrations across all monitoring locations generally fluctuated within their historical range of variability, with no consistent long-term increasing or decreasing trends evident. Notable exceptions include an isolated peak at EPL11 in September 2025 and a period of elevated concentrations at EPL10 between September and December 2025. Following these events, concentrations returned to levels broadly consistent with the historical range of variability.

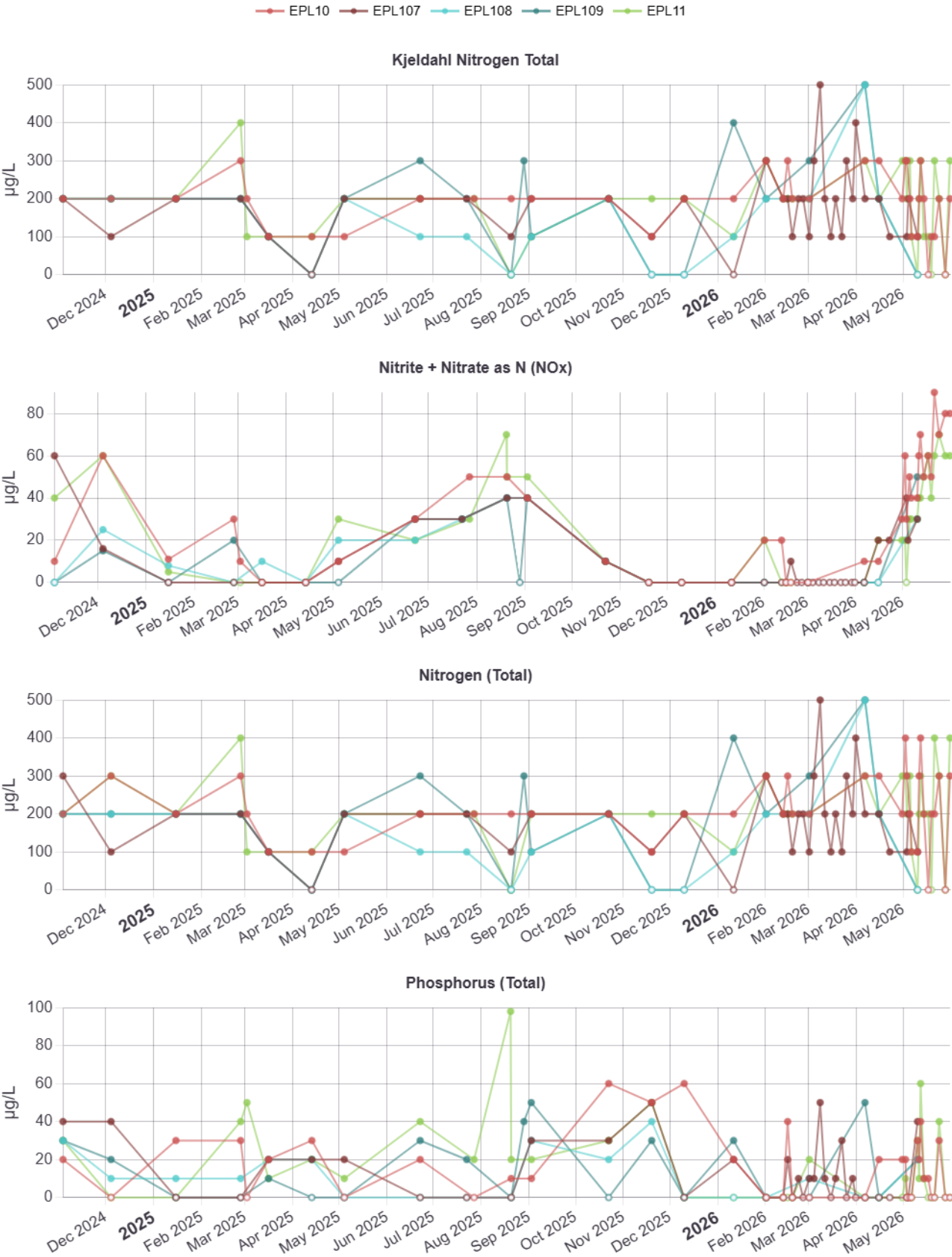


Figure 3-13 Nutrient Trends Talbingo Reservoir

3.7. MARICA EMPLACEMENT AREA

Water monitoring within the Marica monitoring zone comprises four (4) groundwater monitoring sites and six (6) surface water monitoring sites. Groundwater monitoring site EPL72 is located upgradient of the project works, while EPL64, EPL65, and EPL66 are located downgradient. Surface water monitoring site EPL27 is located upstream of the project works, while EPL26 and EPL71 are located downstream. Surface water monitoring sites EPL99, EPL100, and EPL101 monitor leachate basins.

As part of the licence variation implemented on 1 April 2026, downgradient groundwater monitoring bores were added to the monitoring network and assigned the EPL numbers EPL64, EPL65, and EPL66, which had previously been allocated to planned leachate basin monitoring locations at Tantangara. Accordingly, results for these groundwater monitoring bores are reported for April and May 2026 only. Monitoring sites EPL73 and EPL102 were removed from the monitoring network, as the associated wells had been decommissioned in 2025. Figure 3-14 presents the locations of the water monitoring sites within this monitoring zone.

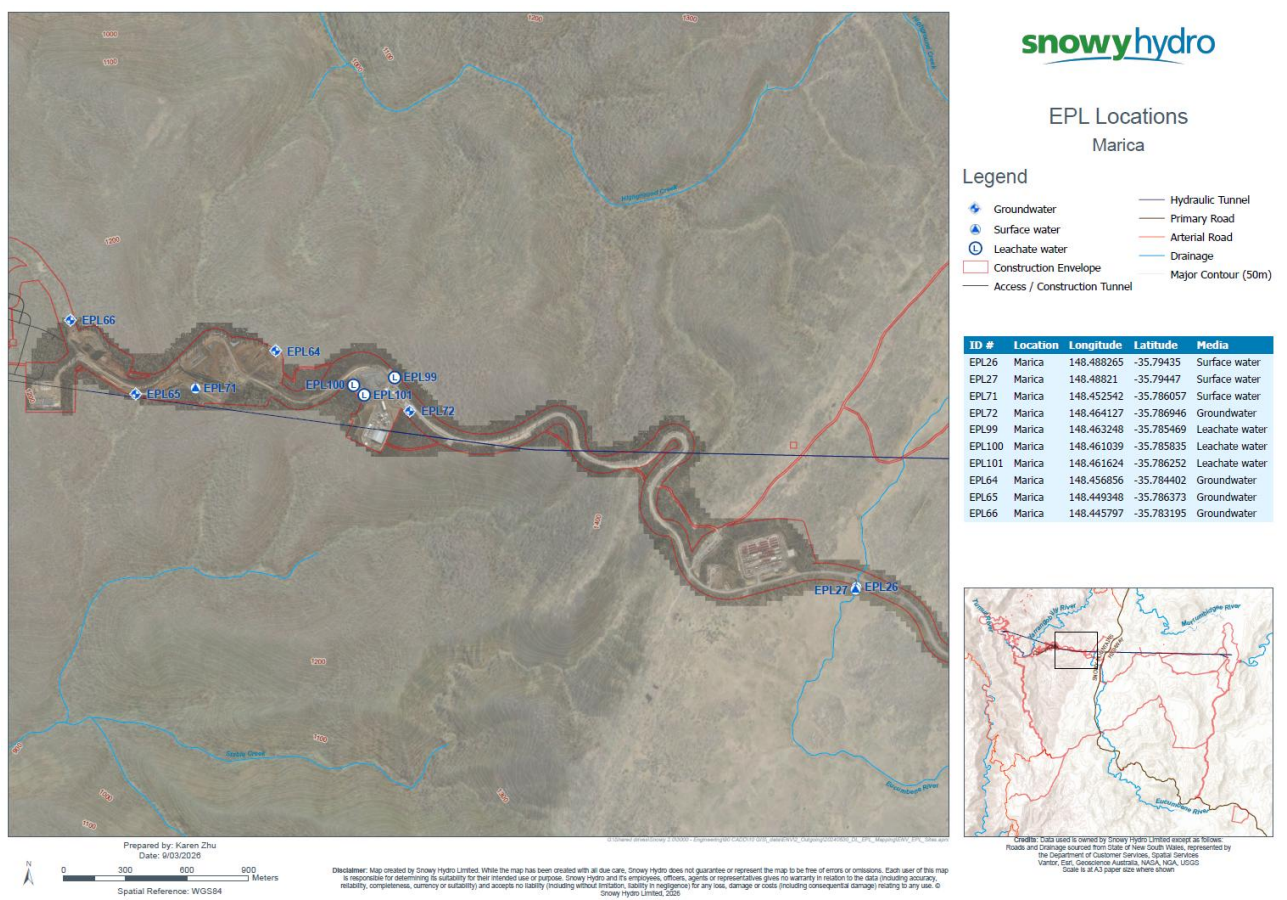


Figure 3-14 Marica Emplacement Monitoring Zone

3.7.1. SURFACE WATER

Physiochemical Results

Surface water monitoring at EPL26, EPL27 and EPL71 between December 2025 and May 2026 showed generally variable but largely acceptable water quality, with several parameters influenced by seasonal conditions and low-flow periods. pH fluctuated between 6.38 and 8.8, with occasional exceedances of the upper guideline value (8.0), particularly at EPL26 and EPL27 during December, March and May. Electrical conductivity was generally within the objective range of 30–350 µS/cm, although low values were recorded at some sites and a single elevated result was observed at EPL71 in April (381 µS/cm). Water temperatures followed expected seasonal trends, declining from approximately 16–18°C in summer to 5–7°C in May. Turbidity remained very low for most sampling events, indicating good water clarity, except for substantial increases at EPL71 in April (198 NTU) and May (243 NTU), which exceeded the water quality objective and suggest significant sediment inputs or stream disturbance.

Dissolved oxygen was the parameter most frequently below the objective range of 90–110% saturation, with results ranging from 46.8% to 94.6%. Lower oxygen levels were particularly evident at EPL27 and EPL71 and may reflect reduced flow conditions, elevated biological oxygen demand or natural stream processes rather than a specific pollution source. The marked turbidity increases at EPL71 during April and May, combined with elevated conductivity in April, may indicate localised runoff, erosion, sediment mobilisation or catchment disturbance affecting this site however this location is upgradient of any works and as such is not affected by construction activities.

Table 3-18 Number of Physiochemical Exceedances

WQO Parameter	DO (%)	EC (µS/cm)	pH	Turbidity (NTU)
WQO Objective Value	90-110	30-350	6.5-8	2-25
December	4	5	5	3
January	4	2	2	3
February	5	2	4	5
March	2	3	4	4
April	5	4	3	5
May	5	3	3	3

Table 3-19 Range of Physiochemical Results

	December		January		February		March		April		May	
Parameter	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
pH	8.44	11.5	6.17	7.62	7.75	9.16	8.29	9.98	6.97	8.60	6.54	8.86
EC (µS/cm)	23.0	658	46.0	921	35.0	826	19.0	589	36.0	996	17.0	422
ORP (mV)	49	191	82	196	107	182	103	186	102	170	168	248
Temperature (°C)	13.9	19.5	11.2	14.1	16.8	24.8	15.4	20.1	9.1	11.5	5.4	7.3
DO % saturation	59.7	100	46.8	87.8	50.8	71.5	74.6	94.6	63.7	92.8	52.5	86.0
Turbidity (NTU)	0.4	39.4	1.7	145	0.2	214	0.7	168	0.9	198	2.0	243

Laboratory Analytical Results

Surface water monitoring undertaken between December 2025 and May 2026 generally indicated good water quality at EPL26 and EPL27, with most analytes remaining at low concentrations and close to or below their respective water quality objectives. Total suspended solids were typically below detection limits (<5 mg/L), nutrients such as ammonia, total nitrogen and total phosphorus were generally low, and hydrocarbons (oil and grease) and cyanide were consistently below laboratory reporting limits. Dissolved metals, including arsenic, copper, lead, nickel and zinc, were either below detection or well below relevant guideline values. Iron, manganese and dissolved aluminium concentrations were also low throughout most of the monitoring period, indicating limited risk of metal-related water quality impacts at the routine monitoring locations.

Higher concentrations of several parameters were recorded at EPL71 during the later monitoring events, particularly in April and May 2026. These included elevated total suspended solids (up to 65 mg/L), total nitrogen (up to 7,000 µg/L), nitrate (up to 6,430 µg/L), total phosphorus (up to 210 µg/L), and substantially increased total aluminium (up to 2,780 µg/L) and total iron (up to 3,140 µg/L). Despite these increases, dissolved metal concentrations generally remained below relevant guideline values, suggesting that many of the elevated metal results were associated with particulate matter rather than dissolved contaminants. Overall, the data indicate that water quality remained generally stable at EPL26 and EPL27 while EPL71 exhibited periods of elevated sediment and nutrient concentrations potentially associated with sediment mobilisation events.

3.7.2. GROUNDWATER

Physiochemical Results

Groundwater quality monitoring between December 2025 and May 2026 indicated generally stable water quality conditions across the monitored bores. pH was mostly within or close to the adopted water quality objective (6.5–8.0), with only isolated low values (5.5–5.8) and one slightly elevated result (8.2). Electrical conductivity was generally low and compliant with the objective range, suggesting relatively low salinity; however, EPL64 recorded elevated conductivity on two occasions (442 µS/cm and 370 µS/cm), indicating higher dissolved mineral concentrations at this location. Oxidation reduction potential values remained positive throughout the monitoring period, indicating oxidising groundwater conditions, while groundwater temperatures (8–15°C) were consistent with expected seasonal conditions.

The main water quality exceedances were associated with dissolved oxygen and turbidity. Dissolved oxygen concentrations were below the nominated objective (90–110% saturation) in most samples, although this is commonly observed in groundwater systems due to limited atmospheric exchange and is not necessarily indicative of environmental impact. Turbidity showed greater variability, with several exceedances of the 25 NTU objective and a maximum result of 115 NTU recorded at EPL72. These elevated turbidity levels may reflect sediment mobilisation during sampling, bore disturbance, or local hydrogeological conditions rather than a widespread decline in groundwater quality. Overall, the results suggest groundwater quality remained broadly consistent during the monitoring period, with no clear indication of project-related impacts, although elevated conductivity at EPL64 and periodic turbidity exceedances warrant ongoing monitoring.

Table 3-20 Number of Physiochemical Exceedances

WQO Parameter	DO (%)	EC (µS/cm)	pH	Turbidity (NTU)
WQO Objective Value	90-110	30-350	6.5-8	2-25
December	1	0	0	0
January	1	0	1	0
February	1	0	1	0
March	0	0	1	1
April	3	1	2	3
May	2	1	0	1

Table 3-21 Range of Physiochemical Results

	December		January		February		March		April		May	
Parameter	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
pH	6.6	6.6	6.2	6.2	6.5	6.5	8.2	8.2	5.5	6.6	7.5	7.8
EC (µS/cm)	94.0	94.0	97.0	97.0	73.0	73.0	78.0	78.0	93.0	442	66.0	370
ORP (mV)	229	229	254	254	209	209	167	167	163	326	156	203
Temperature (°C)	12.6	12.6	13.3	13.3	15.0	15.0	13.5	13.5	10.3	11.0	8.0	8.5
DO % saturation	50.3	50.3	111	111	33.0	33.0	104	104	21.0	61.7	63.2	82.3
Turbidity (NTU)	17.0	17.0	17.3	17.3	12.7	12.7	62.9	62.9	26.5	115	18.2	30.1

Laboratory Analytical Results

Groundwater monitoring undertaken between December 2025 and May 2026 identified elevated concentrations of several nutrients and metals relative to the adopted water quality objectives, although the results varied considerably between monitoring locations. Total nitrogen exceeded the objective of 250 µg/L in most samples, with concentrations ranging from 300 to 1,000 µg/L, while nitrate and NOx concentrations were also elevated, particularly at EPL72 where NOx reached 690 µg/L. Total phosphorus consistently exceeded the 20 µg/L objective, with results between 30 and 90 µg/L, and reactive phosphorus frequently exceeded the 15 µg/L guideline. Total suspended solids were generally low, although elevated concentrations of 63 mg/L (February) and 54 mg/L (May) were recorded at EPL72, indicating periodic mobilisation of suspended sediments within the bore or surrounding groundwater system.

Metals monitoring showed a clear distinction between total and dissolved concentrations. Total aluminium, iron, manganese and chromium were elevated in several samples, particularly at EPL72 and EPL66, with total aluminium reaching 1,140 µg/L and total iron reaching 1,350 µg/L. However, dissolved iron remained below detection (<2 µg/L) in all samples and dissolved aluminium generally remained below the 27 µg/L guideline, indicating that most metal concentrations were associated with particulate matter rather than dissolved contaminants. Dissolved arsenic exceeded the 0.8 µg/L guideline at EPL64 and EPL66 (7.9 and 7.4 µg/L respectively), while dissolved copper exceeded its 1 µg/L objective at all monitored locations, with concentrations up to 34.9 µg/L. Dissolved zinc also exceeded the 2.4 µg/L objective in most samples, ranging from 4 to 12 µg/L.

3.7.3. ANALYTICAL TREND DISCUSSION

TN and TKN concentrations at EPL72 showed instability during the reporting period, peaking during the April sampling round. This concentration is now declining and is being monitored going forward. All other groundwater nutrient concentrations have remained stable.

Ammonia as N has seen an increase over the last three sampling rounds, although are now trending downwards. These locations are a known area for hard-hooved animals to access drinking water, and signs of scat are often noted around the area, contributing to elevated concentrations of Ammonia. There are no construction works ongoing near these points.

Chemistry Graph

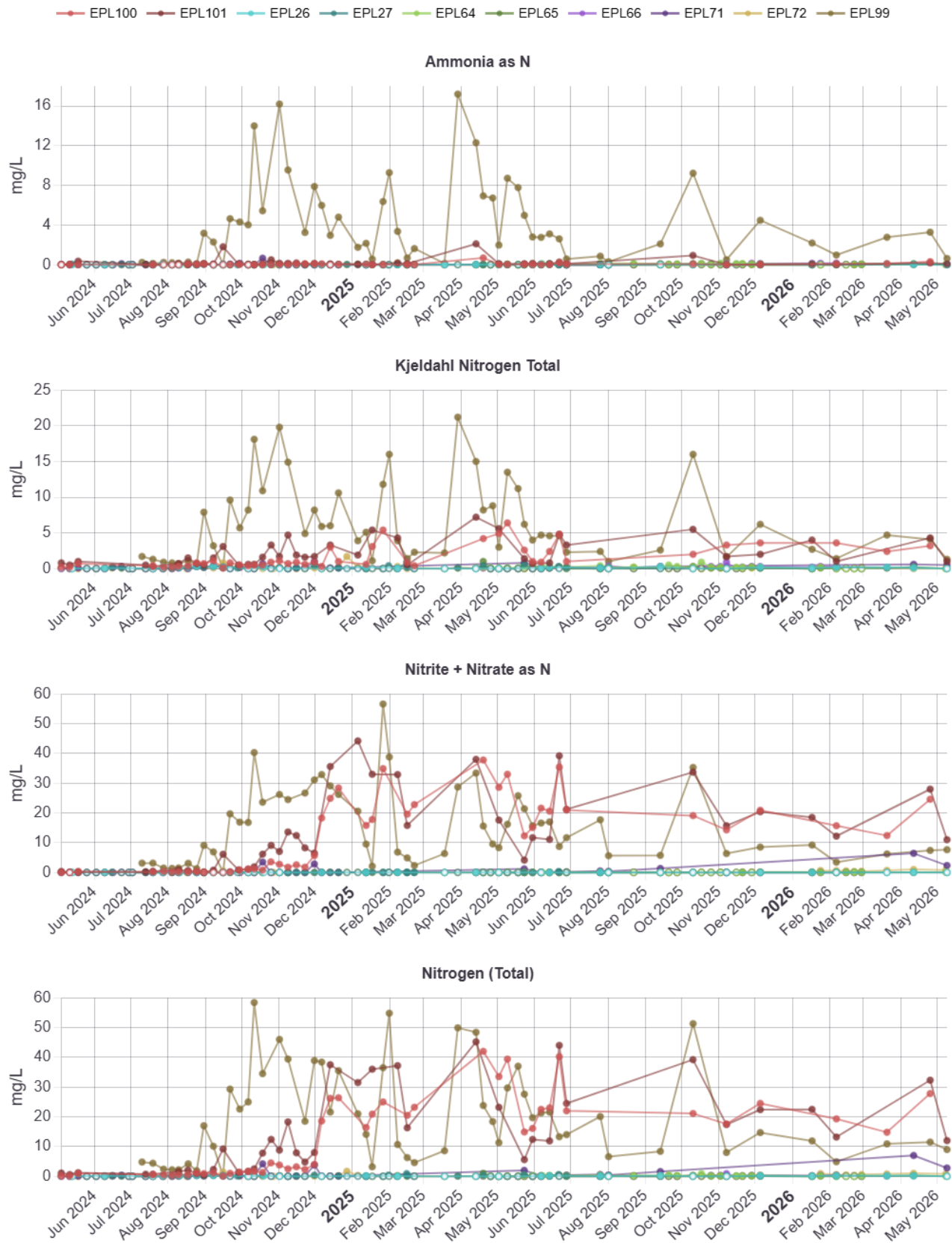


Figure 3-15 Nutrient Trends Marica

The water monitoring network within the Tantangara Permanent Spoil Emplacement Area comprises six (6) groundwater monitoring bores. EPL70 and EPL103 are the two upgradient locations whilst EPL68, EPL69, EPL104 and EPL105 are downgradient.

Figure 3-16 Tantangara PSE Monitoring Zone

3.8.1. GROUNDWATER

Table 3-22 Number of Physiochemical Exceedances

WQO Parameter	DO (%)	EC (μS/cm)	pH	Turbidity (NTU)
WQO Objective Value	90-110	30-350	6.5-8	2-25
December	6	3	5	2
January	6	1	5	2
February	6	3	2	3
March	6	2	5	2
April	6	2	6	2
May	6	2	4	3

Table 3-23 Range of Physiochemical Results

	December		January		February		March		April		May	
Parameter	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
pH	5.83	6.69	5.32	6.88	6.01	7.38	4.81	6.78	3.44	5.59	6.02	7.23
EC (µS/cm)	9.0	488	23.0	168	21.0	395	1.2	194	20.0	386	14.0	111
ORP (mV)	193	321	156	289	185	254	190	329	215	353	242	285
Temperature (°C)	12.1	17.5	14.5	16.0	12.2	21.2	11.0	16.6	13.2	15.2	11.7	13.7
DO % saturation	17.4	58.0	46.7	111	20.2	78.9	47.8	72.1	34.9	60.8	27.6	52.9
Turbidity (NTU)	1.2	162	4.6	82.4	3.7	296	3.0	95.8	2.8	96.9	2.1	322

Physiochemical Results

Monitoring at the Tantangara PSE area reported relatively stable groundwater conditions, although several locations exhibited consistently acidic characteristics. pH values ranged from 3.44 to 7.38, with most results at EPL68, EPL69, EPL104 and EPL105 below the nominated water quality objective of 6.5–8.0. The lowest pH result (3.44) was recorded at EPL68 during April 2026, indicating strongly acidic groundwater conditions at this location. Electrical conductivity (EC) varied from 1.2 to 488 µS/cm, with generally low conductivity at EPL68 and EPL69 and higher values at EPL103 and EPL105. The combination of low pH and low conductivity at some bores suggests naturally dilute groundwater systems influenced by local geology and recharge conditions rather than elevated dissolved salt concentrations.

Dissolved oxygen (DO) concentrations were consistently below the guideline range of 90–110% saturation, with most results ranging between approximately 17% and 79%. Only one result exceeded the guideline value (111.4% at EPL70 in January 2026). These low oxygen levels are typical of groundwater environments where limited atmospheric exchange and natural biological processes consume oxygen. Oxidation-reduction potential (ORP) values remained positive throughout the monitoring period (156–353 mV), indicating generally oxidising groundwater conditions despite the low dissolved oxygen concentrations. This suggests that the groundwater system remains chemically stable and capable of maintaining oxidised forms of many dissolved constituents.

Turbidity results showed considerable variability between locations and over time, ranging from 1.2 to 322 NTU. EPL69, EPL104 and EPL105 recorded the highest and most frequent turbidity exceedances, including results of 162 NTU, 296 NTU and 322 NTU. In contrast, EPL68 generally recorded low turbidity despite its acidic nature. The elevated turbidity at several sites likely reflects sediment mobilisation within monitoring bores, fine-grained geological materials, or groundwater recharge events rather than widespread groundwater quality deterioration. Overall, the data indicate that groundwater quality is primarily controlled by natural hydrogeological conditions with acidic groundwater present at several locations and intermittent sediment-related impacts driving periods of elevated turbidity.

Laboratory Analytical Results

Total suspended solids (TSS) were highly variable, ranging from below the reporting limit to 461 mg/L, with the highest concentrations recorded at EPL104 and EPL105. Hardness values were generally low, particularly at EPL68 and EPL69, indicating soft, relatively dilute groundwater with limited mineralisation. The elevated TSS concentrations align with periods of higher turbidity observed in field monitoring, suggesting that sediment mobilisation within the aquifer or monitoring bores is a key driver of variability rather than changes in dissolved groundwater quality.

Nutrient results show consistently elevated nitrogen concentrations relative to the total nitrogen objective of 250 µg/L. Total nitrogen frequently ranged between 600 and 4,900 µg/L, with the highest concentrations recorded at EPL105. These elevated results were principally driven by nitrate (NO₃), with NO_x concentrations reaching up to 4,040 µg/L, while ammonia concentrations remained generally low. The dominance of nitrate over ammonia suggests oxidising groundwater conditions, consistent with the positive ORP values recorded in the field data. Phosphorus concentrations were more variable, with total phosphorus occasionally reaching 400 µg/L; however, reactive phosphorus was generally low or below detection limits, indicating that much of the phosphorus is likely associated with suspended particles rather than dissolved nutrients. This pattern suggests naturally occurring nutrient enrichment or catchment-scale influences rather than evidence of recent contamination.

Metal monitoring showed elevated total concentrations of aluminium, iron, chromium, manganese and other metals at several locations, particularly EPL69 and EPL70. Total aluminium reached 7,230 µg/L and total iron reached 7,150 µg/L; however, dissolved concentrations for these metals were generally very low and well below guideline values. This indicates that the majority of metals are particulate-bound and associated with suspended sediments rather than present in dissolved form. Dissolved arsenic, lead, iron, manganese and nickel were generally below applicable criteria, while dissolved copper and zinc occasionally exceeded guideline values. Notable zinc exceedances were recorded at EPL103 (up to 472 µg/L) and EPL104 (up to 265 µg/L), and dissolved copper reached 36.4 µg/L at EPL103. These elevated dissolved metal concentrations appear localised and isolated rather than widespread. The absence of detectable cyanide, oil and grease, and dissolved organic carbon further indicates that groundwater quality is not showing evidence of hydrocarbon or industrial contamination.

3.8.1. ANALYTICAL TREND DISCUSSION

Across all groundwater monitoring locations downstream of the project works within this monitoring zone, total nitrogen (TN) concentrations were largely driven by nitrite and nitrate (NO_x), with TN closely mirroring NO_x trends.

EPL105 consistently recorded the highest TKN, NO_x and TN concentrations across the monitoring network in this zone. A pronounced increase in NO_x and TN concentrations was observed during February and March 2026, with TN concentrations reaching approximately 12,000 µg/L before declining to lower levels for the remainder of the monitoring period. Although of lower magnitude than those observed at EPL105, NO_x and NT concentrations at EPL104 have also shown an increasing trend specially since mid-2025.

In contrast, upstream monitoring locations EPL70 and EPL103, while frequently exceeding the WQOs, have generally fluctuated within their historical range of variability and do not exhibit the increasing trends observed at the downstream monitoring locations.

The elevated nutrient concentrations and increasing trends recorded at the downgradient monitoring locations indicate that water quality in this zone has been affected by project activities. Accordingly, ongoing investigations and remediation actions will be undertaken to assess the source, extent and potential risks associated with these impacts.

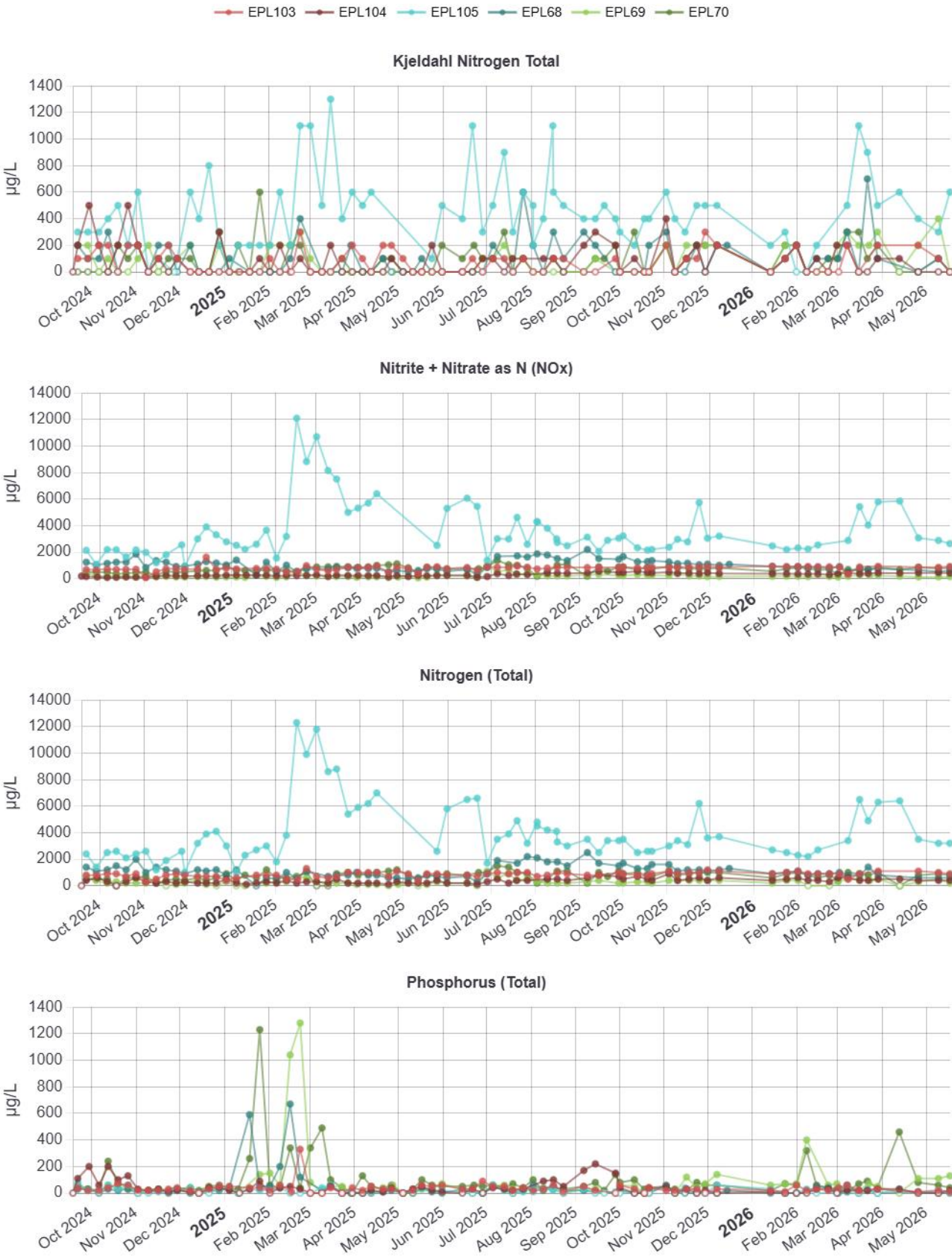


Figure 3-17 Nutrient Trends Tantangara PSE

3.9. TANTANGARA – CREEKS AND RIVERS

Water monitoring within the Tantangara Creeks and Rivers monitoring zone comprises five (5) surface water monitoring locations. EPL30 and EPL31 are situated within Kelly’s Plain Creek, whilst EPL33 is situated within the Murrumbidgee River corridor downgradient from Tangara Intake and EPL34 / EPL35 are located within Nungar creek above gradient to any works.

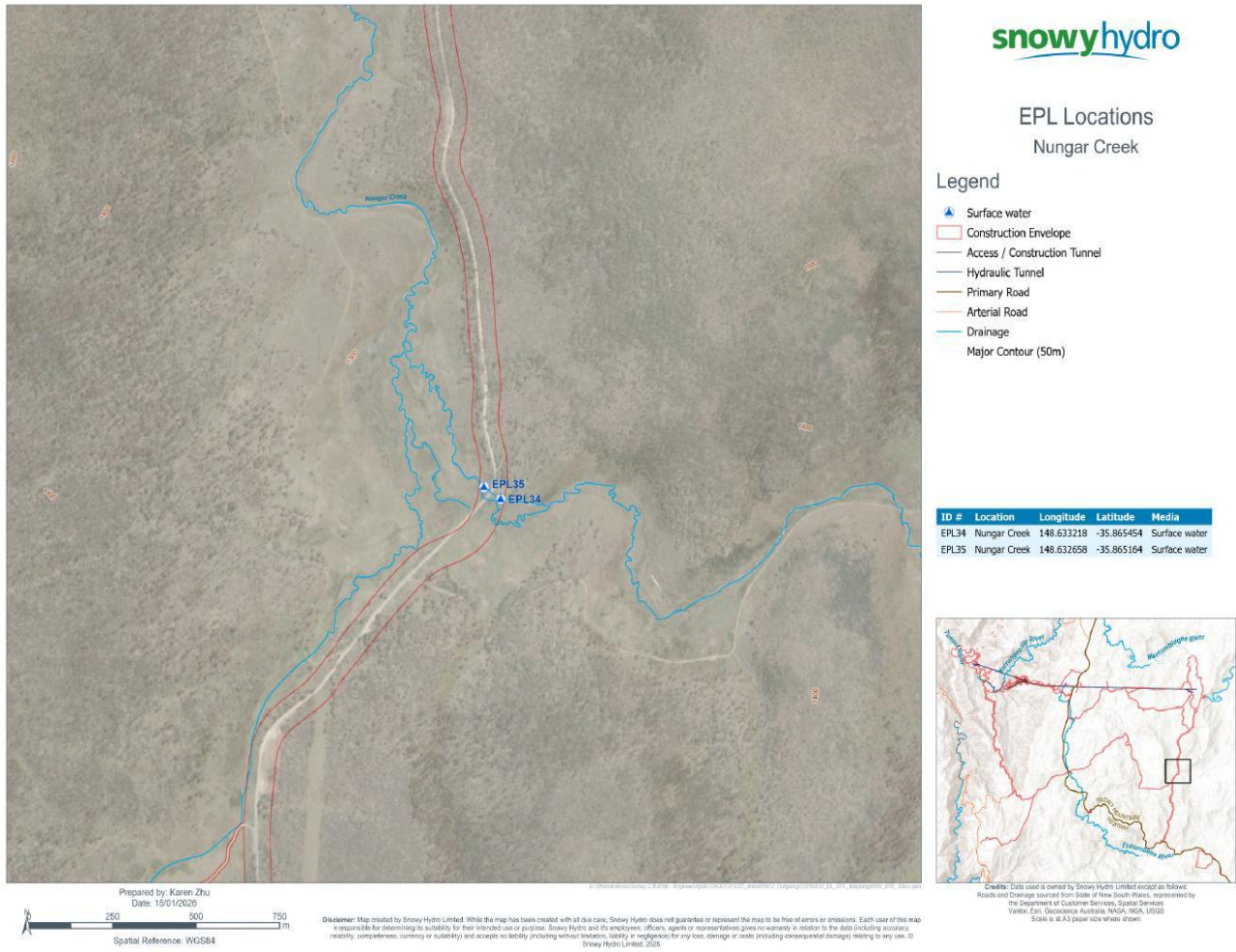


Figure 3-18 Nungar Creek Monitoring Locations

3.9.1. SURFACE WATER

Physiochemical Results

Surface water monitoring from December 2025 to May 2026 showed generally good water quality across EPL30, EPL31, EPL33, EPL34 and EPL35, with pH values predominantly within or close to the target range of 6.5–8.0. Isolated exceedances were recorded at EPL34 (up to pH 8.5) and EPL33 (pH 9.3 in April), while one low pH result of 6.1 was recorded in March. Electrical conductivity remained consistently low (10–55 µS/cm), reflecting low salinity and limited dissolved mineral content across the monitoring locations. Oxidation reduction potential values remained positive throughout the monitoring period, indicating predominantly oxidising conditions typical of well-aerated surface waters, while seasonal temperature variation was evident, ranging from approximately 3°C in April to 20°C during summer monitoring.

Dissolved oxygen concentrations were frequently below the adopted objective of 90–110% saturation, with most results ranging between 49% and 87%. Only a small number of samples achieved or approached the objective, including EPL34 in January (90.1%) and EPL31 in March (99.1%). While these results represent departures from the adopted guideline, they may reflect a combination of seasonal temperature effects, stream flow conditions and natural biological processes rather than indicating water quality degradation. The consistently positive ORP values and generally low turbidity support the interpretation that the waterways remained largely in an aerobic condition throughout the monitoring period.

Turbidity was generally low and within the 2–25 NTU objective, with most results below 20 NTU. However, several exceedances were recorded, including EPL33 in February (25.8 NTU), EPL30 in March (25.2 NTU) and a more substantial exceedance at EPL33 in April (42.1 NTU). These elevated turbidity results likely reflect short-term sediment mobilisation associated with rainfall, runoff or local disturbance events rather than a persistent decline in water quality. Overall, the monitoring data indicate that surface water quality remained relatively stable across the reporting period, characterised by low salinity, generally acceptable pH and turbidity, and no evidence of sustained deterioration, although periodic turbidity increases and consistently low dissolved oxygen concentrations warrant continued observation.

Table 3-24 Number of Physiochemical Exceedances

WQO Parameter	DO (%)	EC (µS/cm)	pH	Turbidity (NTU)
WQO Objective Value	90-110	30-350	6.5-8	2-25
December	5	5	1	0
January	4	1	0	4
February	5	2	2	1
March	4	1	4	3
April	5	2	0	0
May	5	4	2	0

Table 3-25 Range of Physiochemical Results

	December		January		February		March		April		May	
Parameter	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
pH	7.72	8.05	7.29	7.84	7.03	8.27	6.09	9.32	6.63	7.04	7.84	8.36
EC (µS/cm)	10.0	18.0	29.0	41.0	26.0	41.0	21.0	46.0	25.0	55.0	13.0	31.0
ORP (mV)	238	256	173	197	158	239	134	250	94	193	191	216
Temperature (°C)	10.3	15.3	14.5	19.8	10.4	17.4	16.7	18.1	2.9	11.1	5.9	9.5
DO % saturation	65.2	83.5	63.7	90.1	48.6	68.7	64.7	99.1	63.8	86.9	52.5	78.7
Turbidity (NTU)	2.8	9.9	0.4	22.1	2.6	25.8	0.7	42.1	3.4	18.6	3.8	12.7

Laboratory Analytical Results

Surface water laboratory monitoring undertaken between December 2025 and May 2026 indicated generally good water quality across EPL30, EPL31, EPL33, EPL34 and EPL35, with most analytes either below detection limits or at relatively low concentrations. Total suspended solids were typically below 5 mg/L, with only isolated elevations recorded at EPL30 (8 mg/L) and EPL34 (31 mg/L). Hydrocarbons (oil and grease) and cyanide were consistently below reporting limits, while hardness remained low, reflecting the dilute nature of the receiving waters. Nutrient concentrations were generally low to moderate, although total nitrogen frequently exceeded the adopted objective of 250 µg/L, particularly during April when concentrations reached 1,000 µg/L at EPL30 and 600 µg/L at EPL31. Total phosphorus also periodically exceeded the 20 µg/L objective, with concentrations up to 70 µg/L, indicating intermittent nutrient enrichment within the monitored waterways.

Metal results showed that dissolved concentrations were generally well controlled and below relevant guideline values. Dissolved arsenic, lead, nickel, manganese and iron remained below their respective objectives throughout the monitoring period, while copper was consistently below detection limits. Dissolved aluminium occasionally exceeded the 27 µg/L guideline, particularly at EPL33 where concentrations reached 42 µg/L on several occasions and 38–42 µg/L during later monitoring rounds. Dissolved chromium was consistently above the very low guideline value of 0.01 µg/L due to laboratory reporting limits; however, concentrations remained extremely low (<0.2 µg/L in most samples). Total metal concentrations recorded in April and May, including aluminium, iron and manganese, increased at several locations, particularly EPL33 and EPL34, suggesting the presence of suspended particulate material rather than elevated dissolved contaminants.

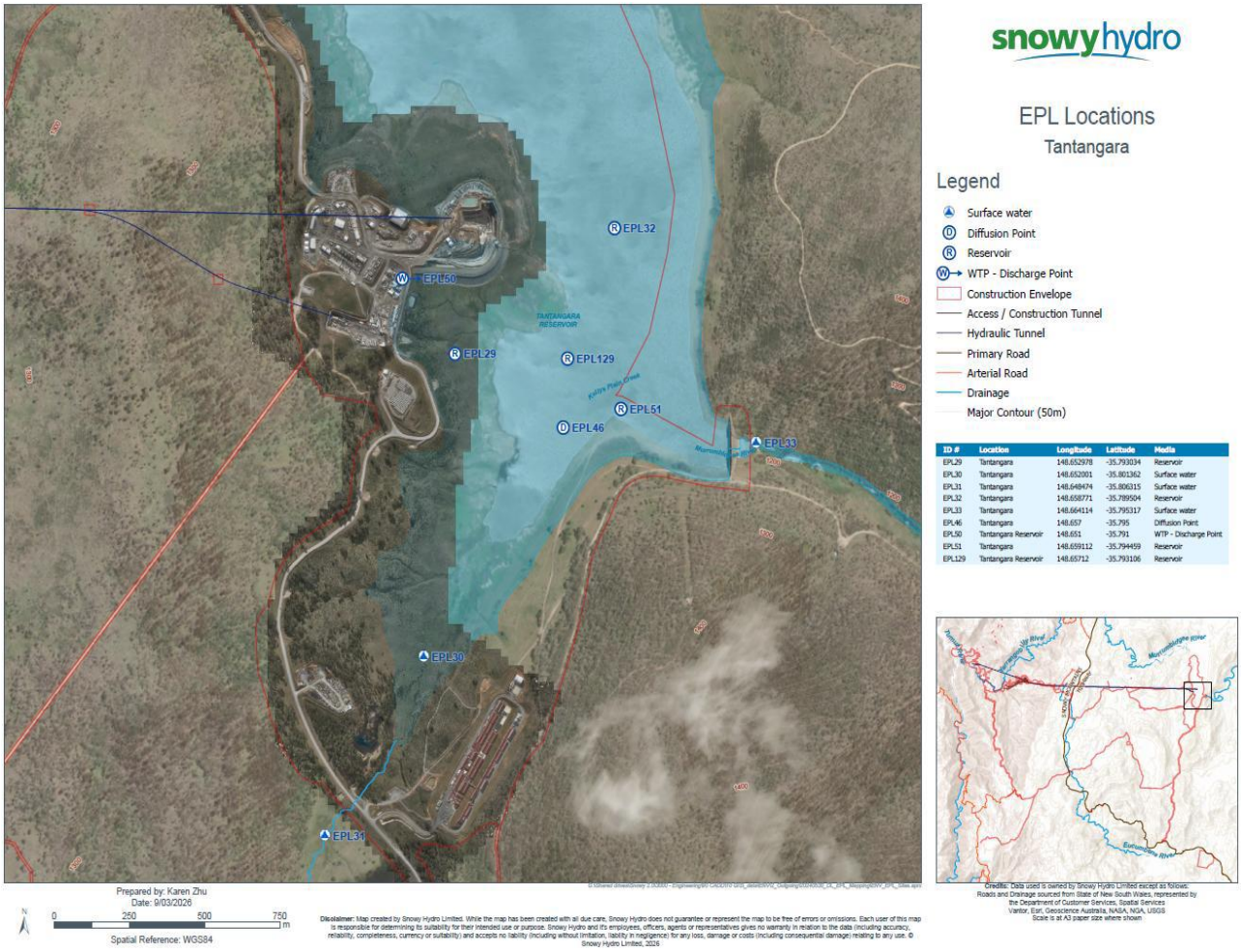
Overall, the data indicate that surface water quality remained relatively stable and consistent with a low-salinity upland stream environment, with no evidence of hydrocarbon contamination or widespread dissolved metal impacts. The most notable trends were periodic increases in nutrients, suspended solids and total metals, particularly during April and May, which likely reflect natural runoff events, sediment mobilisation and catchment disturbance rather than persistent contamination. Elevated total nitrogen and phosphorus concentrations, together with occasional increases in chlorophyll-a at EPL33 (up to 13 µg/L), suggest episodic nutrient inputs that may stimulate biological productivity under favourable conditions. However, because dissolved contaminant concentrations remained low and exceedances were generally isolated or associated with particulate matter, the results do not indicate a sustained decline in surface water quality attributable to project activities.

3.9.2. ANALYTICAL TREND DISCUSSION

Nutrient concentrations within the creeks and rivers of Tantangara showed relative stability. Elevated concentrations of Total Nitrogen and Total Kjeldahl Nitrogen have peaked at EPL33 during March and April, that is now declining. NOx has remained stable over the period of reporting. Ammonia as N has spiked at EPL33 and EPL34 in line with TKN and TN, whereas EPL31 has spiked individually; all have declined during the latest sampling rounds.

3.10. TANTANGARA – RESERVOIR

The Tantangara Reservoir Monitoring Zone comprises seven (7) locations. EPL28 and EPL40 comprise the above gradient monitoring locations whilst the remaining locations are situated within downgradient of works.



3.10.1. RESERVOIR WATER

Physiochemical Results

Monitoring within Tantangara Reservoir between December 2025 and May 2026 indicated generally stable water quality, with pH values remaining within the adopted objective range (6.5–8.0) for most monitoring events. Notable exceptions occurred during March and April, when elevated pH values were recorded at EPL39, EPL40 and EPL51 (up to 9.94), suggesting periods of increased algal productivity or photosynthetic activity within the reservoirs. Electrical conductivity remained relatively low throughout the monitoring period, generally ranging from 16 to 35 µS/cm, indicating low salinity and limited dissolved mineral content. Conductivity was closest to the objective range (20–30 µS/cm) during summer but declined across all sites during May, reflecting seasonal dilution and inflow influences.

Dissolved oxygen concentrations showed a clear seasonal pattern. Results during December and January were generally close to the objective range of 90–110% saturation, with several sites achieving compliance. However, dissolved oxygen progressively declined through February and March, reaching lows of approximately 55–67% saturation at several locations before partially recovering during April and May. The lower dissolved oxygen concentrations likely reflect seasonal stratification, elevated biological oxygen demand and reduced mixing within reservoir waters. Oxidation reduction potential remained positive throughout the monitoring period (approximately 111–238 mV), indicating predominantly oxidising conditions and no evidence of reducing environments.

Turbidity exhibited the greatest variability across the dataset. Elevated turbidity was recorded during December at most sites, with values around 52–55 NTU, substantially exceeding the 1–20 NTU objective and suggesting widespread suspended sediment or naturally elevated particulate matter within the reservoirs. Turbidity improved considerably during January and February, with most results below 10 NTU, before increasing again at selected locations during March and April, including EPL39, EPL40 and EPL51 where values reached between 39 and 58 NTU. By May, most sites had returned to relatively low turbidity levels, although some elevated results remained. Overall, the data indicate that reservoir water quality was generally stable, with low salinity and acceptable pH for most of the monitoring period, while periodic increases in turbidity and elevated pH events appear to be linked to seasonal processes, catchment inflows and biological activity rather than persistent water quality deterioration.

Table 3-26 Number of Physiochemical Exceedances

WQO Parameter	DO (%)	EC (µS/cm)	pH	Turbidity (NTU)
WQO Objective Value	90-110	20-30	6.5-8	1-20
December	4	4	1	6
January	7	1	0	1
February	7	1	0	0
March	3	6	7	6
April	7	2	1	1
May	7	6	1	2

Table 3-27 Range of Physiochemical Exceedances

	December		January		February		March		April		May	
Parameter	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
pH	7.22	8.11	6.78	7.67	7.07	7.91	6.27	9.94	6.31	7.71	7.21	8.39
EC (µS/cm)	19.0	22.0	25.9	30.2	26.0	31.0	29.0	35.0	25.0	31.0	15.0	21.0
ORP (mV)	120	176	113	196	200	238	111	215	170	208	116	228
Temperature (°C)	13.5	15.0	19.7	24.1	18.0	19.5	16.7	17.8	9.6	13.5	8.5	11.2
DO % saturation	86.3	91.7	75.0	88.4	55.3	73.6	72.1	95.0	73.4	83.8	62.6	82.6
Turbidity (NTU)	7.6	54.5	2.8	35.5	3.1	7.1	5.8	58.2	2.0	50.3	5.7	49.5

Laboratory Analytical Results

Analytical monitoring of Tantangara Reservoir between December 2025 and May 2026 indicated generally low contaminant levels, with hydrocarbons (oil and grease), cyanide, lead, nickel, silver and zinc consistently below guideline values or laboratory detection limits. Total suspended solids were typically low (<5–16 mg/L), although isolated elevations were recorded, including 40 mg/L at EPL39 in December and 16 mg/L at EPL39 in May, suggesting occasional sediment mobilisation. Hardness remained low and relatively stable across all sites (generally 2–9 mg/L as CaCO₃), reflecting the naturally dilute nature of reservoir waters. Nutrient monitoring showed persistent exceedances of the adopted objectives for ammonia, total nitrogen and total phosphorus. Ammonia concentrations frequently exceeded the 10 µg/L objective, reaching up to 290 µg/L, while total nitrogen increased markedly during April, with concentrations up to 1,700 µg/L at EPL40. Total phosphorus also regularly exceeded the 10 µg/L objective, with concentrations ranging from 20 to 90 µg/L across many sites.

Metal results were generally low in dissolved form, indicating limited bioavailable contamination. Dissolved arsenic, iron, manganese, lead, nickel, silver and zinc remained well below their respective guideline values throughout the monitoring period. Dissolved aluminium approached but generally remained below the 55 µg/L guideline, with concentrations typically between 13 and 46 µg/L. Total aluminium, iron and manganese concentrations were substantially higher than dissolved concentrations, particularly during April and May when total iron reached 1,430 µg/L and total aluminium reached 745 µg/L. This pattern indicates that metal concentrations were predominately associated with suspended particulate matter rather than dissolved contaminants. Copper was the only dissolved metal to exceed its guideline value (1.4 µg/L), with several exceedances recorded during December, including concentrations up to 3.6 µg/L at EPL39; however, all subsequent monitoring rounds reported copper below detection limits.

Biological and organic indicators suggest periods of increased productivity within the reservoir system. Chlorophyll-a concentrations ranged from less than 1 µg/L to 18 µg/L, with elevated values observed at several sites during summer and autumn, corresponding with the elevated pH values recorded in the field monitoring data. Dissolved organic carbon remained relatively low and stable (2–4 mg/L), while faecal coliform counts were generally low but showed occasional spikes, including 85 CFU/100 mL and 160 CFU/100 mL at EPL29, which may reflect wildlife activity, catchment runoff or localised inflows. Overall, the data indicate that water quality within Tantangara Reservoir remained broadly consistent with a low-mineral upland water body, with the main water quality issues being elevated nutrients and periodic increases in algal productivity. The strong relationship between elevated nutrients, increased chlorophyll-a concentrations and high pH events suggest seasonal biological activity as a key driver of observed water quality trends, rather than evidence of widespread contamination associated with project activities.

3.10.2. ANALYTICAL TREND DISCUSSION

Nutrient concentrations within Tantangara reservoir exhibited considerable temporal variability. Trend graphs show that total nitrogen concentrations were largely driven by Total Kjeldahl Nitrogen, with TN closely mirroring TKN patterns since the beginning of the monitoring program.

Elevated TKN and TN concentrations were observed across all reservoir monitoring locations during March and early April 2026, with concentrations peaking concurrently across the reservoir before subsequently declining. The exception was EPL39, which monitors the confluence of Nungar creek and reservoir and was sampled from the creek.

Total phosphorus concentrations similarly fluctuated within their historical range of variability and did not display any persistent trends. Although several isolated TP peaks were recorded, concentrations generally returned to background levels following these events. Overall, the monitoring data indicate that nutrient concentrations within the reservoir remain characterised by natural temporal variability and episodic events rather than sustained directional trends.

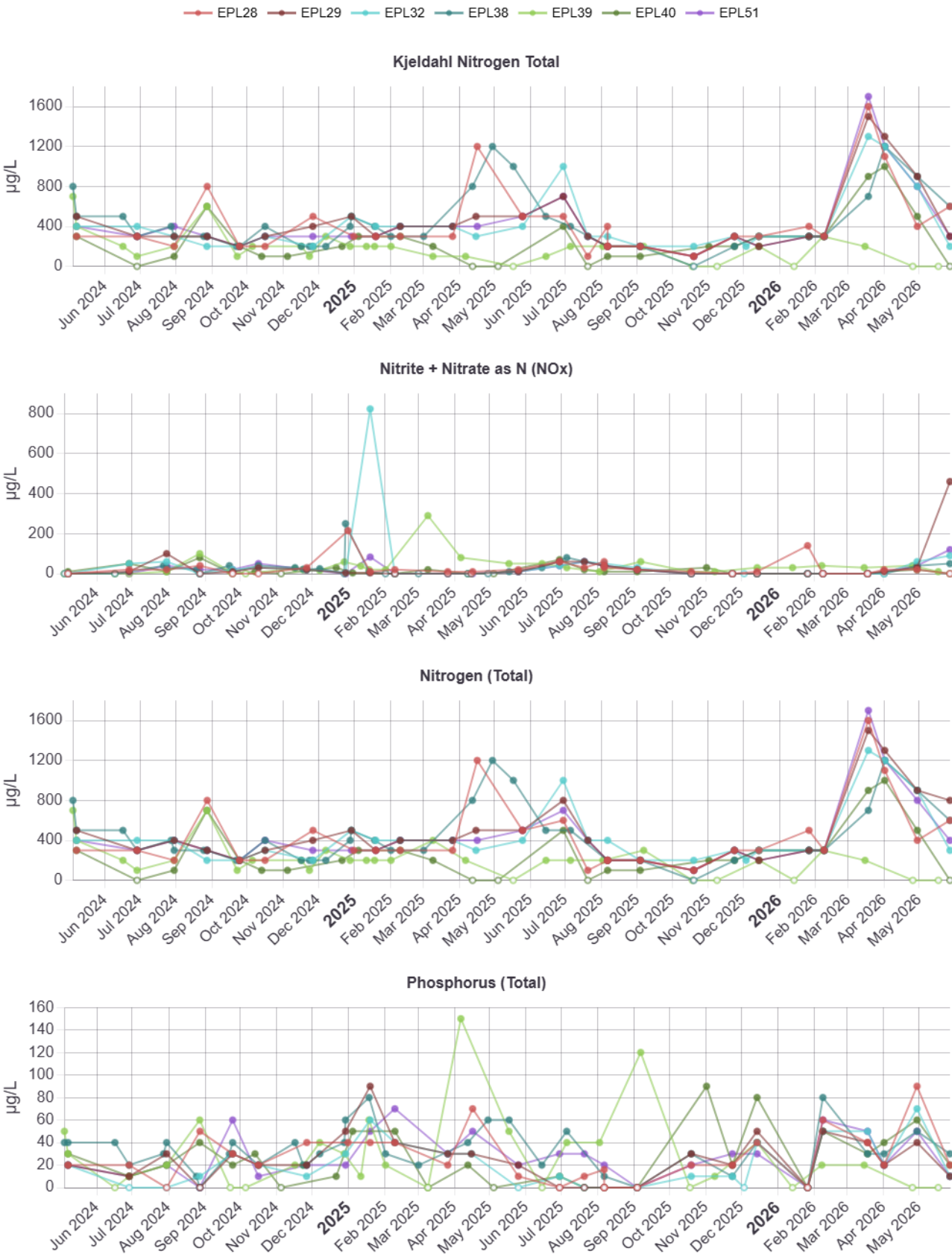


Figure 3-20 Nutrient Trend Tantangara Reservoir

3.11. ROCK FOREST – EMPLACEMENT AREA

Water monitoring within the Rock Forest monitoring zone comprises five (5) groundwater monitoring sites and three (3) surface water monitoring sites. Groundwater monitoring bores EPL123 and EPL124 are located upgradient of the project works, while EPL125, EPL126, and EPL127 are located downgradient. Surface water monitoring site EPL36 is located upstream of the project works, while EPL37 is located downstream. Surface water monitoring site EPL76 is intended to be a leachate basin once spoiling occurs.

The licence variation implemented on 1 April 2026 introduced groundwater monitoring sites EPL123, EPL124, EPL125, EPL126, and EPL127 to the monitoring network. Accordingly, results for these groundwater monitoring sites are reported for April and May 2026 only. Figure 7 presents the locations of the water monitoring sites within this monitoring zone.

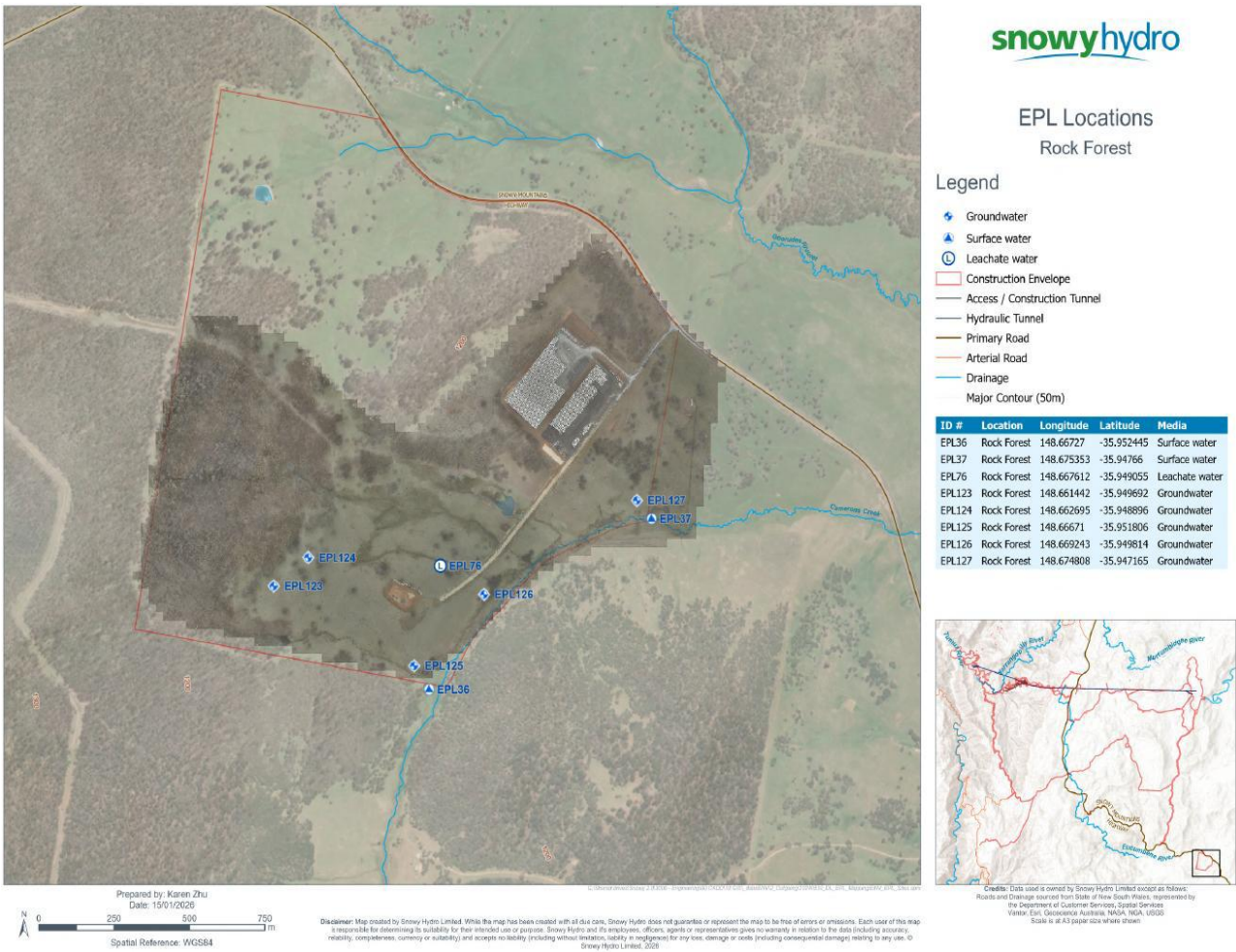


Figure 3-21 Rock Forest Monitoring Zone

3.11.1. SURFACE WATER

Physiochemical Results

Table 3-28 Number of Physiochemical Exceedances

WQO Parameter	DO (%)	EC (µS/cm)	pH	Turbidity (NTU)
WQO Objective Value	90-110	30-350	6.5-8	2-25
December	2	0	0	0
January	2	0	1	1
February	2	0	0	1
March	2	0	1	0
April	2	0	0	1
May	2	1	0	1

Table 3-29 Range of Physiochemical Results

	December		January		February		March		April		May	
Parameter	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
pH	6.97	7.97	6.35	6.57	6.98	7.13	6.91	8.38	7.33	7.89	7.71	7.87
EC (µS/cm)	33.0	39.0	48.0	60.0	45.0	48.0	31.0	98.0	36.0	50.0	27.0	52.0
ORP (mV)	219	232	178	206	170	190	125	136	159	185	185	199
Temperature (°C)	17.6	23.7	18.5	23.0	16.0	23.9	15.4	15.5	11.2	14.5	7.4	8.0
DO % saturation	58.0	62.0	65.7	80.3	53.2	62.3	56.3	71.5	66.1	68.2	66.2	76.9
Turbidity (NTU)	8.9	21.8	11.2	70.9	11.1	53.7	7.0	17.1	1.2	2.0	5.6	25.5

Surface water monitoring at EPL36 and EPL37 between December 2025 and May 2026 showed generally stable physicochemical conditions, with pH remaining within or close to the adopted objective range of 6.5–8.0 for most sampling events. Minor exceedances were recorded, including a slightly low pH of 6.35 at EPL36 in January and an elevated pH of 8.4 at EPL37 in March. Electrical conductivity remained low throughout the monitoring period (27–98 µS/cm), indicating low salinity and relatively dilute water conditions. EPL37 consistently recorded higher conductivity than EPL36, particularly in March (98 µS/cm), suggesting slightly greater concentrations of dissolved minerals at that location, although all values remained well below the upper guideline value.

Dissolved oxygen concentrations were consistently below the adopted objective of 90–110% saturation, ranging from 53.2% to 80.3% across the monitoring period. The lowest concentrations were recorded at EPL36 in February (53.2%) and EPL37 in December (62.0%), with only a modest improvement observed during autumn. Despite these results, oxidation reduction potential remained positive throughout monitoring (125–232 mV), indicating that the waterways maintained generally oxidising conditions and that there was no evidence of strongly reducing or anaerobic environments. Water temperatures followed expected seasonal trends, decreasing from summer highs of approximately 24°C to around 7–8°C by May.

Turbidity was generally low to moderate, although several notable exceedances of the 2–25 NTU objective occurred. EPL37 recorded elevated turbidity in January (70.9 NTU) and February (53.7 NTU), while EPL36 exceeded the objective in May (25.5 NTU). In contrast, most other results were below 20 NTU and several were very low, including 1.2 NTU at EPL36 in April. The intermittent

turbidity spikes, particularly at EPL37, likely reflect short-term sediment mobilisation associated with rainfall, runoff or local stream disturbances rather than a persistent water quality issue.

Laboratory Analytical Results

Surface water analytical monitoring at EPL36 and EPL37 between December 2025 and May 2026 indicated generally low contaminant concentrations, although several nutrient parameters exceeded the adopted water quality objectives. Total nitrogen frequently exceeded the objective of 250 µg/L, with concentrations ranging from 300 to 800 µg/L at several monitoring events, particularly at EPL37. Ammonia also regularly exceeded the 13 µg/L guideline, reaching concentrations of up to 80 µg/L at EPL36 and 70 µg/L at EPL37. Total phosphorus commonly exceeded the 20 µg/L objective with concentrations ranging from 30 to 90 µg/L, while reactive phosphorus remained below detection limits throughout the monitoring period. Total suspended solids were generally low, although elevated concentrations were recorded at EPL37 in January (24 mg/L) and March (19 mg/L), indicating periods of increased sediment transport.

Metal monitoring showed that most dissolved metal concentrations remained below relevant guideline values. Dissolved arsenic, lead, nickel, silver and manganese were well within applicable objectives, and copper was generally below detection limits, with only one low-level detection (0.6 µg/L) recorded at EPL37. Dissolved iron was the principal metal of concern, exceeding the 300 µg/L guideline on several occasions, including concentrations of 358 µg/L at EPL36 and up to 411 µg/L at EPL37. Dissolved aluminium also exceeded the 27 µg/L objective at EPL37 during multiple monitoring events, reaching a maximum concentration of 57 µg/L in March. Elevated total aluminium and iron concentrations recorded in April and May coincided with increased suspended solids, suggesting that a proportion of the metal load was associated with particulate matter rather than dissolved contamination.

Overall, the results indicate that water quality at EPL36 and EPL37 remained relatively stable, with no evidence of hydrocarbon contamination, cyanide contamination or widespread metal impacts. The main trends observed were persistent nutrient enrichment and occasional increases in turbidity and metals, particularly at EPL37. Elevated nitrogen and phosphorus concentrations may reflect natural catchment inputs, organic matter decomposition, runoff events or localised land disturbance within the catchment. The recurring exceedances of dissolved iron and aluminium, together with episodic increases in suspended sediment, suggest that sediment mobilisation is an important influence on water quality at these sites. However, as most dissolved metals remained low and many exceedances were isolated or linked to elevated sediment loads, the dataset does not indicate a sustained deterioration in surface water quality during the monitoring period.

3.11.2. GROUNDWATER

Physiochemical Results

Table 3-30 Number of Physiochemical Exceedances

WQO Parameter	DO (%)	EC (µS/cm)	pH	Turbidity (NTU)
WQO Objective Value	90-110	30-350	6.5-8	2-25
April	5	2	2	5
May	5	2	3	5

Table 3-31 Range of Physicochemical Results

Parameter	April		May	
	Min	Max	Min	Max
pH	5.89	7.71	5.49	7.39
EC (µS/cm)	24.0	346.0	17.0	267.0
ORP (mV)	109	245	86	273
Temperature (°C)	12.4	14.2	10.5	12.7
DO % saturation	32.2	63.5	46.2	85.8
Turbidity (NTU)	89.0	1000	133.0	1000

Groundwater monitoring at EPL123–EPL127 during April and May 2026 indicates relatively stable groundwater chemistry, with pH ranging from 5.49 to 7.71. EPL124 and, to a lesser extent, EPL123 and EPL125 recorded pH values below the nominated water quality objective of 6.5–8.0, indicating mildly acidic groundwater conditions. Electrical conductivity was generally low (17–346 µS/cm), suggesting low to moderate dissolved mineral content, with EPL126 consistently recording the highest conductivity and therefore the most mineralised groundwater of the monitoring locations. Dissolved oxygen concentrations were below the target range of 90–110% saturation at all sites, ranging from 32.2% to 85.8%, which is typical of groundwater systems where oxygen replenishment is limited. Oxidation-reduction potential remained positive across all sites (86–273 mV), indicating predominantly oxidising groundwater conditions despite the relatively low dissolved oxygen levels.

Turbidity was the standout water quality parameter, with all monitoring locations recording elevated values well above the guideline range of 2–25 NTU. Turbidity ranged from 89 NTU to 1,000 NTU, with several results reaching the upper reporting limit during both monitoring rounds. The consistently high turbidity across the entire monitoring network suggests significant suspended sediment within the groundwater system or bore infrastructure rather than isolated site-specific issues. Given that other physicochemical parameters remained relatively stable between sampling events, the elevated turbidity is more likely related to sediment entrainment, fine-grained geological materials, bore development condition, or groundwater recharge influences rather than a change in groundwater chemistry. Overall, the data indicate generally stable groundwater quality with low mineralisation and mildly acidic conditions at some locations, while suspended sediments appear to be the primary factor influencing water quality across these monitoring bores.

Laboratory Analytical Results

Groundwater analytical monitoring at Rock Forest indicates a clear distinction between the upgradient bores (EPL123 and EPL124) and the downgradient monitoring locations. The upgradient bores recorded substantially higher concentrations of suspended solids (TSS up to 3,980 mg/L), total phosphorus (up to 1,000 µg/L), total nitrogen (up to 1,400 µg/L), and particulate-bound metals including aluminium (up to 14,600 µg/L), iron (up to 14,300 µg/L), chromium, and manganese. Similar patterns were observed during both monitoring rounds, indicating these elevated concentrations are persistent site characteristics rather than isolated events. Despite the elevated total metal concentrations, dissolved metal concentrations were generally low, with dissolved aluminium and iron remaining well below guideline values. This indicates that most metals are associated with suspended sediments rather than being dissolved in the groundwater. The elevated nutrient and metal concentrations at EPL123 and EPL124 therefore appear to reflect naturally sediment laden groundwater conditions present upgradient of the work area rather than a downstream impact.

The downgradient bores generally displayed lower TSS, lower metal concentrations and lower nutrient concentrations compared with the upgradient locations, suggesting that groundwater quality is not deteriorating in the direction of groundwater flow. While some dissolved analytes were elevated at individual locations, including arsenic at EPL126 (up to 1.4 µg/L), copper at EPL125 and EPL127 (up to 73.2 µg/L), and zinc at EPL123–EPL124 (up to 6 µg/L), these exceedances were localised

and did not exhibit a consistent increasing trend downgradient. Dissolved manganese was elevated at EPL126 (392–411 µg/L) but remained below the applicable guideline value. Cyanide and oil and grease were not detected in any sample. Overall, the data indicate that elevated sediment, nutrient and metal concentrations are already present in the upgradient groundwater entering the site, and there is no clear evidence from this monitoring period that project activities are causing widespread groundwater quality impacts at the downgradient monitoring locations.

3.11.3. ANALYTICAL TREND DISCUSSION

Nutrient concentrations within the Rock Forest monitoring zone exhibit substantial temporal variability; however, no clear long-term increasing or decreasing trends are evident. Total nitrogen concentrations are largely driven by TKN, with NO_x representing a relatively minor proportion of total nitrogen throughout the monitoring period. While the downstream monitoring site (EPL37) generally exhibits greater variability and occasional higher concentrations of TKN, TN and TP than the upstream monitoring site (EPL36), these elevated concentrations occur as isolated events rather than as a sustained trend. Consequently, the monitoring data do not indicate a consistent downstream increase in nutrient concentrations attributable to project activities. Total phosphorus concentrations similarly fluctuate within their historical range of variability, with several isolated peaks recorded at EPL37 but no persistent increasing trend evident.

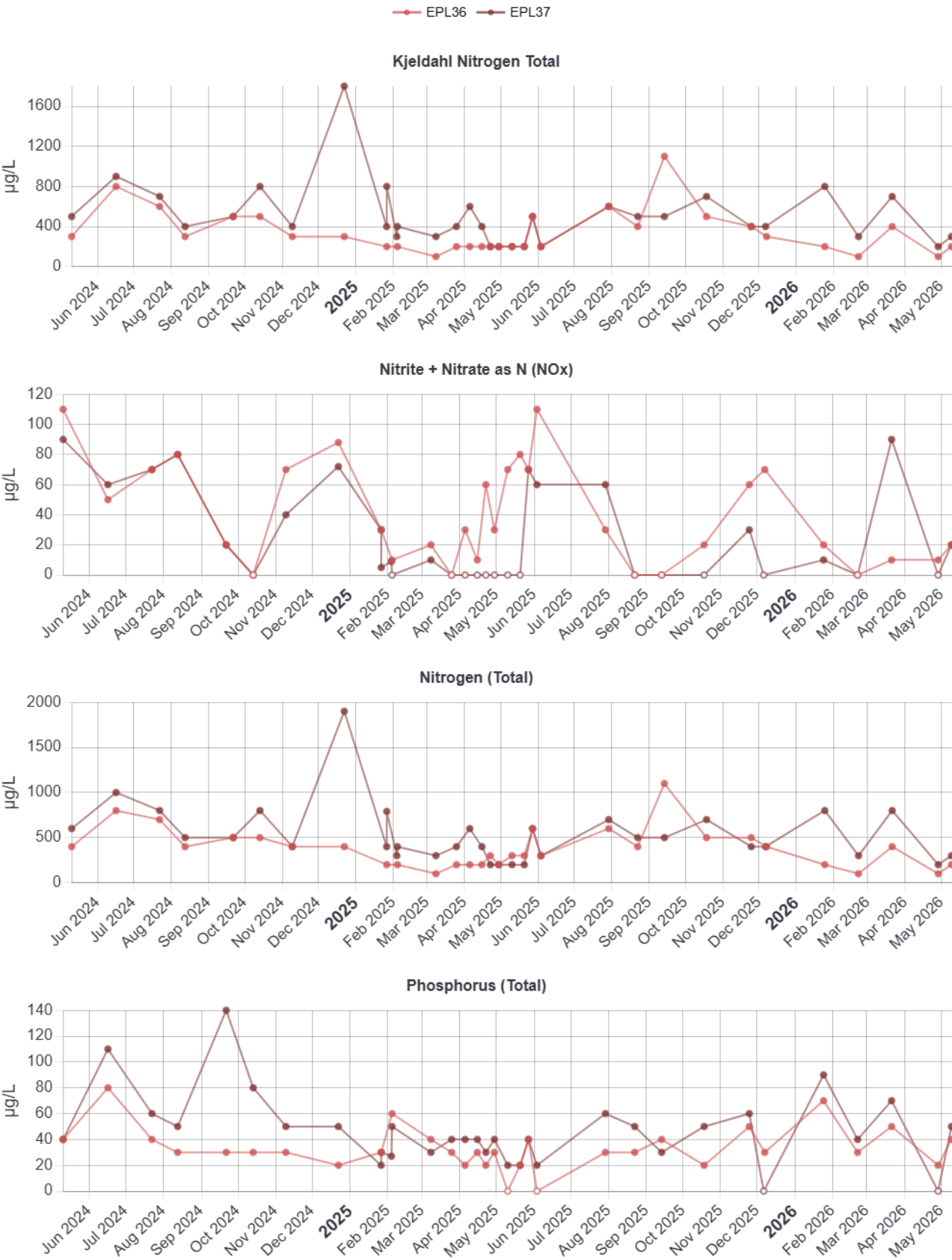


Figure 3-22 Nutrient Trend Rock Forest

4. RECOMMENDATIONS

Based on the results from the reporting period, there are several key actions that have been recommended noting several such recommendations have commenced at the time of issuing this report. Such recommendations are:

- Install and maintain passive monitoring buoys in both Tantangara and Talbingo Reservoirs. Complete as of May 2026.
- Review monitoring locations and identify any suitable for decommissioning.
- Conduct a review of the Water Quality Objectives to realign with updated data sets / ambient conditions.

Annexure A – PREMISE MAP

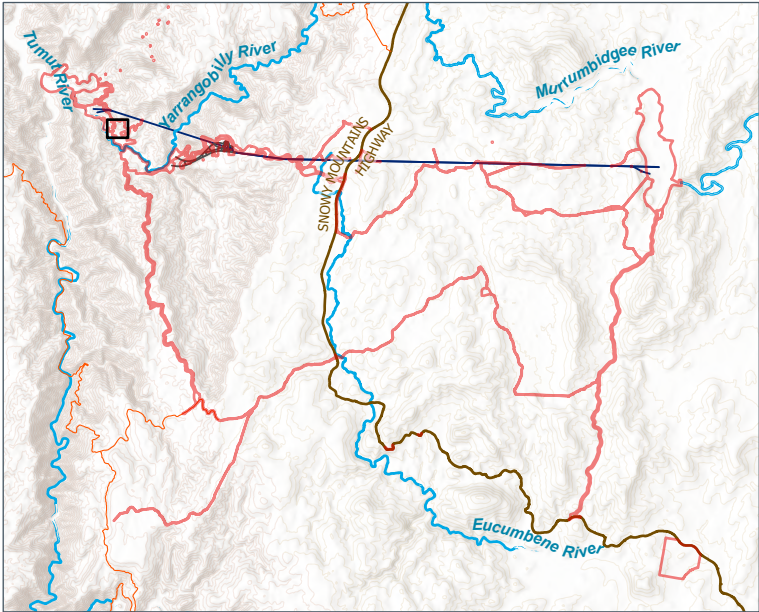


EPL Locations GF01

Legend

- Groundwater
- Surface water
- Leachate water
- Construction Envelope
- Access / Construction Tunnel
- Hydraulic Tunnel
- Primary Road
- Arterial Road
- Drainage
- Major Contour (50m)

ID #	Location	Longitude	Latitude	Media
EPL24	Lobs Hole	148.388545	-35.779893	Surface water
EPL52	GF01	148.388006	-35.778141	Leachate water
EPL53	GF01	148.391374	-35.774478	Surface water
EPL54	GF01	148.389043	-35.77555	Surface water
EPL55	GF01	148.38753	-35.778434	Surface water
EPL56	GF01	148.391504	-35.774757	Groundwater
EPL57	GF01	148.389143	-35.775432	Groundwater
EPL58	GF01	148.388008	-35.778606	Groundwater
EPL90	GF01	148.386253	-35.778407	Groundwater
EPL91	GF01	148.386839	-35.779461	Groundwater
EPL92	GF01	148.387379	-35.77769	Groundwater
EPL93	GF01	148.387746	-35.77778	Groundwater
EPL94	GF01	148.387769	-35.777789	Groundwater
EPL95	GF01	148.388054	-35.778647	Groundwater
EPL97	GF01	148.39003	-35.778508	Groundwater
EPL98	GF01	148.388009	-35.778392	Surface water
EPL122	GF01	148.385177	-35.780204	Surface water



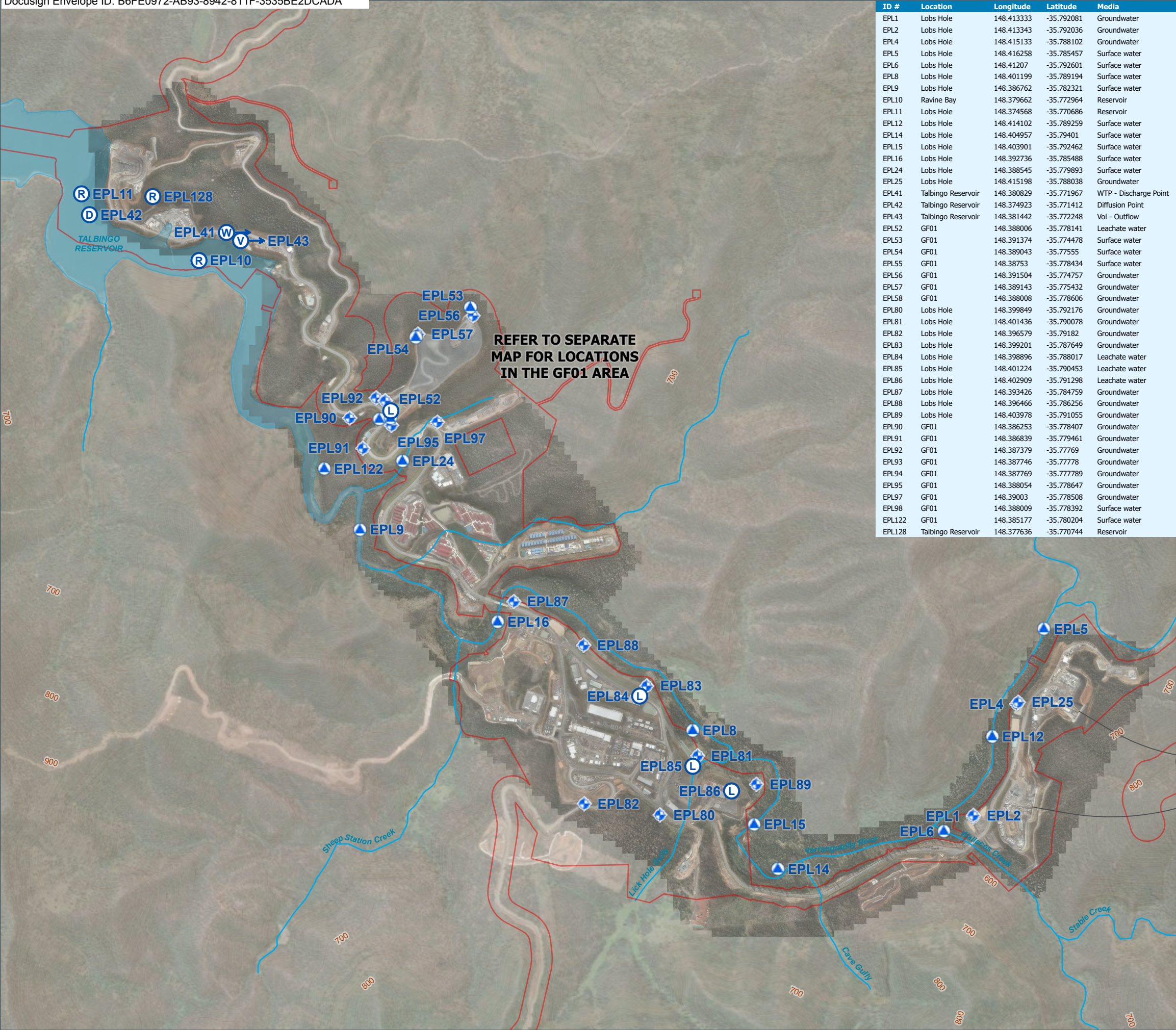
Prepared by: Karen Zhu
Date: 9/03/2026



Spatial Reference: WGS84

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Scale is at A3 paper size where shown



ID #	Location	Longitude	Latitude	Media
EPL1	Lobs Hole	148.413333	-35.792081	Groundwater
EPL2	Lobs Hole	148.413343	-35.792036	Groundwater
EPL4	Lobs Hole	148.415133	-35.788102	Groundwater
EPL5	Lobs Hole	148.416258	-35.785457	Surface water
EPL6	Lobs Hole	148.41207	-35.792601	Surface water
EPL8	Lobs Hole	148.401199	-35.789194	Surface water
EPL9	Lobs Hole	148.386762	-35.782321	Surface water
EPL10	Ravine Bay	148.379662	-35.772964	Reservoir
EPL11	Lobs Hole	148.374568	-35.770686	Reservoir
EPL12	Lobs Hole	148.414102	-35.789259	Surface water
EPL14	Lobs Hole	148.404957	-35.79401	Surface water
EPL15	Lobs Hole	148.403901	-35.792462	Surface water
EPL16	Lobs Hole	148.392736	-35.785488	Surface water
EPL24	Lobs Hole	148.388545	-35.779893	Surface water
EPL25	Lobs Hole	148.415198	-35.788038	Groundwater
EPL41	Talbingo Reservoir	148.380829	-35.771967	WTP - Discharge Point
EPL42	Talbingo Reservoir	148.374923	-35.771412	Diffusion Point
EPL43	Talbingo Reservoir	148.381442	-35.772248	Vol - Outflow
EPL52	GF01	148.388006	-35.778141	Leachate water
EPL53	GF01	148.391374	-35.774478	Surface water
EPL54	GF01	148.389043	-35.77555	Surface water
EPL55	GF01	148.38753	-35.778434	Surface water
EPL56	GF01	148.391504	-35.774757	Groundwater
EPL57	GF01	148.389143	-35.775432	Groundwater
EPL58	GF01	148.388008	-35.778606	Groundwater
EPL80	Lobs Hole	148.399849	-35.792176	Groundwater
EPL81	Lobs Hole	148.401436	-35.790078	Groundwater
EPL82	Lobs Hole	148.396579	-35.79182	Groundwater
EPL83	Lobs Hole	148.399201	-35.787649	Groundwater
EPL84	Lobs Hole	148.398896	-35.788017	Leachate water
EPL85	Lobs Hole	148.401224	-35.790453	Leachate water
EPL86	Lobs Hole	148.402909	-35.791298	Leachate water
EPL87	Lobs Hole	148.393426	-35.784759	Groundwater
EPL88	Lobs Hole	148.396466	-35.786256	Groundwater
EPL89	Lobs Hole	148.403978	-35.791055	Groundwater
EPL90	GF01	148.386253	-35.778407	Groundwater
EPL91	GF01	148.386839	-35.779461	Groundwater
EPL92	GF01	148.387379	-35.77769	Groundwater
EPL93	GF01	148.387746	-35.77778	Groundwater
EPL94	GF01	148.387769	-35.777789	Groundwater
EPL95	GF01	148.388054	-35.778647	Groundwater
EPL97	GF01	148.39003	-35.778508	Groundwater
EPL98	GF01	148.388009	-35.778392	Surface water
EPL122	GF01	148.385177	-35.780204	Surface water
EPL128	Talbingo Reservoir	148.377636	-35.770744	Reservoir

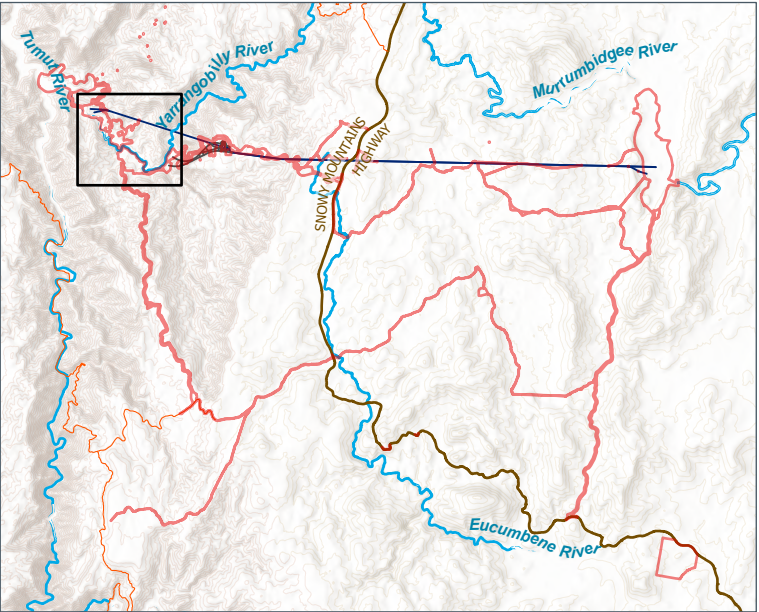


EPL Locations

Lobs Hole

Legend

- Groundwater
- Surface water
- Diffusion Point
- Leachate water
- Reservoir
- WTP - Discharge Point
- Vol - Outflow
- Construction Envelope
- Access / Construction Tunnel
- Hydraulic Tunnel
- Primary Road
- Arterial Road
- Drainage
- Major Contour (50m)



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Scale is at A3 paper size where shown

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Prepared by: Karen Zhu
Date: 9/03/2026

Spatial Reference: WGS84



EPL Locations Marica

Legend

-  Groundwater

 Surface water

 Leachate water

 Construction Envelope

 Access / Construction Tunnel
-  Hydraulic Tunnel

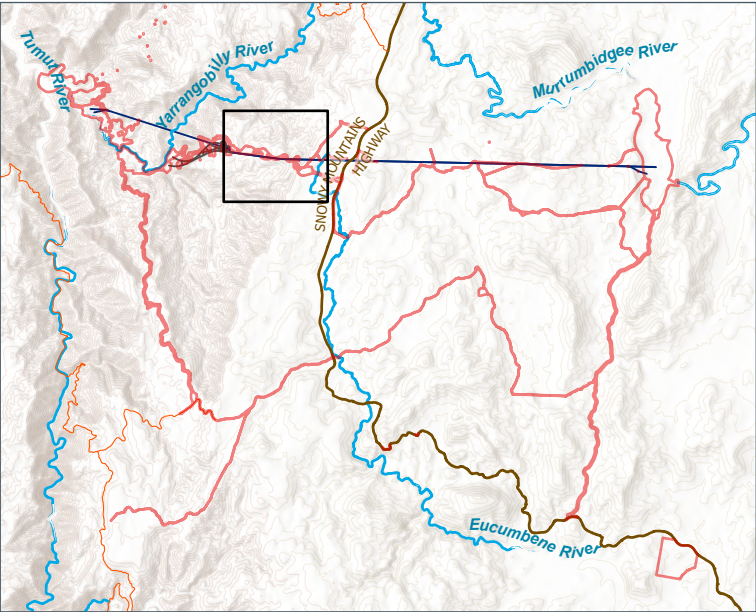
 Primary Road

 Arterial Road

 Drainage

 Major Contour (50m)

ID #	Location	Longitude	Latitude	Media
EPL26	Marica	148.488265	-35.79435	Surface water
EPL27	Marica	148.48821	-35.79447	Surface water
EPL71	Marica	148.452542	-35.786057	Surface water
EPL72	Marica	148.464127	-35.786946	Groundwater
EPL99	Marica	148.463248	-35.785469	Leachate water
EPL100	Marica	148.461039	-35.785835	Leachate water
EPL101	Marica	148.461624	-35.786252	Leachate water
EPL64	Marica	148.456856	-35.784402	Groundwater
EPL65	Marica	148.449348	-35.786373	Groundwater
EPL66	Marica	148.445797	-35.783195	Groundwater





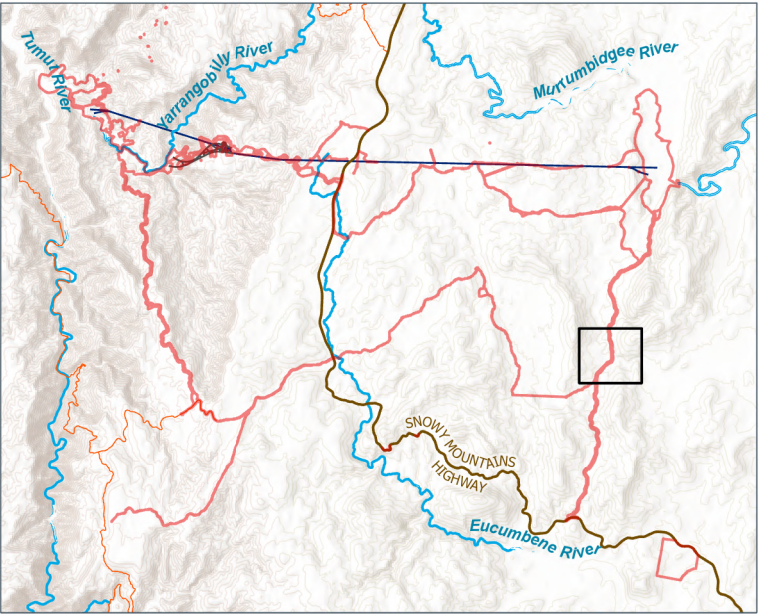
EPL Locations

Nungar Creek

Legend

- Surface water
- Construction Envelope
- Access / Construction Tunnel
- Hydraulic Tunnel
- Primary Road
- Arterial Road
- Drainage
- Major Contour (50m)

ID #	Location	Longitude	Latitude	Media
EPL34	Nungar Creek	148.633218	-35.865454	Surface water
EPL35	Nungar Creek	148.632658	-35.865164	Surface water



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Prepared by: Karen Zhu
Date: 15/01/2026

Spatial Reference: WGS84

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EPL Locations Ravine Bay

Legend

- Groundwater

Surface water

Leachate water

Reservoir

Construction Envelope
- Access / Construction Tunnel

Hydraulic Tunnel

Primary Road

Arterial Road

Drainage

Major Contour (50m)

ID #	Location	Longitude	Latitude	Media
EPL106	Ravine Bay	148.357205	-35.75806	Leachate water
EPL107	Ravine Bay	148.365751	-35.760429	Reservoir
EPL108	Ravine Bay	148.355537	-35.762692	Reservoir
EPL109	Ravine Bay	148.35246	-35.757508	Reservoir
EPL110	Ravine Bay	148.362993	-35.752503	Surface water
EPL113	Ravine Bay	148.364023	-35.75325	Groundwater
EPL114	Ravine Bay	148.35814	-35.755696	Groundwater
EPL115	Ravine Bay	148.36178	-35.757011	Groundwater
EPL116	Ravine Bay	148.35681	-35.757232	Groundwater
EPL117	Ravine Bay	148.35887	-35.757928	Groundwater
EPL118	Ravine Bay	148.362196	-35.755675	Leachate water
EPL119	Ravine Bay	148.362196	-35.754811	Leachate water
EPL120	Ravine Bay	148.362978	-35.753004	Leachate water

Prepared by: Karen Zhu
Date: 9/03/2026

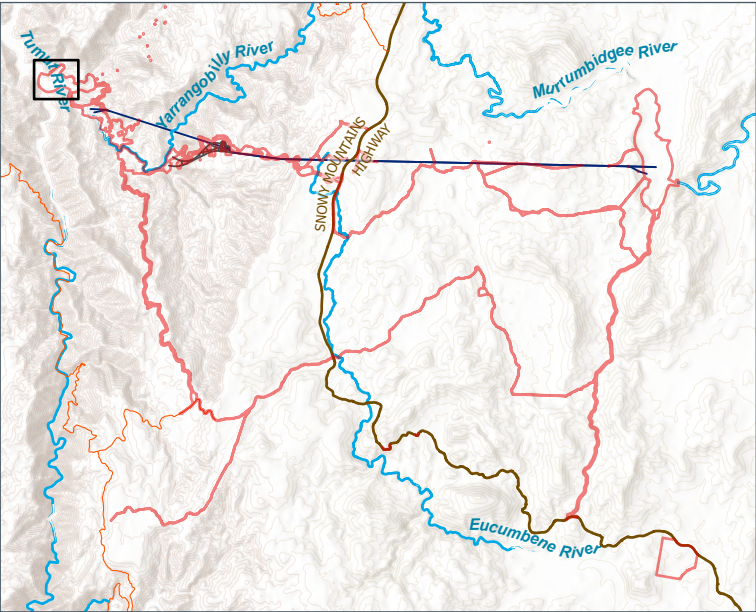
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m

Spatial Reference: WGS84

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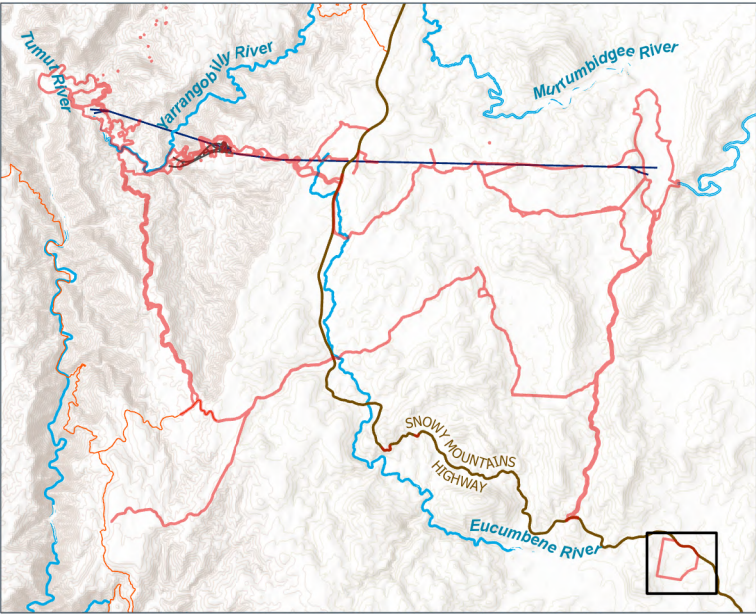
EPL Locations

Rock Forest

Legend

- Groundwater
- Surface water
- Leachate water
- Construction Envelope
- Access / Construction Tunnel
- Hydraulic Tunnel
- Primary Road
- Arterial Road
- Drainage
- Major Contour (50m)

ID #	Location	Longitude	Latitude	Media
EPL36	Rock Forest	148.66727	-35.952445	Surface water
EPL37	Rock Forest	148.675353	-35.94766	Surface water
EPL76	Rock Forest	148.667612	-35.949055	Leachate water
EPL123	Rock Forest	148.661442	-35.949692	Groundwater
EPL124	Rock Forest	148.662695	-35.948896	Groundwater
EPL125	Rock Forest	148.66671	-35.951806	Groundwater
EPL126	Rock Forest	148.669243	-35.949814	Groundwater
EPL127	Rock Forest	148.674808	-35.947165	Groundwater



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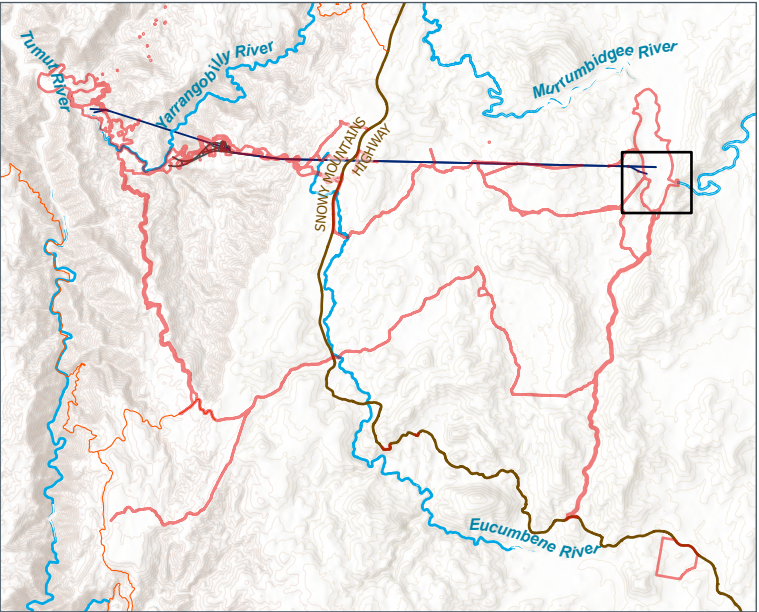


EPL Locations Tantangara

Legend

- Surface water
- Diffusion Point
- Reservoir
- WTP - Discharge Point
- Construction Envelope
- Access / Construction Tunnel
- Hydraulic Tunnel
- Primary Road
- Arterial Road
- Drainage
- Major Contour (50m)

ID #	Location	Longitude	Latitude	Media
EPL29	Tantangara	148.652978	-35.793034	Reservoir
EPL30	Tantangara	148.652001	-35.801362	Surface water
EPL31	Tantangara	148.648474	-35.806315	Surface water
EPL32	Tantangara	148.658771	-35.789504	Reservoir
EPL33	Tantangara	148.664114	-35.795317	Surface water
EPL46	Tantangara	148.657	-35.795	Diffusion Point
EPL50	Tantangara Reservoir	148.651	-35.791	WTP - Discharge Point
EPL51	Tantangara	148.659112	-35.794459	Reservoir
EPL129	Tantangara Reservoir	148.65712	-35.793106	Reservoir



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Prepared by: Karen Zhu
Date: 9/03/2026

Spatial Reference: WGS84

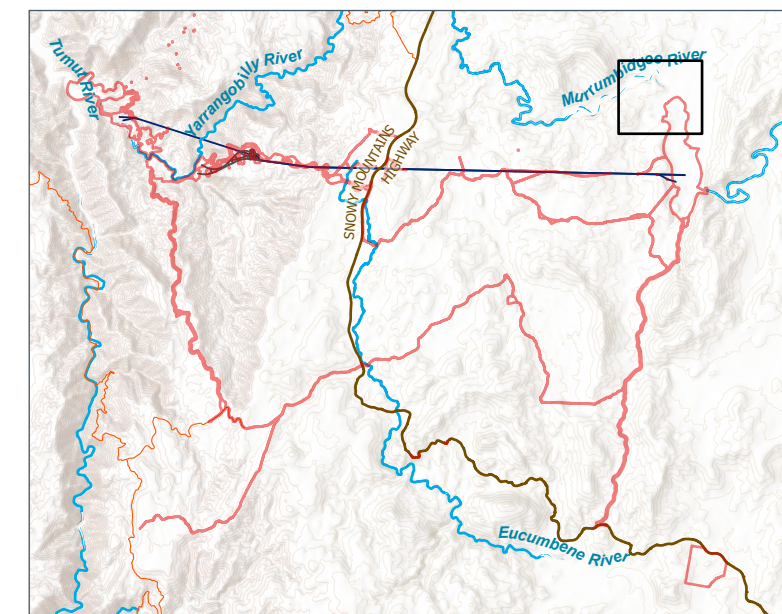
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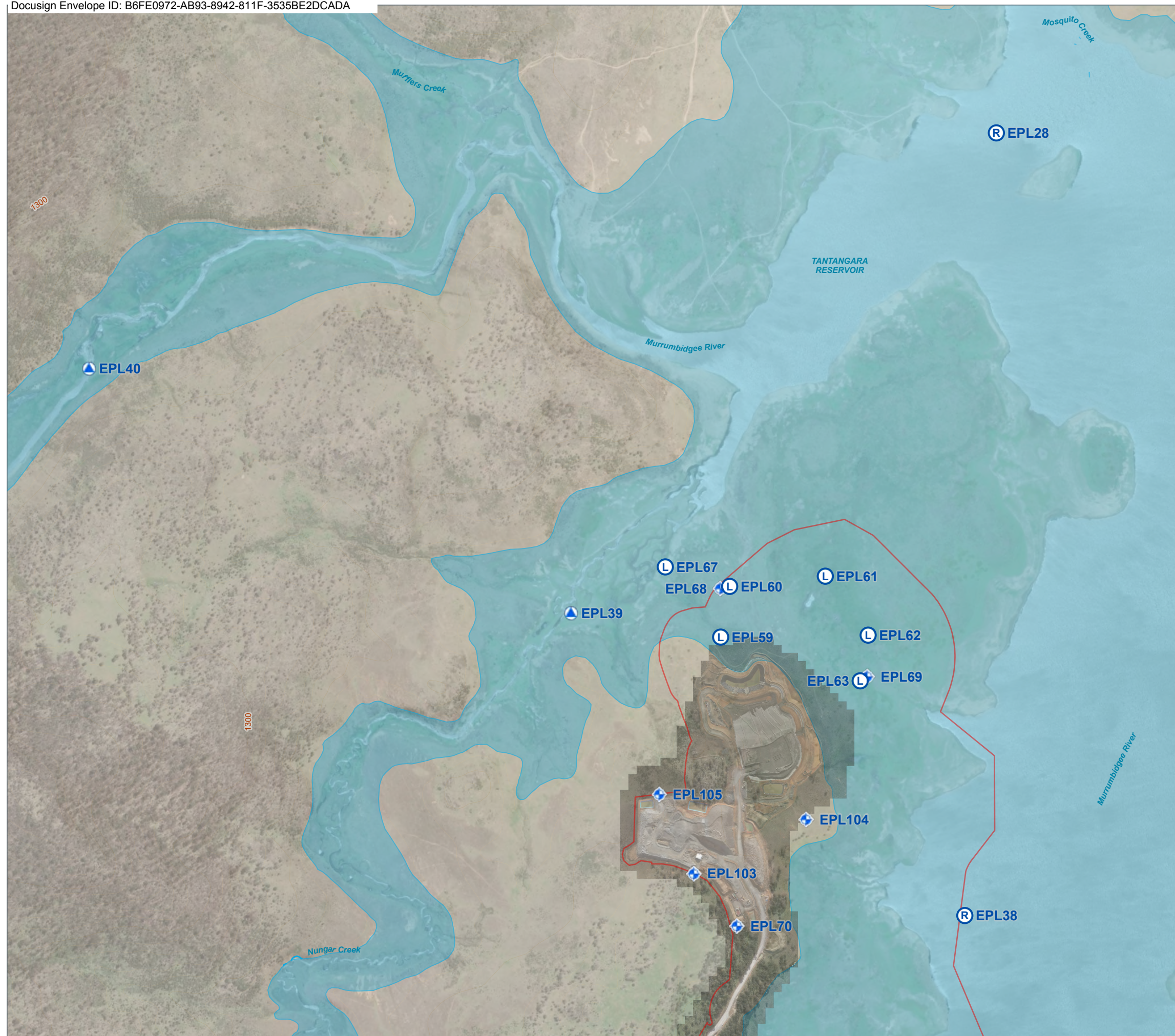
Legend

-  Groundwater
 Surface water
 Leachate water
 Reservoir
 Construction Envelope
- Access / Construction Tunnel
 Hydraulic Tunnel
 Primary Road
 Arterial Road
 Drainage
 Major Contour (50m)

ID #	Location	Longitude	Latitude	Media
EPL28	Tantangara	148.653607	-35.747597	Reservoir
EPL38	Tantangara	148.652978	-35.769468	Reservoir
EPL39	Tantangara	148.639317	-35.761213	Surface water
EPL40	Tantangara	148.622654	-35.754604	Surface water
EPL59	Tantangara	148.64445	-35.761807	Leachate water
EPL60	Tantangara	148.64473	-35.760387	Leachate water
EPL61	Tantangara	148.648002	-35.760057	Leachate water
EPL62	Tantangara	148.649503	-35.761683	Leachate water
EPL63	Tantangara	148.649257	-35.762963	Leachate water
EPL67	Tantangara	148.642513	-35.759873	Leachate water
EPL68	Tantangara	148.644412	-35.760452	Groundwater
EPL69	Tantangara	148.649502	-35.762842	Groundwater
EPL70	Tantangara	148.645177	-35.769867	Groundwater
EPL103	Tantangara	148.64367	-35.768424	Groundwater
EPL104	Tantangara	148.647485	-35.766857	Groundwater
EPL105	Tantangara	148.642441	-35.76623	Groundwater



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Spatial Reference: WGS84

Annexure B – EPL MONITORING RESULTS



Snowy Hydro 2.0 Main Works EPL Sampling: 01 - 31 December 2025

Environmental Protection Licence No:	21266
Licensee:	Snowy Hydro Limited
Licensee address:	PO Box 332, Cooma, NSW 2630
Premises:	Snowy 2.0 Pumped Hydro Power Station Talbingo and Tantangara, Kosciuszko National Park and Rock Forest, Kosciuszko NSW 2642
EPA Public Register:	https://apps.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=21266&id=21266&option=licence&searchrange=licence&range=POEO%20licence&prp=no&status=Issued
Monthly water sampling and analysis is performed as part of the Snowy 2.0 Environmental Protection Licence No 21266 - Variation 26 September 2025.	
A map showing the location of each of the EPL named sampling points is provided after the results tables.	
Groundwater Nutrient concentrations in addition to expected heavy metals were observed to remain outside the WQO's in both above and below gradient locations within Mainyard and GF01. Ravine Bay locations reported consistent nutrient results across the majority of the emplacement area (upgradient and downgradient locations) with the exception of EPL117 whereby Phosphorous concentrations were reported as 410 mg/L which is considered above the WQO's. Groundwater quality within the Tantangara PSE remained outside WQO's for nutrients and select heavy metals such as copper and zinc. Reservoirs Increased faecal coliforms presence was observed at EPL10 and EPL11 during this reporting period (120 cfu / 100 ml - 1900 cfu / 100 ml and 37 cfu / 100 ml - 5900 cfu /100 ml respectively), this is a trend observed over previous seasons likely due to the increasing temperature, notable green colour within the shallower water and the calm nature of the waterbody during sampling retesting is underway. Reservoir levels have fluctuated during the month. Tantangara reservoir reported a considerable temperature difference when compared to Talbingo, possibly reflecting the different climatic conditions influencing this water body. Surface Water Seasonal changes, including reduced rainfall and warmer temperatures, resulted in a number of sites being dry and unable to be sampled, EPL52, EPL53, EPL54, EPL55, EPL67, EPL71, EPL98, EPL110, EPL120 and EPL122. Minor elevations in nutrient concentrations were also observed at EPL36, likely influenced by low flows and interaction with hooved stock. Leachate storage infrastructure continues to exhibit the highest nutrient concentrations and electrical conductivity across the monitoring network. Discharge Analytical results at EPL50 complied with discharge criteria during the month of December. EPL41 results indicate a turbidity reading of 26.4 NTU which is marginally outside of the discharge criteria being <25 NTU. All other results are within WQO criteria. It is noted the discharge ITP reported NTU within criteria for discharge.	

[illegible]

- Sample not required at this location



Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01-31 December 2025 - Talbingo and Tantangara Reservoir

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*
Field			
pH	pH Unit	-	6.5-8
Electrical Conductivity	µS/cm	-	20-30
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value
Temperature	°C	-	No Water Quality Objective Value
Dissolved Oxygen	% saturation	-	90-110
Turbidity	NTU	-	1-20
Laboratory analytes			
Total suspended solids	mg/L	5	No Water Quality Objective Value
Hardness as CaCO ₃	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	µg/L	10	10
Nitrite + Nitrate as N (NO _x)	µg/L	10	10
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value
Nitrogen (Total)	µg/L	100	350
Reactive Phosphorus	µg/L	1	5
Phosphorus (Total)	µg/L	10	10
Inorganics			
Cyanide Total	µg/L	4	7
Hydrocarbons			
Oil and Grease	mg/L	1	5
Metals			
Aluminium (dissolved)	µg/L	5	55
Arsenic (dissolved)	µg/L	0.2	13
Chromium (III+VI) (dissolved)	µg/L	0.2	1
Copper (dissolved)	µg/L	0.5	1.4
Iron (dissolved)	µg/L	2	300
Lead (dissolved)	µg/L	0.1	3.4
Manganese (dissolved)	µg/L	0.5	1,900
Nickel (dissolved)	µg/L	0.5	11
Silver (dissolved)	µg/L	0.01	0.05
Zinc (dissolved)	µg/L	1	8
Biological			
Faecal Coliforms	CFU/100mL	1	10/100 [^]
Biochemical Oxygen Demand	mg/L	2	1/5 [^]

EPL10	EPL11	EPL28	EPL29	EPL32	EPL38	EPL39	EPL40	EPL51	EPL107	EPL108	EPL109
10-Dec-25	10-Dec-25	3-Dec-25	3-Dec-25	3-Dec-25	3-Dec-25	14-Dec-25	3-Dec-25	3-Dec-25	10-Dec-25	10-Dec-25	10-Dec-25
8.66	8.62	7.28	7.22	7.24	7.22	8.11	7.35	7.23	8.77	8.73	8.71
69	56	21	19.9	19.8	19.8	19	22	20	40	32	25
217	217	127.8	139.1	129.9	140.5	176	119.7	144	236	229	227
22.46	21.9	13.5	15	15	14.9	14.73	13.6	14.9	21	20.69	20.03
98.4	63.7	91.4	89.1	88.5	90.3	86.3	91.7	88.2	70	77.1	85.5
1.21	1.1	53.9	52.5	52.8	52.4	7.6	54.5	52.7	0.91	0.96	1.9
<5	<5	6	7	<5	<5	40	5	<5	<5	<5	<5
36	24	7	2	2	7	4	9	2	17	14	12
190	<10	120	<10	<10	<10	70	50	<10	<10	20	70
<10	<10	10	<10	<10	<10	30	<10	<10	<10	<10	<10
200	200	300	200	200	300	200	300	200	200	<100	<100
200	200	300	200	200	300	200	300	200	200	<100	<100
<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
60	<10	40	50	<10	40	40	80	30	<10	<10	<10
<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
<5	<5	37	38	40	38	17	35	38	<5	<5	<5
0.4	0.3	0.2	<0.2	0.2	<0.2	<0.2	<0.2	0.2	0.2	0.2	<0.2
<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
<0.5	<0.5	<0.5	2.4	<0.5	2.2	3.6	1.6	<0.5	<0.5	<0.5	<0.5
21	13	138	122	128	134	75	146	121	6	6	4
<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
<0.5	<0.5	3.1	1.4	2.1	1.8	2.8	6.3	1.5	<0.5	<0.5	0.9
<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.03
<1	<1	<1	<1	<1	<1	<1	4	<1	<1	<1	<1
1,900	5,900	3	-	-	-	-	-	<2	-	-	-
2	2	<2	-	-	-	-	-	8	-	-	-

[^] 90th percentile concentration limits / 100 percentile concentration limits

- Sample not required at this location.



Snowy Hydro 2.0 Main Works				Monthly EPL Sampling: 01-31 December 2025 - Surface Water																																						
Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL5	EPL6	EPL8	EPL9	EPL12	EPL14	EPL15	EPL16	EPL24	EPL26	EPL27	EPL30	EPL31	EPL33	EPL34	EPL35	EPL36	EPL37	EPL52	EPL53	EPL54	EPL55	EPL67	EPL71	EPL84	EPL85	EPL86	EPL98	EPL99	EPL100	EPL101	EPL106	EPL110	EPL118	EPL119	EPL120	EPL122		
Field	-	-	-	1-Dec-25	1-Dec-25	1-Dec-25	1-Dec-25	1-Dec-25	1-Dec-25	1-Dec-25	1-Dec-25	DRY	5-Dec-25	5-Dec-25	7-Dec-25	7-Dec-25	7-Dec-25	7-Dec-25	7-Dec-25	6-Dec-25	6-Dec-25	DRY	Dry	Dry	Dry	Dry	Dry	Dry	2-Dec-25	1-Dec-25	1-Dec-25	Dry	5-Dec-25	5-Dec-25	5-Dec-25	1-Dec-25	DRY	18-Dec-25	1-Dec-25	Dry	Dry	
pH	-	-	6.5-8	8.44	8.14	8.16	8.17	8.29	8.23	8.19	8.26	-	8.84	8.44	7.88	7.9	7.72	8.05	7.95	6.97	7.97	-	-	-	-	-	-	-	9.1	8.72	8.26	-	11.5	9.44	9.69	8.86	-	9.08	8.6	-	-	
Electrical Conductivity	µS/cm	-	90-300	71	67	76	75	71	72	74	75	-	24	23	18	14	13	15	10.0	18	39	-	-	-	-	-	-	-	711.00	1.01	887.00	-	386	619	658	1,940.00	-	2810	1170	75	71	
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	158	177	180	178	167	177	178	175	-	165	191	239	238	253	252	256	232	219	-	-	-	-	-	-	-	158	53	43	-	40	130	115	213	-	165	202	-	-	
Temperature	°C	-	No Water Quality Objective Value	14.63	12.62	13.13	13.37	13.57	13.2	13.22	13.54	-	15.77	13.88	13.19	11.48	15.31	10.67	10.34	17.62	23.68	-	-	-	-	-	-	20.52	16.3	16.19	-	18.83	19.54	19.18	17.02	-	26.52	15.78	-	-		
Dissolved Oxygen	% Saturation	-	90-110	70.7	66.4	65.8	62.1	70.6	70.4	63.7	60.2	-	65.1	60.9	83.5	65.6	73.8	65.2	67.9	58	62	-	-	-	-	-	-	80.5	97.3	84.5	-	59.7	65.8	100	75.4	-	95.9	70.8	-	-		
Turbidity	NTU	-	2-25	0.4	0.03	1.1	0.9	0.6	0.8	1.3	0.8	-	0.4	0.4	9.9	2.8	3.78	6.1	4.4	21.8	8.9	-	-	-	-	-	-	1000	75.00	83.4	-	39.4	20.4	12.9	32.2	-	12.5	40.2	-	-		
Laboratory analyses																																										
TDS	mg/L	5	No Water Quality Objective Value	<5	<5	<5	<5	<5	<5	<5	<5	-	<5	<5	8	<5	<5	<5	<5	<5	<5	<5	-	-	-	-	-	1,330	27	21	-	<5	6	18	<5	-	12	15	-	-		
Hardness as CaCO3	mg/L	5	No Water Quality Objective Value	45	36	45	41	32	36	37	30	-	13	12	7	2	2	<4	<5	<5	<5	<5	-	-	-	-	-	45	208	210	-	65	204	164	465	-	805	438	-	-		
Nutrients																																										
Ammonia as N	mg/L	10	15	10	10	10	10	10	10	10	10	-	20	<10	10	<10	<10	20	<10	40	<10	-	-	-	-	-	-	20	20	20	-	4,480	30	30	90	-	<10	10	-	-		
Nitrite as Nitrate as N (NH2)	mg/L	10	15	<10	<10	<10	<10	<10	<10	<10	<10	-	20	<10	<10	<10	<10	<10	<10	<10	70	<10	-	-	-	-	-	-	6,770	5,400	7,410	-	8,520	20,900	20,400	61,500	-	2,230	<10	-	-	
Kjeldahl Nitrogen Total	mg/L	200	No Water Quality Objective Value	200	200	200	200	200	200	200	200	-	200	100	400	300	300	200	200	300	400	-	-	-	-	-	-	-	-	2,600	1,100	1,500	-	6,200	3,600	2,000	10,600	-	700	200	-	-
Nitrogen (Total)	mg/L	200	200	200	200	200	200	200	200	200	200	-	200	100	400	300	300	200	200	400	400	-	-	-	-	-	-	-	-	8,900	6,500	8,900	-	14,200	24,500	22,400	72,100	-	2,900	200	-	-
Reactive Phosphorus	mg/L	1	15	<10	<10	<10	<10	<10	<10	<10	<10	-	<10	50	<10	<10	<10	<10	<10	<10	<10	-	-	-	-	-	-	30	<10	<10	-	<10	<10	20	<10	-	<10	<10	-	-		
Phosphorus (Total)	mg/L	10	30	<10	<10	<10	<10	<10	<10	<10	<10	-	20	40	40	40	60	<10	20	30	<10	-	-	-	-	-	-	-	1,450	40	110	-	30	30	40	30	-	40	20	-	-	
Inorganics																																										
Cadmium Total	mg/L	4	4	<4	<4	<4	<4	<4	<4	<4	<4	-	<4	<4	<4	<4	<4	<4	<4	<4	<4	-	-	-	-	-	-	-	<4	<4	<4	-	11	<4	<4	<4	-	<4	<4	-	-	
Hydrocarbons																																										
Oil and Grease	mg/L	1	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-	-	-	-	-	-	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	-	-	
Metals																																										
Aluminium (Total)	mg/L	5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aluminium (dissolved)	mg/L	5	27	6	<5	6	5	6	9	6	6	-	<5	<5	14	14	42	14	13	11	30	-	-	-	-	-	-	-	6	8	25	-	<5	8	7	<5	-	<5	<5	-	-	
Arsenic (Total)	mg/L	0.2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arsenic (dissolved)	mg/L	0.2	0.8	0.5	0.2	0.5	0.5	0.5	6.1	0.5	0.4	-	<0.2	<0.2	<0.2	<0.2	0.2	0.2	0.2	0.3	0.6	-	-	-	-	-	-	-	0.5	1.5	1.2	-	0.7	1.2	2.6	3.5	-	1.3	2.1	-	-	
Chromium (Hex-VI) (Total)	mg/L	0.2	No Water Quality Objective Value	<0.2	<0.2	<0.2	<0.2	<0.2	2.3	<0.2	<0.2	-	0.3	0.3	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.3	-	-	-	-	-	-	2.1	4.4	0.8	-	28.0	9.0	17	1.6	-	1.9	1.1	-	-	
Chromium (Hex-VI) (dissolved)	mg/L	0.5	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Copper (Total)	mg/L	0.5	No Water Quality Objective Value	<0.5	<0.5	<0.5	<0.5	<0.5	2.1	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	<0.5	1	1.1	-	<0.5	0.6	0.8	0.7	-	<0.5	<0.5	-	-	
Copper (dissolved)	mg/L	0.5	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Iron (Total)	mg/L	2	No Water Quality Objective Value	16	9	16	15	15	2	15	15	-	17	14	37	26	128	75	77	129	272	-	-	-	-	-	-	-	16	<2	7	-	<2	<2	<2	<2	-	<2	<2	-	-	
Iron (dissolved)	mg/L	0.1	No Water Quality Objective Value	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	-	-	
Lead (Total)	mg/L	0.5	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	mg/L	0.5	No Water Quality Objective Value	<0.5	<0.5	<0.5	<0.5	<0.5	2.1	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	<0.5	1	1.1	-	<0.5	0.6	0.8	0.7	-	<0.5	<0.5	-	-	
Manganese (Total)	mg/L	0.5	No Water Quality Objective Value	0.8	1.9	1.0	1.5	0.7	<0.5	0.9	1.2	-	1.8	0.8	1.9	1.6	1.8	2.6	3.3	67.4	3.9	-	-	-	-	-	-	-	0.8	62.8	12.7	-	<0.5	<0.5	<0.5	1.2	-	<0.5	59,000	-	-	
Manganese (dissolved)	mg/L	0.5	1,200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (Total)	mg/L	0.5	No Water Quality Objective Value	<0.5	<0.5	<0.5	<0.5	<0.5	1.0	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	<0.5	2.0	1.5	-	<0.5	0.8	1.5	2.3	-	7.7	2.7	-	-	
Nickel (dissolved)	mg/L	0.5	8	<0.5	<0.5	<0.5	<0.5	<0.5	1.0	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	<0.5	2.0	1.5	-	<0.5	0.8	1.5	2.3	-	7.7	2.7	-	-	
Silver (Total)	mg/L	0.01	No Water Quality Objective Value	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-	-	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	-	-	
Silver (dissolved)	mg/L	0.01	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Zinc (Total)	mg/L	1	No Water Quality Objective Value	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	<1	<1	<1	-	<1	<1	<1	<1	-	<1	<1	-	-	
Zinc (dissolved)	mg/L	1	2.4	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	<1	<1	<1	-	<1	<1	<1	<1	-	<1	<1	-	-	



Snowy Hydro 2.0 Main Works

Monthly EPL Sampling: 01-31 December 2025 - Discharge Water

Analyte	Unit	Limit of Reporting	Discharge Criteria
Field			
pH	pH Unit	-	6.5-8.5
Electrical Conductivity	µS/cm	-	700 (EPL 41) / 200 (EPL 50)
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value
Temperature	°C	-	15
Dissolved Oxygen	% saturation	-	No Water Quality Objective Value
Turbidity	NTU	-	<25
Laboratory analytes			
Total suspended solids	mg/L	5	5/10^
Hardness as CaCO ₃	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	µg/L	10	1000/2000^
Nitrite + Nitrate as N (NO _x)	µg/L	10	No Water Quality Objective Value
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value
Nitrogen (Total)	µg/L	100	1500/3000^
Reactive Phosphorus	µg/L	1	No Water Quality Objective Value
Phosphorus (Total)	µg/L	10	300/500^
Inorganics			
Cyanide Total	µg/L	4	No Water Quality Objective Value
Hydrocarbons			
Oil and Grease	mg/L	1	2/5^
Metals			
Aluminium (dissolved)	µg/L	5	55
Arsenic (dissolved)	µg/L	0.2	13
Chromium (III+VI) (dissolved)	µg/L	0.2	1
Copper (dissolved)	µg/L	0.5	14
Iron (dissolved)	µg/L	2	300
Lead (dissolved)	µg/L	0.1	3.4
Manganese (dissolved)	µg/L	0.5	1,900
Nickel (dissolved)	µg/L	0.5	11
Silver (dissolved)	µg/L	0.01	0.05
Zinc (dissolved)	µg/L	1	8
Biological			
Faecal Coliforms	CFU/100mL	1	10/100^
Biological Oxygen Demand	mg/L	2	3.5/5^

EPL 41	EPL 50
07 Dec 2025	07 Dec 2025
8.01	7.53
114	43
130	273
20.76	16.1
86	61.6
26.4	0.22
<5	<5
<1	<1
10	40
490	260
200	200
700	500
<10	<10
<10	40
<4	<4
<1.0	<1.0
<5	<5
<0.2	0.2
<0.2	0.5
<0.5	1.3
<2	<2
<0.1	0.1
<0.5	<0.5
<0.5	<0.5
<0.01	<0.01
<1	4
<1	<1
<1	<1

^ 90 Percentile concentration limit/100 Percentile limit



Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01-31 December 2025 - Volumes

Date
1/12/2025
2/12/2025
3/12/2025
4/12/2025
5/12/2025
6/12/2025
7/12/2025
8/12/2025
9/12/2025
10/12/2025
11/12/2025
12/12/2025
13/12/2025
14/12/2025
15/12/2025
16/12/2025
17/12/2025
18/12/2025
19/12/2025
20/12/2025
21/12/2025
22/12/2025
23/12/2025
24/12/2025
25/12/2025
26/12/2025
27/12/2025
28/12/2025
29/12/2025
30/12/2025
31/12/2025

EPL 43 *	EPL 50 ^
Discharge volume (Megalitres)	
-	0.31
-	-
-	0.11
1.19	-
-	-
1.25	-
0.49	-
-	-
-	-
-	0.31
0.27	0.48
-	-
0.22	0.23
-	-
-	-
-	0.22
-	-
-	0.35
-	0.14
-	0.22
0.68	-
0.81	0.41
-	0.51
-	-
-	-
-	0.56
-	0.27
-	-
-	0.17
-	0.35
-	-
4.91	4.64

Totals
- Water not discharged on this day

Note The EPL discharge volume limit for EPL 43 and 50 is 4.32 megalitres per day. Compliance with this criteria was met during the reporting month.



EPL 21266 In Situ Water Quality Measurements
EPL Monthly Monitoring December 2025

Table 1 - Surface Water Quality Data

Water Quality Objectives (see note 1)												
Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)					
-	90 - 110	-	30 - 350	-	6.5 - 8.0	-	2 - 25					
Date and Time	EPL Site ID	Location Description	Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)	Field Comments	Context
1 Dec 2025, 9:16 AM	EPL5	Yarrangobilly River, upstream of the exploratory tunnel and construction pad	14.63	70.7	7.19	71	46	8.44	158	0.4	Overcast day. Minimal rain over the past few days. Water level is medium with a moderate flow. Water is clear, no odour. Hach reads 0.4 NTU.	Low DO (%) and elevated pH is representative of seasonal temperature increases and is within the baseline water quality results summary in the management plan. Low turbidity is considered ambient for an upstream location.
1 Dec 2025, 10:21 AM	EPL6	Wallace's Creek, upstream of Yarrangobilly River and Wallace's Creek confluence	12.62	66.4	7.05	67	44	8.14	177	0.03	Currently lightly raining. Small amounts of rain over the past few days. Water level is medium and flow is moderate. Water is clear with no odour. Hach meter is reading 0.3 NTU	Low DO (%) and elevated pH is typical of a streamline following minor rainfall within the previous week. No notable velocity or turbidity increases due to such rain.
1 Dec 2025, 11:35 AM	EPL8	Yarrangobilly River, downstream of Lick Hole Gully	13.13	65.8	6.91	76	49	8.16	180	1.1	Light rain. Small amounts of rain over the past few days. Water level is medium with a moderate flow. No sheen, foaming or odour. Water is very clear. Hach meter reads 1.1 NTU	Low DO (%) and elevated pH is representative of seasonal temperature increases and is within the baseline water quality results summary in the management plan. Low turbidity is consistent with the upstream locations.
1 Dec 2025, 11:51 AM	EPL9	Yarrangobilly River, downstream of the accommodation camp and upstream of Talbingo Reservoir	13.37	62.1	6.49	75	49	8.17	178	0.9	Light rain. Small amounts of rain in the past few days. Medium level with a moderate flow. No odour. Slight foaming (see photo 4).	Low DO (%) and elevated pH is representative of seasonal temperature increases and is within the baseline water quality results summary in the management plan. Low turbidity is consistent with the upstream locations.
1 Dec 2025, 9:30 AM	EPL12	Yarrangobilly River, immediately downstream of portal pad	13.57	70.6	7.35	71	46	8.29	167	0.6	Overcast day. Minimal rain over the past few days. River is at a medium level with a moderate flow. Very clear water. Plenty of vegetation surrounding. No odour. Hach meter reads 0.6 NTU	Low DO (%) and elevated pH is representative of seasonal temperature increases and is within the baseline water quality results summary in the management plan. Low turbidity is consistent with the upstream locations.
1 Dec 2025, 11:00 AM	EPL14	Yarrangobilly River, downstream of road construction areas	13.2	70.4	7.38	72	47	8.23	177	0.8	Light rain and overcast. Small amounts of rain over the past few days. Water level is medium with a moderate flow. Water is very clear with no odour. Hach meter reads 0.8 NTU .	Low DO (%) and elevated pH is representative of seasonal temperature increases and is within the baseline water quality results summary in the management plan. Low turbidity is consistent with the upstream locations.
1 Dec 2025, 11:17 AM	EPL15	Yarrangobilly River, downstream of road construction areas	13.22	63.7	6.68	74	48	8.19	178	1.3	Light rain. Small amounts of rain over the past few days. Water level is medium with a moderate flow. Water is clear, no odour, no sheens. Some slight surface foaming on a nearby tree. See photo 4. Hach meter is reading 1.3 NTU.	Low DO (%) and elevated pH is representative of seasonal temperature increases and is within the baseline water quality results summary in the management plan. Low turbidity is consistent with the upstream locations.
1 Dec 2025, 12:06 PM	EPL16	Yarrangobilly River, downstream of road construction areas	13.54	60.2	6.26	75	48	8.26	175	0.8	Overcast. Recent showers over the past few days. Water level is medium with a moderate flow. Surface has no sheen or bubbling. Water is clear. Hach meter reads 0.8 NTU. QA_LOB_1 and QA_LOB_2 taken at this location.	Low DO (%) and elevated pH is representative of seasonal temperature increases and is within the baseline water quality results summary in the management plan. Low turbidity is consistent with the upstream locations.
15 Dec 2025, 10:16 AM	EPL24	Yarrangobilly River tributary (Watercourse 2), directly downstream of road	-	-	-	-	-	-	-	-	Very low water level. Cant be sampled with disturbing creek bed. No sample taken	Sample not taken due to low water levels.
5 Dec 2025, 10:48 AM	EPL26	Eucumbene River downstream of Marica Road	15.77	65.1	6.46	24	16	8.84	165	0.4	Clear day. Water running slowly and low level. Signs of hooved animal activity near sample point. Turbity measured with Hach meter.	The recorded concentrations are representative of the ambient environmental conditions consistently observed within previous monitoring rounds at this location due to the lack of construction activities in this area.
5 Dec 2025, 10:59 AM	EPL27	Eucumbene River upstream of Marica Road	13.88	60.9	6.29	23	15	8.44	191	0.4	Clear day. No odour or sheen. Signs of hooved animal activity near sample point. No odour or sheen. Water slow flow and low level.	Physio-chemical measurements are representative of the ambient environmental conditions consistently observed at this location.
7 Dec 2025, 9:46 AM	EPL30	Kellys Plain Creek, downstream of accommodation camp and laydown areas	13.19	83.5	8.76	18	12	7.88	239	9.9	Sunny day, low flow, clear water, no dour, slow flow	The low Do (%) and EC align with historical data and expected seasonal conditions.
7 Dec 2025, 10:00 AM	EPL31	Kellys Plain Creek, upstream of accommodation camp and laydown areas	13.48	65.6	6.84	14	9	7.9	238	2.8	Sunny day, slow flow, clear water, no odour, low flow	Low EC and DO (%) is representative of the environmental conditions for this location as previously recorded within our monitoring rounds.
7 Dec 2025, 9:09 AM	EPL33	Murrumbidgee River, downstream of Tantangara reservoir outlet	15.31	73.8	7.39	13	8	7.72	253	3.78	Sunny day, clear water, slow flow, no odour, less flow than usual	Low EC and DO (%) is representative of the environmental conditions for this location, it is slightly greater than the naturally occurring streams in the surrounding area, though that could be attributed to the outlet nearby.
7 Dec 2025, 6:58 AM	EPL34	Nungar Creek, upstream of Tantangara Road	10.67	65.2	7.24	15	10	8.05	252	6.1	Sunny day, slow flow, low water level, clear water	Low EC and DO (%) is representative of the environmental conditions for this location as previously recorded within our monitoring rounds.
7 Dec 2025, 7:08 AM	EPL35	Nungar Creek, downstream of Tantangara Road	10.34	67.9	7.6	10	7	7.95	256	4.4	Sunny day, cold morning, slow flow, less flow than usual, clear water, no odour	The recorded concentrations are representative of the ambient environmental conditions consistently observed at this location.
6 Dec 2025, 10:25 AM	EPL 36	Camerons Creek, upstream of works in Rock Forest	17.62	58	5.54	33	22	6.97	232	21.8	Sunny day, slow flow, low flow, clear water, no odour	Low DO (%) is considered representative of the environmental conditions for this location.
6 Dec 2025, 11:00 AM	EPL 37	Camerons Creek, downstream of works in Rock Forest	23.68	62	5.25	39	26	7.97	219	8.9	Sunny day, no odour, slow flow, clear water	Low DO (%) is considered representative of the environmental conditions for this location..
15 Dec 2025, 12:36 PM	EPL52	GF01 leachate basin	-	-	-	-	-	-	-	-	Water level too low to reach with sample pole.	No sample taken due to low water levels.
-	EPL53	GF01 surface water upstream east	-	-	-	-	-	-	-	-	-	Location dry.
-	EPL54	GF01 surface water upstream west	-	-	-	-	-	-	-	-	-	Location dry
15 Dec 2025, 12:40 PM	EPL55	GF01 surface water downstream	-	-	-	-	-	-	-	-	No sample taken due to no flowing water.	Location dry.
-	EPL67	Nungar Creek surface water downstream west from Tantangara emplacement area	-	-	-	-	-	-	-	-	Flow to low to sample	Location dry.
5 Dec 2025, 9:08 AM	EPL71	Surface water downstream of Marica emplacement	-	-	-	-	-	-	-	-	Water level and flow too low to sample. Some small stagnant pools.	No sample taken.
2 Dec 2025, 11:14 AM	EPL84	F8 Basin	20.52	80.5	7.23	711	455	9.1	158	1000	Water turbid and brown colour. Water level low. No odour or sheen.	Site is leachate storage infrastructure.
1 Dec 2025, 10:49 AM	EPL85	MY07 Basin	16.3	97.3	9.52	1.01	644	8.72	53	75.00	Recent rain. No odour or sheen. Overcast day.	Site is leachate storage infrastructure.
1 Dec 2025, 10:39 AM	EPL86	LHG01 Basin	16.19	84.5	8.29	887.00	568	8.26	43	83.4	Recent rain. No odour or sheen.	Site is leachate storage infrastructure.
15 Dec 2025, 12:38 PM	EPL98	Rock blanket diversion monitoring under GFO1 liner	-	-	-	-	-	-	-	-	Site is dry	No sample taken.
5 Dec 2025, 9:52 AM	EPL99	Marica Leachate Basin Turkey's Nest	18.83	59.7	5.55	386	251	11.5	49	39.4	Clear day. No recent rain. Water green colour on surface.	Site is leachate storage infrastructure.
5 Dec 2025, 10:20 AM	EPL100	Marica Lower Leachate Basin USS Shaft	19.54	65.8	6.03	619	396	9.44	130	20.4	Clear day. No recent rain. No odour or sheen. Water green in basin and clear on surface. Algae floating on surface.	Site is leachate storage infrastructure.
5 Dec 2025, 10:07 AM	EPL101	Marica Leachate Basin Spoil Pad	19.18	100	9.23	658	421	9.69	115	12.9	Clear day. No recent rain. Water green colour in basin. No odour or sheen. Water clear on surface.	Site is leachate storage infrastructure.
1 Dec 2025, 10:15 AM	EPL106	Ravine Bay Leachate Basin	17.02	75.4	7.24	1,940.00	1,240.00	8.86	213	32.2	Decent rain approx. 6mm. No foam sheen or odour. QA 1 SAMPLED HERE , PSE_GWS flowing into Sb1.	Site is leachate storage infrastructure.



EPL 21266 In Situ Water Quality Measurements
EPL Monthly Monitoring December 2025

18 Dec 2025, 12:50 PM	EPL110	Upstream monitoring of Ravine Bay emplacement area	-	-	-	-	-	-	-	-	Did not sample no water flow	No sample taken.
18 Dec 2025, 12:17 PM	EPL118	Ravine Bay Leachate basin 2	26.52	95.9	7.64	2830	1810	9.08	165	12.5	No recent rain, no nearby works no foam sheen or odour relatively clear water	Site is leachate storage infrastructure.
1 Dec 2025, 9:25 AM	EPL119	Ravine Bay Leachate basin 3	15.78	70.8	7	1170	746	8.6	202	40.2	Recent rainfall approx. 6mm. No foam sheen or odour. Orange sediment on geofabric. Slightly turbid water.	Site is leachate storage infrastructure.
-	EPL120	Ravine Bay Leachate basin 4	-	-	-	-	-	-	-	-	Dry, no water	Site is leachate storage infrastructure under construction.
15 Dec 2025, 10:29 AM	EPL122	GFO1 Drainage Line (Formerly EPL 55b)	-	-	-	-	-	-	-	-	No flow. Sample not taken	Sample not taken due to low water

Table 2 - Reservoir Water Quality Data
Talbingo and Tantangara Reservoirs

Water Quality Objectives (see note 2)												
Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)					
-	90 - 110	-	20 - 30	-	6.5 - 8.0	-	1 - 20					
Date and Time	EPL Site ID	Location Description	Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)	Field Comments	Context
10 Dec 2025, 9:24 AM	EPL10	Talbingo Reservoir, downstream of road works and upstream of water intake point	22.46	98.4	8.53	69	45	8.66	217	1.21	Clear day, no rain recent, sunny, no wind. Clear green water, no sheen, no Odors.	pH and EC measurements were accompanied by elevated water body temperatures and a notable lack of water movement. Water levels within Reservoir were notably low.
10 Dec 2025, 9:10 AM	EPL11	Talbingo Reservoir, downstream of outlet	21.9	63.7	5.6	56	37	8.62	217	1.1	Clear, still day, no sheen, no Odors, no recent rain. Water clear and slight green - nothing unusual. QA TAKEN HERE	Slightly elevated pH and low DO (%) could be attributed to seasonal conditions as the reservoir temperature increases as observed in the data produced by our previous monioring rounds.
14 Dec 2025, 9:16 AM	EPL28	Tantangara Reservoir, upstream of works in the mouth of the Murrumbidgee River	15.73	78.6	7.8	18	12	8.42	138	2.4	Cloudy, cold day, previous storms. No Odors, no sheen, no colour. Clear water.	Slightly elevated pH and low DO (%) could be attributed to the temperature increase at the time of the sample collection as seen in previous monitoring rounds.
14 Dec 2025, 9:39 AM	EPL29	Tantangara Reservoir, downstream of works area and upstream of lower Murrumbidgee River	16.67	63.6	6.19	17	11	8.04	167	2.3	Cold windy day. Storms Prev 24hrs. Works starting on shore. Bubbles on surface, no sheen, no Odor, no colour	Slightly elevated pH and low DO (%) could be attributed to seasonal conditions as the reservoir temperature increases as observed in the data produced by our previous monioring rounds.
14 Dec 2025, 9:37 AM	EPL32	Tantangara Reservoir, Tantangara Intake. Downstream of construction works	16.5	68.7	6.71	17	11	8	165	2.1	Windy, cold day, storms Prev 24hrs. No Odors, no sheens, clear water. Bubbled on surface of water. Works have started near waters edge.	Low DO (%) and EC are within the environmental conditions of this location as observed in the data produced by our previous monioring rounds.
14 Dec 2025, 9:29 AM	EPL38	Tantangara Reservoir, variable location dependant on tide and reservoir levels. Between the emplacement area and the ancillary facilities for emplacement activities	15.94	68.5	6.77	17	11	8.1	158	2.0	Windy, cold day. Storms in Prev 24hours, no Odors, no sheen, clear water.	Low DO (%) and EC are within the environmental conditions of this location as observed in the data produced by our
14 Dec 2025, 11:48 AM	EPL39	Confluence of Nungar Creek and Tantangara Reservoir, variable location dependent on tide and reservoir levels. Upstream of Tantangara construction works	14.73	86.3	8.76	19	12	8.11	176	7.6	Windy day, white bubble on surface. No sheens. No Odor. Clear water. Medium flow and level	Low DO (%) and EC are within the environmental conditions of this location as observed in the data produced by our previous monioring rounds.
14 Dec 2025, 9:13 AM	EPL40	Confluence of the upper Murrumbidgee River and Tantangara Reservoir, variable location dependent on tide and reservoir levels. Upstream of works	15.73	78.6	7.81	21	13	8.75	125	2.6	Windy, cold day, previous storms. No Odors. No sheen. Clear water.	Low DO (%) is within the environmental conditions of this location. Slightly elevated pH is also within range of data entered from previous monioting periods.
14 Dec 2025, 9:52 AM	EPL 46	Tantangara Reservoir, diffuser outlet discharging into Tantangara Reservoir from Tantangara STP/PWTP	16.64	63.4	6.17	17	11	7.99	173	2.5	Windy and cold day. Storms in Prev 24hrs. Clear water, bubbles in surface, works started on shore. No sheen or Odors.	Low DO (%) and EC are within the environmental conditions of this location
3 Dec 2025, 11:17 AM	EPL 51	Tantangara Reservoir, downstream of Tantangara STP/PWTP diffuser outlet	14.9	88.2	8.92	20	16	7.23	144	52.7	Sunny day. Dark green water. Low res level. Intake works on land starting nearby. Turb reading inaccurate on ysl.	Low DO (%) and EC are within the environmental conditions of this location. Turbidity noted as inaccurate in field notes. Following inaccurate turbidity measurement, sampling was concluded to be reconducted at a following date.
10 Dec 2025, 8:46 AM	EPL107	Upstream monitoring of Ravine Bay emplacement area within Yarrangobilly River	21	70	6.23	40	26	8.77	236	0.91	Clear and still day, sunny, no recent rain, no sheen, no Odors, greenish clear water Turn taken y hatch	The minor elevation in EC is consistent with the historical data for this location.
10 Dec 2025, 8:43 AM	EPL108	Monitoring of Ravine Bay emplacement area (centre of PSE) within Yarrangobilly River	20.69	77.1	6.19	32	21	8.73	229	0.96	Sunny still day, no recent rain, green clear colour. No Odor, no sheen	Slightly low DO (%) is consistent with the historical data for this location.
10 Dec 2025, 8:36 AM	EPL109	Upstream monitoring of Ravine Bay emplacement area within Yarrangobilly River	20.03	85.5	7.77	25	17	8.71	227	1.9	Very quiet still morning, sunny, no recent rain. Water clear, algae near boat ramp but not near here.	Slightly low DO (%) is consistent with the historical data for this location.

Table 3 - Treated Water Quality Data
Talbingo

Water Quality Objectives (see note 3)												
Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)					
-	-	-	700	-	6.5 - 8.5	-	25					
Date and Time	EPL Site ID	Location Description	Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)	Field Comments	Context
7 Dec 2025, 8:09 AM	EPL41	Lobs Hole STP/PWTP Final Effluent Quality Monitoring Point. Downstream of final treatment, prior to discharge to Talbingo Reservoir.	20.76	86	7.7	114	74	8.01	130	26.4	Clear, no odour, no sheen, not turbid	Turbidity is slightly over WQO's. No discharge was occurring at time of sampling.

Table 4 - Treated Water Quality Data
Tantangara

Water Quality Objectives (see note 3)												
Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)					
-	-	-	200	-	6.5 - 8.5	-	25					
Date and Time	EPL Site ID	Location Description	Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)	Field Comments	Context
7 Dec 2025, 8:26 AM	EPL50	Tantangara STP/PWTP Final Effluent Quality Monitoring Point. Downstream of final treatment, prior to discharge to Tantangara Reservoir.	16.1	61.6	6.07	43	28	7.53	273	0.22	Sunny day, clear water, treatment plant in circulation before sampling, no odour	All parameters are within WQO's.

Table 5 - Groundwater Quality Data
Lobs Hole, Tantangara and Marica

Water Quality Objectives (see note 1)												
Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)					
-	-	-	30 - 350	-	6.5 - 8.0	-	-					
15 Dec 2025, 11:47 AM	EPL56	GFO1 Upstream east groundwater well	16.84	61.6	5.97	234	152	7.54	89	4.3	Sunny day. No recent rain. GFO1 footprint above bore. Clear water. No odour.	All parameters are within WQO's.
15 Dec 2025, 12:05 PM	EPL57	GFO1 Upstream west groundwater well	16.99	33.7	3.26	256	167	8.05	99	35	Sunny day. Clear water. Emplacement area encroaching on bore.no odour.	Slightly elevated pH is consistent with previous sampling rounds.
15 Dec 2025, 12:46 PM	EPL58	GFO1 Downstream Groundwater well	17.45	8.6	0.82	815	521	6.08	199	3.4	Clear water. No odour. Sunny day. No recent rain. Sample taken via extraction pump.	EC concentrations being above the WQO's is within the environmental conditions recorded in previous monitoring rounds, as is the slightly lower ph.
7 Dec 2025, 11:58 AM	EPL68	Leachate detection BH downstream East	12.2	58	6.23	9	6	5.87	316	14.6	Sunny day, clear water, no odour	Slightly Low EC and pH is consistent with previous monitoring rounds for this location.
7 Dec 2025, 11:40 AM	EPL69	Tantangara groundwater downstream East	12.07	50.8	5.47	23	15	6.17	307	162	Sunny day, a bit turbid water, no odour	Slightly Low EC and pH is consistent with previous monitoring rounds for this location.
7 Dec 2025, 10:23 AM	EPL70	Tantangara groundwater upstream	13.25	46.7	4.9	61	40	6.69	290	20	Sunny day, sediment at the bottom, no odour	All parameters are within WQO's
5 Dec 2025, 6:52 AM	EPL72	Marica groundwater upstream	12.6	50.3	5.35	94	61	6.62	229	17	Clear day. No recent rain. Water clear. No odour.	All parameters are within WQO's



EPL 21266 In Situ Water Quality Measurements
EPL Monthly Monitoring December 2025

1 Dec 2025, 12:08 PM	EPL80	LHG groundwater upstream	15.36	23.1	2.31	746	478	6.61	-6	48.1	Recent rain event. No odour or sheen. Water yellowy colour.	Elevated EC consistent with background conditions recorded from previous monitoring rounds for this location.
2 Dec 2025, 12:12 PM	EPL81	LHG groundwater downstream	15.67	17.8	1.76	912.00	583	6.9	-2	5.2	Eater extracted using electric bore pump. Water clear. No odour or sheen.	Elevated EC consistent with background conditions recorded from previous monitoring rounds for this location.
2 Dec 2025, 12:21 PM	EPL82	MY groundwater upstream	16.97	18.5	1.78	287.00	184.00	6.73	-2	39.4	Clear day. Slight sulphuric odour.	All parameters are within WQO's
2 Dec 2025, 11:28 AM	EPL83	MY groundwater downstream	15	13.6	1.37	490	319	6.43	194	14	Water extracted using electric pump. No odour or sheen.	Elevated EC is consistent with background conditions recorded from previous monitoring rounds for this location.
2 Dec 2025, 11:49 AM	EPL87	MY groundwater downstream	14.97	7.5	0.75	854	547	6.73	84	58.2	Water extracted using electric bore pump. No odour or sheen.	Elevated EC consistent with upgradient conditions for this location.
1 Dec 2025, 9:56 AM	EPL88	MY groundwater downstream	14.15	38.9	3.99	799	511	6.71	-91	15.6	Overcast day. Recent rain event.	Elevated EC consistent with upgradient conditions for this location.
1 Dec 2025, 11:49 AM	EPL89	LHG groundwater downstream	13.58	34.2	3.56	391	254	6.81	122	107	Overcast day. Recent rain. No odour or sheen. Water yellowy colour.	Elevated EC consistent with background conditions for this location.
15 Dec 2025, 10:55 AM	EPL 90	GF01 groundwater downstream	16.65	33.7	3.28	51	33	5.86	238	2.8	Sunny day. Sample taken from extraction pump. No odour. QAs taken here.	The low pH levels are consistent with the historical data and is expected for this location.
15 Dec 2025, 10:46 AM	EPL 91	GF01 groundwater downstream	20.21	58.9	5.33	258	168	7.11	196	22.3	Sunny day. No odour. Clear water. No recent rainfall.	All parameters are within WQO's
15 Dec 2025, 11:12 AM	EPL 92	GF01 groundwater downstream	16.54	41.4	4.04	104	67	6.3	215	360	Sunny day. No recent rain. No odour. Red brown water. High turb. Sample taken with check valve.	The low pH levels are consistent with the historical data and is expected for this location.
15 Dec 2025, 11:22 AM	EPL 93	GF01 groundwater downstream	16.36	17.3	1.69	219	142	6.9	135	120	Sunny day. Brown red water. High turb. Sample taken with foot valve.	All parameters are within WQO's
15 Dec 2025, 11:30 AM	EPL 94	GF01 groundwater downstream	16.75	14.9	1.45	171	111	6.65	89	44.2	Sunny day. Yellowish water. No odour.	All parameters are within WQO's
15 Dec 2025, 12:55 PM	EPL 95	GF01 groundwater downstream	17.34	38.4	3.67	900	576	6.01	203	3.9	Sunny day. Clear water. Sample taken from extraction pump. No odour.	Elevated EC consistent historical ranges for this location. The slightly low pH levels have been recorded previously.
15 Dec 2025, 12:25 PM	EPL 96	GF01 groundwater downstream	18.21	23.7	2.24	522	334	7.1	148	1000	No plinth, cracked pvc, water ingress likely. Sunny day. No recent rainfall. Dark orange water. Very turbid, greater than 1000 ntu	EC concentrations being above the WQO's is within the environmental conditions recorded in previous monitoring rounds.
15 Dec 2025, 1:01 PM	EPL 97	GF01 groundwater downstream	17.47	17.4	1.66	488	317	6.41	193	19.2	Sunny day. No recent rain. Clear water. No odour. Water in basin next to site.	Elevated EC consistent with historical ranges for this location. The slightly low pH levels have been recorded previously.
7 Dec 2025, 10:40 AM	EPL103	Upstream groundwater monitoring west of the Tantangara emplacement area	13.03	44.3	4.67	27	18	6.49	292	2.78	Sunny day, clear water, no odour	The low pH levels are consistent with the historical data and is expected for this location.
7 Dec 2025, 11:04 AM	EPL104	Downslope groundwater monitoring east of the Tantangara emplacement area	12.67	37.4	3.97	41	27	6.28	305	7.1	Sunny day, clear water, no odour	The low pH levels are consistent with the historical data and is expected for this location.
7 Dec 2025, 11:29 AM	EPL105	Downslope groundwater monitoring east of the Tantangara emplacement area	12.26	47.7	5.1	181	117	5.83	321	1.2	Sunny day, clear water, no odour	Low pH is considered ambient for this location.
1 Dec 2025, 9:44 AM	EPL113	Upstream east monitoring of Ravine Bay emplacement area	12.38	30	3.21	113	73	6.6	276	37.2	Recent rain approx. 6mm.no foam sheen or odour. No nearby works	All parameters are within WQO's
18 Dec 2025, 11:06 AM	EPL114	Upstream west monitoring of Ravine Bay emplacement area	20.56	52	4.69	287	181	7.81	190	4	No recent rain. Clear water, no odour sheen or foam no nearby works	All parameters are within WQO's
1 Dec 2025, 9:10 AM	EPL115	Downstream east monitoring of Ravine Bay emplacement area	12.29	23	2.46	325	211	7.52	243	107	Recent rain approx. 6mm, no foam or sheen or odour. Relatively turbid. No nearby works	All parameters are within WQO's
1 Dec 2025, 10:30 AM	EPL116	Downstream west monitoring of Ravine Bay emplacement area	12.71	63.6	6.74	122	79	6.65	285	377	Recent rain approx. 6mm, no foam sheen or odour turbid water, no nearby works	All parameters are within WQO's
1 Dec 2025, 10:57 AM	EPL117	Downstream monitoring of Ravine Bay emplacement area	12.63	40.1	4.26	131	85	6.74	149	56.6	Recent rain approx. 6mm, no foam sheen or odour, no nearby works, slightly turbid	All parameters are within WQO's

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Snowy Hydro 2.0 Main Works EPL Sampling: 01 - 31 January 2026



Environmental Protection Licence No:	21266
Licensee:	Snowy Hydro Limited
Licensee address:	PO Box 332, Cooma, NSW 2630
Premises:	Snowy 2.0 Pumped Hydro Power Station Talbingo and Tantangara, Kosciuszko National Park and Rock Forest, Kosciuszko NSW 2642
EPA Public Register:	https://apps.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=21266&id=21266&option=licence&searchrange=licence&range=POEO%20licence&prp=no&status=Issued

Monthly water sampling and analysis is performed as part of the Snowy 2.0 Approval Conditions, Environmental Protection Licence No 21266 - Variation 26 September 2025, and the approved Water Management Plan to ensure that works are not impacting on nearby receiving waters.

Surface Water Results: Lobs Hole Surface Water monitoring has recorded an upward trend in Total Kjeldahl Nitrogen (TKN) at upstream locations EPL5 (300 µg/L) and EPL12 (600 µg/L). These TKN elevations are the primary drivers of the reported Total Nitrogen concentrations. Additionally, while Hardness (as CaCO3) increased across all Lobs Hole surface monitoring points (ranging from 9 mg/L to 80 mg/L), these values align with the baseline data for summer/dry conditions as defined in the Surface Water Management Plan. Concerning Tantangara, Total Nitrogen concentrations across all sites trended downward and remained within the WQO. However, some exceedances for Ammonia (as N) were noted at EPL30 and EPL34. These are likely attributable to surrounding animal activity rather than project-related impacts. Monitoring points EPL26 and EPL27 are compliant with all WQO standards for Nutrients. The total rain recorded for January was 27.6mm, which is a large contributing factor in the environmental conditions around the smaller streams and reporting locations which have not been flowing throughout the month.

Reservoir Results: Monitoring at Talbingo Reservoir has identified a significant increase in surface temperatures compared to the previous two reporting periods. This seasonal warming has likely driven a rise in nutrient concentrations notably at EPL109, which recorded 400 µg/L for Total Nitrogen (driven primarily by TKN). Additionally, declining reservoir water levels have resulted in increasing turbidity (NTU) and heightened algal activity within the reservoir. A notable increase in E. coli concentrations was recorded at EPL11 during this period. It is important to highlight that these levels are consistent with seasonal environmental conditions and typically align with higher summer temperatures. Tantangara Reservoir sites continue to show stable trends. Notably, Ammonia at EPL28 dropped from 120 µg/L to <10 µg/L (meeting WQO). Although Total Nitrogen increased at this same site, the elevation is unrelated to project works, as EPL28 represents an upstream reference location.

Discharge Results: As per the latest revision EPL21266, only water within discharge criteria can be released into Talbingo and Tantangara reservoirs from the final discharge points. FGJV is committed to mitigating environmental impacts, so the Environmental Team only permits discharge if all parameters are within WQO's.

Groundwater Results: During the January monitoring period, exceedances of pH and other water quality parameters were observed at both upstream and downstream locations across Marica, Tantangara and Lobs Hole. While upstream electrical conductivity concentrations at EPL56 and EPL57 remained stable (between 232 µS/cm and 262 µS/cm), significant elevations were noted at EPL58 and EPL95, ranging from 800 µS/cm to 950 µS/cm, in comparison with the upgradient conditions. It is important to note that these locations are subject to weekly testing and are situated within active rehabilitation areas. Regarding the nitrogen trends within the reporting period, nutrient concentrations have been recorded in locations which frequently report higher concentration levels outside of the WQO's within GF01 upgradient and downgradient bores, Mainyard (EPL97) which is below the basins and the last borehole location along the downgradient of the natural watercourse. Tantangara emplacement locations both upgradient and downgradient that usually report slightly greater concentrations have remained steady in their exceedances. Increases have been observed in filtered Iron and Chromium at EPL90; however, these fluctuations align with historical trends for this site. Regarding Tantangara Groundwater, most locations remain consistent with historical baselines. Notably, EPL69 and EPL70 showed a downward trend in several metals, including Iron, Lead, Manganese, and Nickel, during this period.

Leachate results: Leachate analysis revealed minor exceedances in pH, electrical conductivity (EC), dissolved oxygen (DO), and turbidity, including comprehensive analytes, these results are within expectations for locations storing leachate water. Elevated nutrients were primarily observed in leachate basin locations and will be discussed further in the dedicated leachate results section.



Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01-31 January 2026 - Groundwater

Analysis	Unit	Limit of Reporting	Water Quality Objective Value*
Physicochemical			
pH	pH Unit	-	6.5-8
Electrical Conductivity	µS/cm	-	20,000
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value
Temperature	°C	-	No Water Quality Objective Value
Dissolved Oxygen	% Saturation	-	No Water Quality Objective Value
Turbidity	NTU	-	No Water Quality Objective Value
Laboratory Analyses			
TSS	mg/L	5	No Water Quality Objective Value
Ammonia as CaCl2	mg/L	1	No Water Quality Objective Value
Metals			
Arsenic as As	µg/L	10	10
Barium - Nitrate as N (BaN)	µg/L	10	10
Cadmium Nitrogen Total	µg/L	100	No Water Quality Objective Value
Chromium (Total)	µg/L	100	200
Copper (Total)	µg/L	1	10
Fluoride (Total)	µg/L	10	20
Iron (Total)	µg/L	4	0
Lead (Total)	µg/L	1	0
Mercury (Total)	µg/L	1	0
Manganese (Total)	µg/L	1	0
Nickel (Total)	µg/L	1	0
Selenium (Total)	µg/L	1	0
Silver (Total)	µg/L	1	0
Vanadium (Total)	µg/L	1	0
Zinc (Total)	µg/L	1	0

EPL06	EPL07	EPL08	EPL09	EPL10	EPL11	EPL12	EPL13	EPL14	EPL15	EPL16	EPL17	EPL18	EPL19	EPL20	EPL21	EPL22	EPL23	EPL24	EPL25	EPL26	EPL27	EPL28	EPL29	EPL30	EPL31	EPL32	EPL33	EPL34	EPL35	EPL36	EPL37	EPL38	EPL39	EPL40	EPL41	EPL42	EPL43	EPL44	EPL45	EPL46	EPL47	EPL48	EPL49	EPL50	EPL51	EPL52	EPL53	EPL54	EPL55	EPL56	EPL57	EPL58	EPL59	EPL60	EPL61	EPL62	EPL63	EPL64	EPL65	EPL66	EPL67	EPL68	EPL69	EPL70	EPL71	EPL72	EPL73	EPL74	EPL75	EPL76	EPL77	EPL78	EPL79	EPL80	EPL81	EPL82	EPL83	EPL84	EPL85	EPL86	EPL87	EPL88	EPL89	EPL90	EPL91	EPL92	EPL93	EPL94	EPL95	EPL96	EPL97	EPL98	EPL99	EPL100	EPL101	EPL102	EPL103	EPL104	EPL105	EPL106	EPL107	EPL108	EPL109	EPL110	EPL111	EPL112	EPL113	EPL114	EPL115	EPL116	EPL117																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
10/01/26	10/02/26	10/03/26	10/04/26	10/05/26	10/06/26	10/07/26	10/08/26	10/09/26	10/10/26	10/11/26	10/12/26	11/01/26	11/02/26	11/03/26	11/04/26	11/05/26	11/06/26	11/07/26	11/08/26	11/09/26	11/10/26	11/11/26	11/12/26	12/01/26	12/02/26	12/03/26	12/04/26	12/05/26	12/06/26	12/07/26	12/08/26	12/09/26	12/10/26	12/11/26	12/12/26	12/13/26	12/14/26	12/15/26	12/16/26	12/17/26	12/18/26	12/19/26	12/20/26	12/21/26	12/22/26	12/23/26	12/24/26	12/25/26	12/26/26	12/27/26	12/28/26	12/29/26	12/30/26	12/31/26	01/01/27	01/02/27	01/03/27	01/04/27	01/05/27	01/06/27	01/07/27	01/08/27	01/09/27	01/10/27	01/11/27	01/12/27	02/01/27	02/02/27	02/03/27	02/04/27	02/05/27	02/06/27	02/07/27	02/08/27	02/09/27	02/10/27	02/11/27	02/12/27	03/01/27	03/02/27	03/03/27	03/04/27	03/05/27	03/06/27	03/07/27	03/08/27	03/09/27	03/10/27	03/11/27	03/12/27	04/01/27	04/02/27	04/03/27	04/04/27	04/05/27	04/06/27	04/07/27	04/08/27	04/09/27	04/10/27	04/11/27	04/12/27	05/01/27	05/02/27	05/03/27	05/04/27	05/05/27	05/06/27	05/07/27	05/08/27	05/09/27	05/10/27	05/11/27	05/12/27	06/01/27	06/02/27	06/03/27	06/04/27	06/05/27	06/06/27	06/07/27	06/08/27	06/09/27	06/10/27	06/11/27	06/12/27	07/01/27	07/02/27	07/03/27	07/04/27	07/05/27	07/06/27	07/07/27	07/08/27	07/09/27	07/10/27	07/11/27	07/12/27	08/01/27	08/02/27	08/03/27	08/04/27	08/05/27	08/06/27	08/07/27	08/08/27	08/09/27	08/10/27	08/11/27	08/12/27	09/01/27	09/02/27	09/03/27	09/04/27	09/05/27	09/06/27	09/07/27	09/08/27	09/09/27	09/10/27	09/11/27	09/12/27	10/01/27	10/02/27	10/03/27	10/04/27	10/05/27	10/06/27	10/07/27	10/08/27	10/09/27	10/10/27	10/11/27	10/12/27	11/01/27	11/02/27	11/03/27	11/04/27	11/05/27	11/06/27	11/07/27	11/08/27	11/09/27	11/10/27	11/11/27	11/12/27	12/01/27	12/02/27	12/03/27	12/04/27	12/05/27	12/06/27	12/07/27	12/08/27	12/09/27	12/10/27	12/11/27	12/12/27	01/01/28	01/02/28	01/03/28	01/04/28	01/05/28	01/06/28	01/07/28	01/08/28	01/09/28	01/10/28	01/11/28	01/12/28	02/01/28	02/02/28	02/03/28	02/04/28	02/05/28	02/06/28	02/07/28	02/08/28	02/09/28	02/10/28	02/11/28	02/12/28	03/01/28	03/02/28	03/03/28	03/04/28	03/05/28	03/06/28	03/07/28	03/08/28	03/09/28	03/10/28	03/11/28	03/12/28	04/01/28	04/02/28	04/03/28	04/04/28	04/05/28	04/06/28	04/07/28	04/08/28	04/09/28	04/10/28	04/11/28	04/12/28	05/01/28	05/02/28	05/03/28	05/04/28	05/05/28	05/06/28	05/07/28	05/08/28	05/09/28	05/10/28	05/11/28	05/12/28	06/01/28	06/02/28	06/03/28	06/04/28	06/05/28	06/06/28	06/07/28	06/08/28	06/09/28	06/10/28	06/11/28	06/12/28	07/01/28	07/02/28	07/03/28	07/04/28	07/05/28	07/06/28	07/07/28	07/08/28	07/09/28	07/10/28	07/11/28	07/12/28	08/01/28	08/02/28	08/03/28	08/04/28	08/05/28	08/06/28	08/07/28	08/08/28	08/09/28	08/10/28	08/11/28	08/12/28	09/01/28	09/02/28	09/03/28	09/04/28	09/05/28	09/06/28	09/07/28	09/08/28	09/09/28	09/10/28	09/11/28	09/12/28	10/01/28	10/02/28	10/03/28	10/04/28	10/05/28	10/06/28	10/07/28	10/08/28	10/09/28	10/10/28	10/11/28	10/12/28	11/01/28	11/02/28	11/03/28	11/04/28	11/05/28	11/06/28	11/07/28	11/08/28	11/09/28	11/10/28	11/11/28	11/12/28	12/01/28	12/02/28	12/03/28	12/04/28	12/05/28	12/06/28	12/07/28	12/08/28	12/09/28	12/10/28	12/11/28	12/12/28	01/01/29	01/02/29	01/03/29	01/04/29	01/05/29	01/06/29	01/07/29	01/08/29	01/09/29	01/10/29	01/11/29	01/12/29	02/01/29	02/02/29	02/03/29	02/04/29	02/05/29	02/06/29	02/07/29	02/08/29	02/09/29	02/10/29	02/11/29	02/12/29	03/01/29	03/02/29	03/03/29	03/04/29	03/05/29	03/06/29	03/07/29	03/08/29	03/09/29	03/10/29	03/11/29	03/12/29	04/01/29	04/02/29	04/03/29	04/04/29	04/05/29	04/06/29	04/07/29	04/08/29	04/09/29	04/10/29	04/11/29	04/12/29	05/01/29	05/02/29	05/03/29	05/04/29	05/05/29	05/06/29	05/07/29	05/08/29	05/09/29	05/10/29	05/11/29	05/12/29	06/01/29	06/02/29	06/03/29	06/04/29	06/05/29	06/06/29	06/07/29	06/08/29	06/09/29	06/10/29	06/11/29	06/12/29	07/01/29	07/02/29	07/03/29	07/04/29	07/05/29	07/06/29	07/07/29	07/08/29	07/09/29	07/10/29	07/11/29	07/12/29	08/01/29	08/02/29	08/03/29	08/04/29	08/05/29	08/06/29	08/07/29	08/08/29	08/09/29	08/10/29	08/11/29	08/12/29	09/01/29	09/02/29	09/03/29	09/04/29	09/05/29	09/06/29	09/07/29	09/08/29	09/09/29	09/10/29	09/11/29	09/12/29	10/01/29	10/02/29	10/03/29	10/04/29	10/05/29	10/06/29	10/07/29	10/08/29	10/09/29	10/10/29	10/11/29	10/12/29	11/01/29	11/02/29	11/03/29	11/04/29	11/05/29	11/06/29	11/07/29	11/08/29	11/09/29	11/10/29	11/11/29	11/12/29	12/01/29	12/02/29	12/03/29	12/04/29	12/05/29	12/06/29	12/07/29	12/08/29	12/09/29	12/10/29	12/11/29	12/12/29	01/01/30	01/02/30	01/03/30	01/04/30	01/05/30	01/06/30	01/07/30	01/08/30	01/09/30	01/10/30	01/11/30	01/12/30	02/01/30	02/02/30	02/03/30	02/04/30	02/05/30	02/06/30	02/07/30	02/08/30	02/09/30	02/10/30	02/11/30	02/12/30	03/01/30	03/02/30	03/03/30	03/04/30	03/05/30	03/06/30	03/07/30	03/08/30	03/09/30	03/10/30	03/11/30	03/12/30	04/01/30	04/02/30	04/03/30	04/04/30	04/05/30	04/06/30	04/07/30	04/08/30	04/09/30	04/10/30	04/11/30	04/12/30	05/01/30	05/02/30	05/03/30	05/04/30	05/05/30	05/06/30	05/07/30	05/08/30	05/09/30	05/10/30	05/11/30	05/12/30	06/01/30	06/02/30	06/03/30	06/04/30	06/05/30	06/06/30	06/07/30	06/08/30	06/09/30	06/10/30	06/11/30	06/12/30	07/01/30	07/02/30	07/03/30	07/04/30	07/05/30	07/06/30	07/07/30	07/08/30	07/09/30	07/10/30	07/11/30	07/12/30	08/01/30	08/02/30	08/03/30	08/04/30	08/05/30	08/06/30	08/07/30	08/08/30	08/09/30	08/10/30	08/11/30	08/12/30	09/01/30	09/02/30	09/03/30	09/04/30	09/05/30	09/06/30	09/07/30	09/08/30	09/09/30	09/10/30	09/11/30	09/12/30	10/01/30	10/02/30	10/03/30	10/04/30	10/05/30	10/06/30	10/07/30	10/08/30	10/09/30	10/10/30	10/11/30	10/12/30	11/01/30	11/02/30	11/03/30	11/04/30	11/05/30	11/06/30	11/07/30	11/08/30	11/09/30	11/10/30	11/11/30	11/12/30	12/01/30	12/02/30	12/03/30	12/04/30	12/05/30	12/06/30	12/07/30	12/08/30	12/09/30	12/10/30	12/11/30	12/12/30	01/01/31	01/02/31	01/03/31	01/04/31	01/05/31	01/06/31	01/07/31	01/08/31	01/09/31	01/10/31	01/11/31	01/12/31	02/01/31	02/02/31	02/03/31	02/04/31	02/05/31	02/06/31	02/07/31	02/08/31	02/09/31	02/10/31	02/11/31	02/12/31	03/01/31	03/02/31	03/03/31	03/04/31	03/05/31	03/06/31	03/07/31	03/08/31	03/09/31	03/10/31	03/11/31	03/12/31	04/01/31	04/02/31	04/03/31	04/04/31	04/05/31	04/06/31	04/07/31	04/08/31	04/09/31	04/10/31	04/11/31	04/12/31	05/01/31	05/02/31	05/03/31	05/04/31	05/05/31	05/06/31	05/07/31	05/08/31	05/09/31	05/10/31	05/11/31	05/12/31	06/01/31	06/02/31	06/03/31	06/04/31	06/05/31	06/06/31	06/07/31	06/08/31	06/09/31	06/10/31	06/11/31	06/12/31	07/01/31	07/02/31	07/03/31	07/04/31	07/05/31	07/06/31	07/07/31	07/08/31	07/09/31	07/10/31	07/11/31	07/12/31	08/01/31	08/02/31	08/03/31	08/04/31	08/05/31	08/06/31	08/07/31	08/08/31	08/09/31	08/10/31	08/11/31	08/12/31	09/01/31	09/02/31	09/03/31	09/04/31	09/05/31	09/06/31	09/07/31	09/08/31	09/09/31	09/10/31	09/11/31	09/12/31	10/01/31	10/02/31	10/03/31	10/04/31	10/05/31	10/06/31	10/07/31	10/08/31	10/09/31	10/10/31	10/11/31	10/12/31	11/01/31	11/02/31	11/03/31	11/04/31	11/05/31	11/06/31	11/07/31	11/08/31	11/09/31	11/10/31	11/11/31	11/12/31	12/01/31	12/02/31	12/03/31	12/04/31	12/05/31	12/06/31	12/07/31	12/08/31	12/09/31	12/10/31	12/11/31	12/12/31	01/01/32	01/02/32	01/03/32	01/04/32	01/05/32	01/06/32	01/07/32	01/08/32	01/09/32	01/10/32	01/11/32	01/12/32	02/01/32	02/02/32	02/03/32	02/04/32	02/05/32	02/06/32	02/07/32	02/08/32	02/09/32	02/10/32	02/11/32	02/12/32	03/01/32	03/02/32	03/03/32	03/04/32	03/05/32	03/06/32	03/07/32	03/08/32	03/09/32	03/10/32	03/11/32	03/12/32	04/01/32	04/02/32	04/03/32	04/04/32	04/05/32	04/06/32	04/07/32	04/08/32	04/09/32	04/10/32	04/11/32	04/12/32	05/01/32	05/02/32	05/03/32	05/04/32	05/05/32	05/06/32	05/07/32	05/08/32	05/09/32	05/10/32	05/11/32	05/12/32	06/01/32	06/02/32	06/03/32	06/04/32	06/05/32	06/06/32	06/07/32	06/08/32	06/09/32	06/10/32	06/11/32	06/12/32	07/01/32	07/02/32	07/03/32	07/04/32	07/05/32	07/06/32	07/07/32	07/08/32	07/09/32	07/10/32	07/11/32	07/12/32	08/01/32	08/02/32	08/03/32	08/04/32	08/05/32	08/06/32	08/07/32	08/08/32	08/09/32	08/10/32	08/11/32	08/12/32	09/01/32	09/02/32	09/03/32	09/04/32	09/05/32	09/06/32	09/07/32	09/08/32	09/09/32	09/10/32	09/11/3

Reservoir

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*
Field			
pH	pH Unit	-	6.5-8
Electrical Conductivity	µS/cm	-	20-30
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value
Temperature	°C	-	No Water Quality Objective Value
Dissolved Oxygen	% saturation	-	90-110
Turbidity	NTU	-	1-20
Laboratory analytes			
Total suspended solids	mg/L	5	No Water Quality Objective Value
Hardness as CaCO ₃ (filtered)	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	µg/L	10	10
Nitrite + Nitrate as N (NOx)	µg/L	10	10
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value
Nitrogen (Total)	µg/L	100	350
Reactive Phosphorus	µg/L	10	5
Phosphorus (Total)	µg/L	10	10
Inorganics			
Cyanide Total	mg/L	4	7
Hydrocarbons			
Oil and Grease	µg/L	1	5
Metals			
Aluminium (dissolved)	µg/L	5	55
Arsenic (dissolved)	µg/L	0.2	13
Chromium (III-VI) (dissolved)	µg/L	0.2	0.01
Copper (dissolved)	µg/L	0.5	1.4
Iron (dissolved)	µg/L	2	300
Lead (dissolved)	µg/L	0.1	3.4
Manganese (dissolved)	µg/L	0.5	1,900
Nickel (dissolved)	µg/L	0.5	11
Silver (dissolved)	µg/L	0.01	0.05
Zinc (dissolved)	µg/L	1	8

[illegible]

Snowy Hydro 2.0 Main Works

Monthly EPL Sampling: 01-31 January 2026 - Surface Water

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*
pH			
pH			6.5-8
Electrical Conductivity	µS/cm		10-100
Oxidation-Reduction Potential	mV		No Water Quality Objective Value
Temperature	°C		No Water Quality Objective Value
Dissolved Oxygen	% saturation		80-110
Turbidity	NTU		2-25
Laboratory analytes			
TSS	mg/L	5	No Water Quality Objective Value
Hardness as CaCO ₃	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	µg/L	10	13
Nitrite + Nitrate as N (NO ₃)	µg/L	100	45
Soluble Nitrogen Total	µg/L	100	No Water Quality Objective Value
Nitrogen (Total)	µg/L	100	250
Reactive Phosphorus	µg/L	10	15
Phosphorus (Total)	µg/L	30	No Water Quality Objective Value
Organics			
Cyanide Total	mg/L	4	4
Hydrocarbons			
Oil and Grease	mg/L	1	No Water Quality Objective Value
Metals			
Aluminium (total)	µg/L	5	No Water Quality Objective Value
Aluminium (dissolved)	µg/L		27
Arsenic (total)	µg/L	0.2	No Water Quality Objective Value
Arsenic (dissolved)	µg/L		5
Chromium (III-VI) (total)	µg/L	0.2	No Water Quality Objective Value
Chromium (III-VI) (dissolved)	µg/L		0.01
Copper (total)	µg/L	0.5	No Water Quality Objective Value
Copper (dissolved)	µg/L		1
Iron (total)	µg/L	2	No Water Quality Objective Value
Iron (dissolved)	µg/L		300
Lead (total)	µg/L	0.1	No Water Quality Objective Value
Lead (dissolved)	µg/L		1
Manganese (total)	µg/L	0.5	No Water Quality Objective Value
Manganese (dissolved)	µg/L		4-200
Nickel (total)	µg/L	0.5	No Water Quality Objective Value
Nickel (dissolved)	µg/L		8
Silver (total)	µg/L	0.01	No Water Quality Objective Value
Silver (dissolved)	µg/L		0.01
Zinc (total)	µg/L	1	No Water Quality Objective Value
Zinc (dissolved)	µg/L		2-4

EP15	EP16	EP18	EP19	EP112	EP114	EP115	EP116	EP124	EP126	EP127	EP130	EP131	EP133	EP134	EP135	EP136	EP137	EP152	EP153	EP154	EP155	EP167	EP171	EP184	EP185	EP186	EP198	EP199	EP1100	EP1001	EP1106	EP1110	EP1118	EP1119	EP1120	EP1122			
9/01/26	9/01/26	9/01/26	9/01/26	9/01/26	9/01/26	9/01/26	9/01/26	Dry	17/01/26	17/01/26	13/01/26	13/01/26	13/01/26	13/01/26	13/01/26	24/01/26	24/01/26	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	17/12/2026	17/12/2026	3/01/2026	Dry	Dry	3/01/26	Dry	Dry			
8.31	8.17	8.31	8.27	8.36	8.27	8.38	8.58	Dry	6.38	7.42	7.28	7.35	7.35	7.36	8.39	8.37	8.39	8.37	8.39	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	7.52	Dry	6.17	6.31	Dry	Dry	8.38	8.31			
155	150	172	157	156	154	156	155	Dry	86	46	30	31	29	41	38	48	60	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	394	Dry	951	2,159.05	Dry	Dry	1870	Dry			
184	182	194	183	187	184	187	191	180	Dry	176	148	152	195	197	173	182	178	206	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	82	Dry	198	65	Dry	Dry	103	Dry			
21.36	21.07	24.42	24.49	24.61	22.52	24.31	26.98	Dry	11.18	11.21	15.63	15.52	16.75	14.49	14.53	18.49	22.99	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	14.12	Dry	11.41	23.01	Dry	Dry	25.93	Dry			
88.3	77.8	64	85.4	81.6	75	67.6	100.9	Dry	87.8	46.8	74.3	63.7	72.9	90.1	78.7	80.3	65.7	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	70.1	Dry	70.1	118.5	Dry	Dry	66.8	Dry			
4.7	6.8	3.14	0.85	2.6	0.74	0.67	0.4	Dry	10.2	1.7	1.97	0.7	22.1	0.4	1.88	13.2	70.9	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	38.4	Dry	145	28.2	Dry	Dry	3.6	Dry			
<5	<5	<5	<5	<5	<5	<5	<5	12	<5	<5	<5	<5	<5	<5	<5	<5	24	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	21	Dry	30	<5	Dry	Dry	10	Dry			
80	72	80	80	80	77	80	71	16	16	13	9	9	13	13	13	13	13	17	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	128	Dry	211	518	Dry	Dry	556	Dry			
<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	2,180	Dry	60	40	Dry	Dry	10	Dry			
30	<10	90	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	20	30	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	9,320	Dry	18,500	78,800	Dry	<10	Dry				
300	<10	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	2,300	Dry	4,600	7,200	Dry	<100	Dry				
300	<10	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	11,900	Dry	22,500	86,000	Dry	<100	Dry			
<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	<10	<10	<10	<10	<10	<10	<10	Dry			
<10	10	10	<10	20	<10	<10	<10	<10	20	20	10	<10	<10	<10	<10	30	50	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	<10	<10	160	30	Dry	<10	<10	Dry			
<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	<4	Dry	<4	4	Dry	Dry	<4	Dry				
<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	<1.0	Dry	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	Dry		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	<1.0	Dry	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	Dry		
<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	17	18	37	14	16	10	10	32	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	8	Dry	<5	<5	Dry	<5	Dry	<5	Dry		
0.7	0.5	0.7	0.7	0.7	0.7	0.7	0.8	<0.2	<0.2	<0.2	<0.2	0.3	0.2	0.3	0.3	0.3	0.6	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	4.4	Dry	3.5	2.7	Dry	1.8	Dry	<1.0	Dry			
<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	2.8	Dry	2.3	1.4	Dry	0.6	Dry	<0.5	Dry		
<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	0.5	Dry	1.1	0.5	Dry	<0.5	Dry	<0.5	Dry		
7	28	15	11	6	8	8	10	43	19	32	39	236	88	107	163	163	366	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	<2	Dry	<2	3	Dry	Dry	<2	Dry	Dry		
<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	<0.1	Dry	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	Dry	
3.9	4.4	2	2.7	1.1	1	1.7	2.7	5.9	2.3	2.2	1.9	1.8	3.6	3.9	69	69	1.7	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	<0.5	Dry	12.4	0.8	Dry	Dry	<0.5	Dry	Dry		
<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	<0.5	Dry	2.1	1.9	Dry	Dry	4	Dry	Dry		
<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	<0.01	Dry	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Dry
<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	Dry



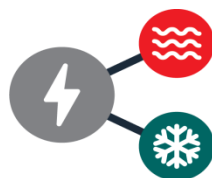
Snowy Hydro 2.0 Main Works

Monthly EPL Sampling: 01-31 January 2026 - Discharge Water



Analyte	Unit	Limit of Reporting	Water Quality Objective Value*
Flow Rate			
Inflow [#]	ML/day	-	-
Outflow [#]	ML/day	-	4.32 (EPL 43 / 50)
Field			
pH	pH Unit	-	6.5-8.5
Electrical Conductivity	µS/cm	-	700 (EPL 41) / 200 (EPL 50)
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value
Temperature	°C	-	No Water Quality Objective Value
Dissolved Oxygen	% saturation	-	No Water Quality Objective Value
Turbidity	NTU	-	<25
Laboratory analytes			
Total suspended solids	mg/L	5	5
Hardness as CaCO ₃ (filtered)	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	µg/L	10	1
Nitrogen (Total)	µg/L	100	1.5
Phosphorus (Total)	µg/L	10	0.3
Inorganics			
Cyanide Total	µg/L	4	No Water Quality Objective Value
Hydrocarbons			
Oil and Grease	mg/L	1	2
Metals			
Aluminium (dissolved)	µg/L	5	55
Arsenic (dissolved)	µg/L	0.2	13
Chromium (III+VI) (dissolved)	µg/L	0.2	1
Copper (dissolved)	µg/L	0.5	14
Iron (dissolved)	µg/L	2	300
Lead (dissolved)	µg/L	0.1	3.4
Manganese (dissolved)	µg/L	0.5	1,900
Nickel (dissolved)	µg/L	0.5	11
Silver (dissolved)	µg/L	0.01	0.05
Zinc (dissolved)	µg/L	1	8
Biological			
Faecal Coliforms	CFU/100mL	1	10
Biological Oxygen Demand	mg/L	2	3.5

EPL 41	EPL 50
14/1/2026	26/1/2026
-	-
-	-
8.26	7.36
28	111.9
136	117.9
25.73	20.7
94.3	86.8
1.1	0.56
<5	<5
<1	<1
<10	80
<100	900
<10	<10
<4	<4
<1.0	<1.0
<5	<5
<0.2	0.2
<0.2	0.8
<0.5	<0.5
<2	<2
<0.1	<0.1
<0.5	<0.5
<0.5	<0.5
<0.01	<0.01
<1	<1
<1	<1
<2	<2



Future Generation
Webuild • (

Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01-31 January 2026 - Volumes

Date
1/01/2026
2/01/2026
3/01/2026
4/01/2026
5/01/2026
6/01/2026
7/01/2026
8/01/2026
9/01/2026
10/01/2026
11/01/2026
12/01/2026
13/01/2026
14/01/2026
15/01/2026
16/01/2026
17/01/2026
18/01/2026
19/01/2026
20/01/2026
21/01/2026
22/01/2026
23/01/2026
24/01/2026
25/01/2026
26/01/2026
27/01/2026
28/01/2026
29/01/2026
30/01/2026
31/01/2026

EPL 43 *	EPL 50 ^
Discharge volume (Megalitres)	
-	0.18
0.45	-
0.43	-
0.37	0.53
0.24	-
-	0.54
0.29	-
-	0.36
-	-
-	-
-	-
-	0.18
-	0.28
-	0.56
-	0.19
-	-
0.30	0.30
-	0.55
-	0.39
-	0.35
-	0.31
-	0.29
-	0.19
-	-
-	0.28
-	0.14
-	-
-	-
-	-
-	0.12
-	-

- Water not discharged on this day

Note: The EPL discharge volume limit for EPL 43 and 50 is 4.32 megalitres per day. Compliance with this criteria was met during the reporting month.



EPL 21266 In Situ Water Quality Measurements

EPL Monthly In-Situ Monitoring January 2026

Table 1 - Surface Water Quality Data
River and Minor Watercourses

Table 1 - Surface Water Quality Data River and Minor Watercourses			Water Quality Objectives									
			Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)		
			-	90 - 110	-	30 - 350	-	6.5 - 8.0	-	2 - 25		
Date and Time	EPL Site ID	Location Description	Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)	Field Comments	Context
9/01/2026 9:41	EPL5	Yarrangobilly River, upstream of the exploratory tunnel and construction pad	21.36	88.3	7.81	155	101	8.31	184	4.7	Sunny day, high temperature raised lately, the flow decreased significatly in comparation with the previous periods, very clear water, no odour	Elevated pH and low DO (%) is representative of seasonal temperature increases and is within baseline water quality results summary found in the surface water management plan, (Table D.1 page 126), which refers to frequent exceedances during the summer / autumn months in both pH and DO.
9/01/2026 10:10	EPL6	Wallaces Creek, upstream of Yarrangobilly River and Wallaces Creek confluence	21.07	77.8	6.93	150	98	8.17	192	0.8	Sunny day, very low and slow flowing, clear water, no odour	Low DO (%) and elevated pH is consistent with seasonal temperature increases and is within the baseline water quality results summary in the surface water management plan, stating that frequent exceedances in DO and pH in the summer months (Table D.1 page 126). Low turbidity is consistent with the upstream locations and considered ambient for a clear water stream.
9/01/2026 11:08	EPL8	Yarrangobilly River, downstream of Lick Hole Gully	24.42	64	5.34	172	112	8.13	194	1.14	Sunny day, warn water, clear water, low flowing, no odour	Low DO (%) and elevated pH is considered as seasonal due to temperature increases and is within the baseline surface water quality results summary in the SWMP (Table D.1 page 126). Low turbidity is consistent with the upstream locations.
9/01/2026 11:23	EPL9	Yarrangobilly River, downstream of the accommodation camp and upstream of Talbingo Reservoir	24.39	85.4	7.13	157	102	8.27	193	0.85	Sunny day, warn water, slow flow, the water level has reduced, clear water, no odour	Low DO (%) and elevated pH is representative of seasonal temperature increases and is within the baseline water quality results summary (Table D.1 page 126) in the surface water management plan. Low turbidity is consistent with the upstream locations and considered ambient for a clear water stream.
9/01/2026 9:55	EPL12	Yarrangobilly River, immediately downstream of portal pad	21.61	81.6	7.19	156	101	8.36	187	2.6	Sunny day, low flowing, very clear water, no odour	Low DO (%) and elevated pH is representative of seasonal temperature increases and is within the baseline water quality results summary in the surface water management plan (Table D.1 page 126).
9/01/2026 10:24	EPL14	Yarrangobilly River, downstream of road construction areas	22.52	75	6.49	154	100	8.27	191	0.74	Sunny day, very warm day, low and slow flow, very clear water, no odour	Low DO (%) and elevated pH is representative of seasonal temperature increases and is within the baseline water quality results summary in the surface water management plan (Table D.1 page 126). Low turbidity is consistent with the upstream locations.
9/01/2026 10:55	EPL15	Yarrangobilly River, downstream of road construction areas	24.26	67.6	5.66	156	101	8.33	192	0.67	Synny day, low and slow flowing, no odour, very clear water	Low DO (%) and elevated pH is representative of seasonal temperature increases and is within the baseline water quality results summary in the surface water management plan (Table D.1 page 126) stating frequent exceedances during the warmer summer and autumn months. Low turbidity is consistent with the upstream locations.
9/01/2026 14:17	EPL16	Yarrangobilly River, downstream of road construction areas	29.88	100.9	7.64	155	101	8.58	180	0.4	Hot sunny day. No recent rain. Very warm water. Very clear. No odours.	Elevated pH is representative of seasonal temperature increases and is within the baseline water quality results summary in the surface water management (Table D.1 page126) plan.
9/01/2026 11:37	EPL24	Yarrangobilly River tributary (Watercourse 2), directly downstream of road	-	-	-	-	-	-	-	-	Very reduced flow and not representative for sampling	Location was not sampled due to low water levels and it's not representative for sampling.
17/01/2026 7:30	EPL26	Eucumbene River downstream of Marica Road	11.18	87.8	9.64	86	56	6.38	176	10.2	Low flow, evidence of animal activity, slight sheen in the still water to the side (see photo). No sheen in running water, no odors. Cold windy day, rainfall on and off prev 24hrs.	The recorded concentrations are representative of the upgradient environmental conditions consistently observed within previous monitoring rounds at this location due to the lack of construction activities in this area. A slight sheen is noticable in an indentation caused by hard hooved animals on the edge of the waterway.
17/01/2026 7:39	EPL27	Eucumbene River upstream of Marica Road	11.21	46.8	5.13	46	30	6.63	148	1.7	Low flow, water seems still - not rushing. No odors, no sheens, very cold and windy day. Little rain within 24hrs. QA taken here	Physio-chemical measurements are consistent with the environmental conditions observed at this upgradient location.
13/01/2026 9:37	EPL30	Kellys Plain Creek, downstream of accommodation camp and laydown areas	15.63	74.8	7.43	39	25	7.42	192	1.97	Clear day. No recent rain. Water clear. Low flow and level. Turbity measured with Hach meter.	Low DO% is historically consistent with previous sampling rounds.
13/01/2026 9:51	EPL31	Kellys Plain Creek, upstream of accommodation camp and laydown areas	15.52	63.7	6.35	31	20	7.29	195	0.7	Clear day. No recent rain. Water clear. Low flow and level. Signs of hard hooved animal activity near sample point.	Low DO% is historically consistent with previous sampling rounds at this upgradient location.
13/01/2026 9:10	EPL33	Murrumbidgee River, downstream of Tantangara reservoir outlet	19.75	72.9	6.66	29	19	7.35	197	22.1	Clear day. No recent rain. Water clear. Water level low. Medium flow. Reservoir discharging at time of sample collection.	Low EC and DO (%) is representative of the environmental conditions for this location, it is slightly greater than the naturally occuring streams in the surrounding area, though that could be attributed to the outlet discharging at time of sampling.
13/01/2026 8:37	EPL34	Nungar Creek, upstream of Tantangara Road	14.49	90.1	9.19	41	26	7.84	173	0.4	Clear day. No recent rain. Water level low. Low flow. Water clear.	Low turbidity is considered ambient for an upgradient clear water stream. All other parameters are within WQO's.



EPL 21266 In Situ Water Quality Measurements

EPL Monthly In-Situ Monitoring January 2026												
13/01/2026 8:44	EPL35	Nungar Creek, downstream of Tantangara Road	14.53	78.7	8.02	38.0	25	7.56	182	1.7	Clear day. No recent rain. Water clear. Water low flow and level. Turbity measured with Hach meter.	The recorded concentrations are representative of the environmental conditions consistently observed at this location.
24/01/2026 12:09	EPL 36	Camerons Creek, upstream of works in Rock Forest	18.49	80.3	7.53	48	31	6.35	178	11.2	Low turbidity, no odour in sample, animal manure odour in area, warm sunny day	Low DO% and pH are representative of the environmental conditions at this upstream location.
24/01/2026 12:42	EPL 37	Camerons Creek, downstream of works in Rock Forest	22.99	65.7	5.64	60	39	6.57	206	70.9	Turbid, no odour detected, warm sunny day, low flow, located in paddock with livestock	Low DO% and pH is considered representative of the environmental conditions for this location.
12/01/2026 11:55	EPL52	GF01 leachate basin	-	-	-	-	-	-	-	-	Water level too low to sample safely.	Location was not sampled due to low water levels.
-	EPL53	GF01 surface water upstream east	-	-	-	-	-	-	-	-	-	This location is dry
-	EPL54	GF01 surface water upstream west	-	-	-	-	-	-	-	-	-	This location is dry
19 Jan 2026, 10:13 AM	EPL55	GF01 surface water downstream	-	-	-	-	-	-	-	-	No water flowing	Location was not sampled due to low water levels.
-	EPL67	Nungar Creek surface water downstream west from Tantangara emplacement area	-	-	-	-	-	-	-	-	-	The reservoir level at Tantangara is low and is not representative sample.
17/01/2026 9:21	EPL71	Surface water downstream of Marica emplacement	-	-	-	-	-	-	-	-	Dry	This location is dry
-	EPL84	F8 Basin	-	-	-	-	-	-	-	-	-	Location was not sampled due to low water levels.
27/01/2026 9:23	EPL85	MY07 Basin	-	-	-	-	-	-	-	-	Too low for sample collection	Location was not sampled due to low water levels.
27/01/2026 9:27	EPL86	LHG01 Basin	-	-	-	-	-	-	-	-	Too dry to sample	Location was not sampled due to low water levels.
19/01/2026 9:53	EPL98	Rock blanket diversion monitoring under GFO1 liner	-	-	-	-	-	-	-	-	Dry	This location is dry
17/01/2026 9:55	EPL99	Marica Leachete Basin- Turkey's Nest	14.12	70.1	7.2	394	256	7.62	82	38.4	Green water, no sheen, no odor, very windy and cold	Site is leachate storage infrastructure.
17/01/2026 8:39	EPL100	Marica Lower Leachate Basin USS Shaft	15.73	77.6	7.69	538	345	8.33	88	59.3	Too low to sample	Site is leachate storage infrastructure.
17/01/2026 8:25	EPL101	Marica Leachate Basin Spoil Pad	11.41	70.1	7.64	921	589	6.17	196	145	Very windy and cold, no sheen, no odor, slight green colour.	Site is leachate storage infrastructure.
3/01/2026 9:55	EPL106	Ravine Bay Leachate basin 1	23.01	118.5	10.1	2,120.00	1360	8.91	65	28.2	Greenish in colour. Basin 20% full. Small amount of algae observed at corner. No rainfall in last 24 hrs	Site is leachate storage infrastructure.
3/01/2026 11:34	EPL110	Upstream monitoring of Ravine Bay emplacement area	-	-	-	-	-	-	-	-	Location dry	Location was not sampled due to low water levels.
3/01/2026 12:18	EPL118	Ravine Bay Leachate basin 2	-	-	-	-	-	-	-	-	Location dry	Location was not sampled due to low water levels.
13/01/2026 10:49	EPL119	Ravine Bay Leachate basin 3	23.7	69.8	5.87	2,040.00	1,300.00	7.64	67	28	No recent rain, slightly turbid, no foam sheen or odour	Site is leachate storage infrastructure.
3/01/2026 12:15	EPL120	Ravine Bay Leachate basin 4	-	-	-	-	-	-	-	-	Brown coloured water, no inflows observed, possibility of groundwater in the basin, no sample taken , water level too low	Location was not sampled due to low water levels.
12/01/2026 10:11	EPL122	GF01 Drainage Line (Formerly EPL 55b)	-	-	-	-	-	-	-	-	Site dry.	Location was not sampled due to low water levels.



EPL 21266 In Situ Water Quality Measurements

Table 2 - Reservoir Water Quality Data

EPL Monthly In-Situ Monitoring January 2026

Water Quality Objectives												
Talbingo and Tantangara Reservoirs			Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)		
			-	90 - 110	-	20 - 30	-	6.5 - 8.0	-	1 - 20		
Date and Time	EPL Site ID	Location Description	Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)	Field Comments	Context
11/01/2026 8:58	EPL10	Talbingo Reservoir, downstream of road works and upstream of water intake point	23.32	66.1	5.64	121	79	7.78	167	2.5	Sunny day, no odour, clear water, no algae visible	pH and EC measurements were accompanied by elevated water body temperatures and a notable lack of water movement. Water levels within Reservoir were notably low.
11/01/2026 8:47	EPL11	Talbingo Reservoir, downstream of outlet	23.09	75.8	6.49	79	51	8.2	151	7.7	Sunny day, no odour, clear water, no algae visible	Slightly elevated pH, EC and low DO (%) could be attributed to seasonal conditions as the reservoir temperature increases as observed in the data produced by previous monioring rounds.
26/01/2026 9:11	EPL28	Tantangara Reservoir, upstream of works in the mouth of the Murrumbidgee River	19.7	87.7	8.03	30.2	22	7.67	112.8	4.77	Turbid water, low depth. No odour or sheen. Sunny day with minimal wind.	Elevated EC and low DO (%) could be attributed to the temperature increase at the time of the sample collection as seen in previous monitoring rounds.
26/01/2026 9:55	EPL29	Tantangara Reservoir, downstream of works area and upstream of lower Murrumbidgee River	19.8	87.8	8.01	25.9	19	7.05	137.6	3.56	Turbid water, low depth. No odour or sheen. Sunny day with minimal wind.	Low DO (%) is reflective of upstream locations (EPL39 and EPL40).
26/01/2026 9:50	EPL32	Tantangara Reservoir, Tantangara Intake. Downstream of construction works	19.8	88.2	8.06	26.2	19	7.1	133.7	2.83	Turbid water. No odour or sheen. Sunny day with minimal wind.	Low DO (%) is consistent with upstream locations(EPL39 and EPL40).
26/01/2026 9:41	EPL38	Tantangara Reservoir, variable location dependant on tide and reservoir levels. Between the emplacement area and the ancillary facilities for emplacement activities	20.1	88.4	8.02	26.7	19	6.91	154.6	4.0	Turbid water, low depth. No odour or sheen. Sunny day with minimal wind.	Low DO (%) is representative of upstream locations (EPL39 and EPL40).
13/01/2026 13:47	EPL39	Confluence of Nungar Creek and Tantangara Reservoir, variable location dependent on tide and reservoir levels. Upstream of Tantangara construction works	24.13	75	6.3	26	17	6.84	196	35.5	Clear day. No recent rain. Water flowing slowly. Level low. Signs of hard hooved animals at sample point.	This is an upstream location and has not been affected by the project.
26/01/2026 9:19	EPL40	Confluence of the upper Murrumbidgee River and Tantangara Reservoir, variable location dependent on tide and reservoir levels. Upstream of works	20.2	88.2	7.98	29.7	21	6.78	146.1	4.19	Turbid water, low depth. No odour or sheen. Sunny day with minimal wind. Vegetation growth visible	This is an upstream location and there has been no construction works in this area.
26/01/2026 10:05	EPL 51	Tantangara Reservoir, downstream of Tantangara STP/PWTP diffuser outlet	19.8	88	8.04	26	19	7	136	4.75	Turbid water, low depth. No odour or sheen. Sunny day with minimal wind.	Low DO (%) is consistent with upstream locations.
11/01/2026 8:33	EPL107	Upstream monitoring of Ravine Bay emplacement area within Yarrangobilly River	22.32	106.2	9.23	58	38	8.19	141	7	Sunny day, clear water, no odourfe	The minor elevation in EC and pH is consistent with the historical data for this location.
11/01/2026 8:26	EPL108	Monitoring of Ravine Bay emplacement area (center of PSE) within Yarrangobilly River	21.52	82.2	7.26	46	30	8.25	133	8.4	Sunny day but a bit colder, clear water, no odour	The minor elevation in EC is consistent with the historical data for this location. Slightly elevated pH and EC are consistent with the upstream location.
11/01/2026 8:15	EPL109	Upstream monitoring of Ravine Bay emplacement area within Yarrangobilly River	20.61	93.4	8.39	45	29	8.42	115	1.43	Sunny but a bit cold morning, clear water, no odour, QA for this location	Slightly elevated pH and EC are consistent with the upstream location.

Table 3 - Treated Water Quality Data

Water Quality Objectives												
Talbingo			Temp (°C)	DO	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)		
			-	-	-	700	-	6.5 - 8.5	-	25		
Date and Time	EPL Site ID	Location Description	Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)	Field Comments	Context
14/01/2026 9:07	EPL41	Lobs Hole STP/PWTP Final Effluent Quality Monitoring Point. Downstream of final treatment, prior to discharge to Talbingo Reservoir.	25.73	94.3	7.69	28	18	8.26	136	1.1	Sample area clean and tidy. QA’s taken here. Water temperature at 25.73.	All reading are within WQO limits.

Table 4 - Treated Water Quality Data

Water Quality Objectives												
Tantangara			Temp (°C)	DO	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)		
			-	-	-	168	-	6.5 - 8.5	-	25		
Date and Time	EPL Site ID	Location Description	Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)	Field Comments	Context
26/01/2026 7:57	EPL50	Tantangara STP/PWTP Final Effluent Quality Monitoring Point. Downstream of final treatment, prior to discharge to Tantangara Reservoir.	20.7	86.8	7.79	111.9	79	7.36	117.9	0.56	Clear flowing water from tap. No odour or sheen. Sunny day, minimal wind. QA's here	All reading are within WQO limits.



EPL 21266 In Situ Water Quality Measurements

EPL Monthly In-Situ Monitoring January 2026

Table 5 - Groundwater Quality Data
GF01 Surface Water and Groundwater

Water Quality Objectives							
Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)
-	90 - 110	-	30 - 350	-	6.5 - 8.0	-	2 -25

Date and Time	EPL Site ID	Location Description	Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)	Field Comments	Context
12/01/2026 10:43	EPL56	GF01 groundwater upstream east	17.6	32.6	3.11	232	151	7.09	139	1.2	Sunny day. Clear water. No odour. Emplacement area above height of bore. Concrete plinth breaking down.	Slightly low DO (%) is consistent with the historical data for this upstream location.
12/01/2026 11:01	EPL57	GF01 groundwater upstream west	19.87	31.3	2.85	262	171	7.91	134	20.6	Sunny day. Clear water. No recent rain. Spoil above bore. Concrete plinth breaking down.	Slightly low DO (%) is consistent with the historical data for this upstream location.
19/01/2026 10:03	EPL58	GF01 groundwater downstream	18.27	87	8.16	946	605	6.07	144	6.4	Clear water, no odor, no sheen, no rain prev	EC concentrations being above the WQO's is within the historical conditions recorded in previous monitoring rounds, as is the slightly lower pH and DO (%).
31/01/2026 9:55	EPL68	Tantangara groundwater downstream West	15.79	60.4	5.99	23	15	5.32	289	11.5	Hot day. No recent rain. Water clear. Water extracted using electric bore pump.	Low pH, EC and DO is generally consistent with the historical data for this location. These fall in line with current seasonal changes.
23/01/2026 13:18	EPL69	Tantangara groundwater downstream East	15.59	46.7	4.65	51	33	5.89	233	82.4	Hot sunny day, slightly turbid, no odours	Low pH and DO is generally consistent with the historical data for this location. These fall in line with current seasonal changes.
23/01/2026 12:09	EPL70	Tantangara groundwater upstream	14.27	121.1	12.39	221	144	7.28	130	109	Sunny hot day, slightly turbid stratified water, no odours	This location is upgradient of works and therefore representative of background conditions.
24/01/2026 9:04	EPL 72	Marica groundwater upstream	13.28	110.8	11.6	97	63	6.16	254	17.25	High clarity, no odours, sunny day	This location is upgradient of works and therefore representative of background conditions.
12/01/2026 10:58	EPL80	Lick Hole Gully groundwater upstream	20.61	5.2	0.46	951	608	6.79	6	151	Clear day. No recent rain. Water orange colour. Sediment in base of sleeve.	This location is upgradient of works and therefore representative of background conditions.
27/01/2026 9:34	EPL81	Lick Hole Gully groundwater downstream	20.67	23.7	2.12	934	598	6.63	-17	40	Clear water no odor, no works nearby	Elevated EC and low DO align with upgradient conditions of works.
12/01/2026 11:13	EPL82	Main Yard groundwater upstream	20.68	86.9	7.72	284	1.81	6.7	-24	62.1	Clear day. No recent rain. Water clear. Slight sulphuric odour.	This location is upgradient of works and therefore representative of background conditions.
12/01/2026 9:39	EPL83	Main Yard groundwater downstream	17.92	5.7	0.54	579	370	6.46	17	12.7	Clear day. No recent rain. Water clear no odour or sheen. Water extracted using electric bore pump.	Elevated EC and low DO aligns with results up gradient of works.
27/01/2026 9:07	EPL87	Main Yard groundwater downstream	17.98	122	11.52	838	536	7.11	217	23.5	No depth measured due to pump installation Clear water, no odor no works ongoing in area, hot dry weather. Noted as much clearer than usual, not heavily turbid like usual	Elevated EC and low DO aligns with results up gradient of works.
12/01/2026 8:55	EPL88	Main Yard groundwater downstream	16.01	77.8	7.66	980	627	7.12	-43	5.2	Clear day. No recent rain. Water clear no odour or sheen.	Elevated EC and low DO aligns with results up gradient of works.
27/01/2026 9:50	EPL89	Lick Hole Gully groundwater downstream	18.49	109.4	10.24	421	274	7.25	90	174	Turbid water, had to redid for a full sample sleeve. No odors, no sheen. No prev rain. Very dry.	Elevated EC consistent with background conditions for this location.
19/01/2026 10:47	EPL 90	GF01 groundwater downstream	22.01	84.1	7.35	95	62	7.44	162	10.5	Clear water, no odor, no sheen	Low DO is generally consistent with the historical data for this location.
12/01/2026 10:00	EPL 91	GF01 groundwater downstream	16.03	50.5	4.97	249	162	6.96	-15	10.5	Sunny day. No recent rain. No smell. Clear water.	Low DO is generally consistent with the historical data for this location.
12/01/2026 11:25	EPL 92	GF01 groundwater downstream	17.84	104.4	9.91	125	81	6.8	169	721	Sunny day. No recent rain. Milky coloured water. No odour.	High turbidity is consistent with this location's historical data.
12/01/2026 11:35	EPL 93	GF01 groundwater downstream	17.2	39.7	3.82	237	154	7.04	-10	1000	Sunny day. No recent rain. Very turbid, greater than 1000ntu.	Low DO aligns with historical data for this location. Turbity has been high in this location during previous sampling rounds.
12/01/2026 11:44	EPL 94	GF01 groundwater downstream	17.62	19	1.81	176	115	6.78	39	53.7	Summy day. No recent rain. No odour. Slightly orange yellow water.	Low DO aligns with historical data and the upstream location. Turbity is within the range of previous sample rounds in this location.
19/01/2026 10:01	EPL 95	GF01 groundwater downstream	19.59	83.5	7.64	876	561	6.1	138	92.6	Clear water no odor, no sheen	Elevated EC and low pH have been consistent at this location for this current seasonal range. DO is consistent with the upgradient location.
19/01/2026 9:46	EPL 96	GF01 groundwater downstream	17.01	88	8.49	510	326	6.89	131	1000	Very turbid water, piping cracked and Brocken for as far as I can see down. No odors, no sheen. 1000 ntu is representative of water conditions	Elevated EC and low DO are consistent with historical ranges for this location.



EPL 21266 In Situ Water Quality Measurements

EPL Monthly In-Situ Monitoring January 2026												
19/01/2026 10:59	EPL 97	GF01 groundwater downstream	20.8	92.4	8.27	501	320	6.67	163	24.6	Clear water, no odor, no sheen	Elevated EC is consistent at this location for this current seasonal range.
23/01/2026 12:25	EPL103	Upstream groundwater monitoring west of the Tantangara emplacement area	14.53	65.6	6.68	65	42	6.88	156	4.6	Hot sunny day, high clarity, no odours,	This location is upgradient of works and therefore low DO is considered representative of background conditions.
23/01/2026 12:41	EPL104	Dowslope groundwater monitoring east of the Tantangara emplacement area	15.75	51.8	5.14	62	41	6.13	201	13.6	Hot sunny day, high clarity, no odours,	Low DO aligns with results upgradient of PSE. The pH concentration is slightly outside of the WQO's however consistent with low levels throughout Tantangara PSE area.
23/01/2026 12:57	EPL105	Dowslope groundwater monitoring east of the Tantangara emplacement area	14.76	55.7	5.64	107	71	5.63	245	15.7	qa_tan01 and QA_TAN02 collected here, sunny hot day, clear water, no dtb or dtw due to pump setup on well	Low DO and pH are consistent with historical data for this location.
13/01/2026 10:22	EPL113	Upstream east monitoring of Ravine Bay emplacement area	16.2	3.4	0.34	126	82	6.42	110	22	No recent rain slightly turbid, no foam sheen or odour. No nearby works	This is an upgradient location and not affected by project activities.
3/01/2026 11:57	EPL114	Upstream west monitoring of Ravine Bay emplacement area	20.45	30	2.7	371	241	7.15	132	0	Clean water sample. No odour. No rainfall in last 24 hrs	This location is upgradient of works and therefore representative of background conditions.
3/01/2026 12:33	EPL115	Downstream east monitoring of Ravine Bay emplacement area	20	103.9	9.43	354	230	7.61	130	3.7	Clear water. No odour. No rainall in last 24 hrs. Hydromulched around the batter.	Elevated EC directly aligns with results upgradient of PSE.
3/01/2026 10:11	EPL116	Downstream west monitoring of Ravine Bay emplacement area	17.72	84	7.99	163	106	7.35	157	274.00	Slightly turbid water. No odour. No rainfall in last 24 hrs.	DO is elevated compared to the upgradient location these results are similar in comparison to January 2025. Turbity is noted in the field notes and also the physio-chemical results.
13/01/2026 9:54	EPL117	Downstream monitoring of Ravine Bay emplacement area	16.03	9.6	0.95	169	110	7.16	-48	68.3	Turbid water, no odour, sheen or foam. No nearby works. No recent rain	DO % is low at this location and is comparative of January 2025.



Snowy 2.0 Environmental Protection License Water Quality Results

Monitoring Period	1 - 28 February 2026
Environmental Protection Licence No:	21266
Licensee:	Snowy Hydro Limited
Licensee address:	PO Box 332, Cooma, NSW 2630
Premises:	Snowy 2.0 Pumped Hydro Power Station Talbingo and Tantangara, Kosciuszko National Park and Rock Forest, Kosciuszko NSW 2642

SUMMARY	
Groundwater Water Quality Results:	February analytical results reported EC concentrations as greater than the WQO's within 17 of the 32 locations monitored, with the greatest observation understood to be reflective of the natural characteristics within Lick Hole Gully. With exception to EPL105, highly pronounced temperature variations are notable across the Project sites as higher temperatures recorded within Lobs Hole monitoring locations compared to the other sites. EPL114 reported the lowest DO% of 0.4% however the location is upgradient of Project works. Rainfall volumes recorded during the reporting period are anticipated to have influenced the elevated analytical results due to increased infiltration and vertical migration within Monitoring Zones such as GF01 and Ravine Bay.
Reservoir Water Quality Results:	Elevated temperatures are greatest within Talbingo Reservoir as Tantangara locations report typical temperatures as up to 6 degrees colder. is typically three begins to transition with the season. The elevated coliform results are typical for both water bodies during February, however this reporting period noted analytical consistency between all locations regarding nutrients.
Surface Water Quality Results:	Surface water results during this period reflect the warmer weather conditions recorded throughout the reporting period with exception given to the more alpine streamlines such as EPL31 and EPL34. Over 150 mm of rainfall was reported across the Project sites throughout the reporting period, which typically results in elevated turbidity and EC concentrations and alterations to pH records.
Discharge Water Quality Results:	Discharge concentrations were within the WQO and EPL concentration limits.
Leachate Water Quality Results:	Leachate management containment systems are designed to control waters comprising elevated concentrations across the analytical suite.



Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01-28 February 2026 - Groundwater

Analyte	Unit	Limit of Reporting	Water Quality Objectives
Physicochemical			
pH	unitless	-	6.5-8
Electrical Conductivity	µS/cm	-	<100
Dissolved Reactive Phosphate	mg/L	-	No Water Quality Objective Value
Dissolved Silica	mg/L	-	No Water Quality Objective Value
Dissolved Sulfate	mg/L	-	<500
Temperature	°C	-	2-20
Organic Analyses			
2,4,6-Trihalogenoanisoles	µg/L	5	No Water Quality Objective Value
2,4,6-Trihalogenoanisoles	µg/L	5	No Water Quality Objective Value
Metals			
Aluminium as Al	µg/L	10	15
Mercury as Hg (MeHg)	µg/L	10	-
Asbestos (Total)	µg/L	100	No Water Quality Objective Value
Barium (Total)	µg/L	100	200
Boron (Total)	µg/L	10	10
Calcium (Total)	µg/L	100	100
Chromium (Total)	µg/L	10	10
Copper (Total)	µg/L	10	10
Fluoride (Total)	µg/L	10	10
Iron (Total)	µg/L	10	10
Manganese (Total)	µg/L	10	10
Nickel (Total)	µg/L	10	10
Phosphorus (Total)	µg/L	10	10
Potassium (Total)	µg/L	10	10
Selenium (Total)	µg/L	10	10
Silver (Total)	µg/L	10	10
Sulfate (Total)	µg/L	10	10
Zinc (Total)	µg/L	10	10
Organic Analyses			
2,4,6-Trihalogenoanisoles	µg/L	5	No Water Quality Objective Value
2,4,6-Trihalogenoanisoles	µg/L	5	No Water Quality Objective Value
Metals			
Aluminium (Total)	µg/L	1	No Water Quality Objective Value
Aluminium (Dissolved)	µg/L	1	No Water Quality Objective Value
Asbestos (Total)	µg/L	100	No Water Quality Objective Value
Asbestos (Dissolved)	µg/L	100	No Water Quality Objective Value
Barium (Total)	µg/L	100	200
Barium (Dissolved)	µg/L	100	200
Boron (Total)	µg/L	10	10
Boron (Dissolved)	µg/L	10	10
Calcium (Total)	µg/L	100	100
Calcium (Dissolved)	µg/L	100	100
Chromium (Total)	µg/L	10	10
Chromium (Dissolved)	µg/L	10	10
Copper (Total)	µg/L	10	10
Copper (Dissolved)	µg/L	10	10
Fluoride (Total)	µg/L	10	10
Fluoride (Dissolved)	µg/L	10	10
Iron (Total)	µg/L	10	10
Iron (Dissolved)	µg/L	10	10
Manganese (Total)	µg/L	10	10
Manganese (Dissolved)	µg/L	10	10
Nickel (Total)	µg/L	10	10
Nickel (Dissolved)	µg/L	10	10
Phosphorus (Total)	µg/L	10	10
Phosphorus (Dissolved)	µg/L	10	10
Selenium (Total)	µg/L	10	10
Selenium (Dissolved)	µg/L	10	10
Silver (Total)	µg/L	10	10
Silver (Dissolved)	µg/L	10	10
Sulfate (Total)	µg/L	10	10
Sulfate (Dissolved)	µg/L	10	10
Zinc (Total)	µg/L	10	10
Zinc (Dissolved)	µg/L	10	10

EPL1	EPL2	EPL4	EPL5	EPL6	EPL7	EPL8	EPL9	EPL10	EPL11	EPL12	EPL13	EPL14	EPL15	EPL16	EPL17	EPL18	EPL19	EPL20	EPL21	EPL22	EPL23	EPL24	EPL25	EPL26	EPL27	EPL28	EPL29	EPL30	EPL31	EPL32	EPL33	EPL34	EPL35	EPL36	EPL37	EPL38	EPL39	EPL40	EPL41	EPL42	EPL43	EPL44	EPL45	EPL46	EPL47	EPL48	EPL49	EPL50	EPL51	EPL52	EPL53	EPL54	EPL55	EPL56	EPL57	EPL58	EPL59	EPL60	EPL61	EPL62	EPL63	EPL64	EPL65	EPL66	EPL67	EPL68	EPL69	EPL70	EPL71	EPL72	EPL73	EPL74	EPL75	EPL76	EPL77	EPL78	EPL79	EPL80	EPL81	EPL82	EPL83	EPL84	EPL85	EPL86	EPL87	EPL88	EPL89	EPL90	EPL91	EPL92	EPL93	EPL94	EPL95	EPL96	EPL97	EPL98	EPL99	EPL100	EPL101	EPL102	EPL103	EPL104	EPL105	EPL106	EPL107	EPL108	EPL109	EPL110	EPL111	EPL112	EPL113	EPL114	EPL115	EPL116	EPL117	EPL118	EPL119	EPL120	EPL121	EPL122	EPL123	EPL124	EPL125	EPL126	EPL127	EPL128	EPL129	EPL130	EPL131	EPL132	EPL133	EPL134	EPL135	EPL136	EPL137	EPL138	EPL139	EPL140	EPL141	EPL142	EPL143	EPL144	EPL145	EPL146	EPL147	EPL148	EPL149	EPL150	EPL151	EPL152	EPL153	EPL154	EPL155	EPL156	EPL157	EPL158	EPL159	EPL160	EPL161	EPL162	EPL163	EPL164	EPL165	EPL166	EPL167	EPL168	EPL169	EPL170	EPL171	EPL172	EPL173	EPL174	EPL175	EPL176	EPL177	EPL178	EPL179	EPL180	EPL181	EPL182	EPL183	EPL184	EPL185	EPL186	EPL187	EPL188	EPL189	EPL190	EPL191	EPL192	EPL193	EPL194	EPL195	EPL196	EPL197	EPL198	EPL199	EPL200	EPL201	EPL202	EPL203	EPL204	EPL205	EPL206	EPL207	EPL208	EPL209	EPL210	EPL211	EPL212	EPL213	EPL214	EPL215	EPL216	EPL217	EPL218	EPL219	EPL220	EPL221	EPL222	EPL223	EPL224	EPL225	EPL226	EPL227	EPL228	EPL229	EPL230	EPL231	EPL232	EPL233	EPL234	EPL235	EPL236	EPL237	EPL238	EPL239	EPL240	EPL241	EPL242	EPL243	EPL244	EPL245	EPL246	EPL247	EPL248	EPL249	EPL250	EPL251	EPL252	EPL253	EPL254	EPL255	EPL256	EPL257	EPL258	EPL259	EPL260	EPL261	EPL262	EPL263	EPL264	EPL265	EPL266	EPL267	EPL268	EPL269	EPL270	EPL271	EPL272	EPL273	EPL274	EPL275	EPL276	EPL277	EPL278	EPL279	EPL280	EPL281	EPL282	EPL283	EPL284	EPL285	EPL286	EPL287	EPL288	EPL289	EPL290	EPL291	EPL292	EPL293	EPL294	EPL295	EPL296	EPL297	EPL298	EPL299	EPL300	EPL301	EPL302	EPL303	EPL304	EPL305	EPL306	EPL307	EPL308	EPL309	EPL310	EPL311	EPL312	EPL313	EPL314	EPL315	EPL316	EPL317	EPL318	EPL319	EPL320	EPL321	EPL322	EPL323	EPL324	EPL325	EPL326	EPL327	EPL328	EPL329	EPL330	EPL331	EPL332	EPL333	EPL334	EPL335	EPL336	EPL337	EPL338	EPL339	EPL340	EPL341	EPL342	EPL343	EPL344	EPL345	EPL346	EPL347	EPL348	EPL349	EPL350	EPL351	EPL352	EPL353	EPL354	EPL355	EPL356	EPL357	EPL358	EPL359	EPL360	EPL361	EPL362	EPL363	EPL364	EPL365	EPL366	EPL367	EPL368	EPL369	EPL370	EPL371	EPL372	EPL373	EPL374	EPL375	EPL376	EPL377	EPL378	EPL379	EPL380	EPL381	EPL382	EPL383	EPL384	EPL385	EPL386	EPL387	EPL388	EPL389	EPL390	EPL391	EPL392	EPL393	EPL394	EPL395	EPL396	EPL397	EPL398	EPL399	EPL400	EPL401	EPL402	EPL403	EPL404	EPL405	EPL406	EPL407	EPL408	EPL409	EPL410	EPL411	EPL412	EPL413	EPL414	EPL415	EPL416	EPL417	EPL418	EPL419	EPL420	EPL421	EPL422	EPL423	EPL424	EPL425	EPL426	EPL427	EPL428	EPL429	EPL430	EPL431	EPL432	EPL433	EPL434	EPL435	EPL436	EPL437	EPL438	EPL439	EPL440	EPL441	EPL442	EPL443	EPL444	EPL445	EPL446	EPL447	EPL448	EPL449	EPL450	EPL451	EPL452	EPL453	EPL454	EPL455	EPL456	EPL457	EPL458	EPL459	EPL460	EPL461	EPL462	EPL463	EPL464	EPL465	EPL466	EPL467	EPL468	EPL469	EPL470	EPL471	EPL472	EPL473	EPL474	EPL475	EPL476	EPL477	EPL478	EPL479	EPL480	EPL481	EPL482	EPL483	EPL484	EPL485	EPL486	EPL487	EPL488	EPL489	EPL490	EPL491	EPL492	EPL493	EPL494	EPL495	EPL496	EPL497	EPL498	EPL499	EPL500	EPL501	EPL502	EPL503	EPL504	EPL505	EPL506	EPL507	EPL508	EPL509	EPL510	EPL511	EPL512	EPL513	EPL514	EPL515	EPL516	EPL517	EPL518	EPL519	EPL520	EPL521	EPL522	EPL523	EPL524	EPL525	EPL526	EPL527	EPL528	EPL529	EPL530	EPL531	EPL532	EPL533	EPL534	EPL535	EPL536	EPL537	EPL538	EPL539	EPL540	EPL541	EPL542	EPL543	EPL544	EPL545	EPL546	EPL547	EPL548	EPL549	EPL550	EPL551	EPL552	EPL553	EPL554	EPL555	EPL556	EPL557	EPL558	EPL559	EPL560	EPL561	EPL562	EPL563	EPL564	EPL565	EPL566	EPL567	EPL568	EPL569	EPL570	EPL571	EPL572	EPL573	EPL574	EPL575	EPL576	EPL577	EPL578	EPL579	EPL580	EPL581	EPL582	EPL583	EPL584	EPL585	EPL586	EPL587	EPL588	EPL589	EPL590	EPL591	EPL592	EPL593	EPL594	EPL595	EPL596	EPL597	EPL598	EPL599	EPL600	EPL601	EPL602	EPL603	EPL604	EPL605	EPL606	EPL607	EPL608	EPL609	EPL610	EPL611	EPL612	EPL613	EPL614	EPL615	EPL616	EPL617	EPL618	EPL619	EPL620	EPL621	EPL622	EPL623	EPL624	EPL625	EPL626	EPL627	EPL628	EPL629	EPL630	EPL631	EPL632	EPL633	EPL634	EPL635	EPL636	EPL637	EPL638	EPL639	EPL640	EPL641	EPL642	EPL643	EPL644	EPL645	EPL646	EPL647	EPL648	EPL649	EPL650	EPL651	EPL652	EPL653	EPL654	EPL655	EPL656	EPL657	EPL658	EPL659	EPL660	EPL661	EPL662	EPL663	EPL664	EPL665	EPL666	EPL667	EPL668	EPL669	EPL670	EPL671	EPL672	EPL673	EPL674	EPL675	EPL676	EPL677	EPL678	EPL679	EPL680	EPL681	EPL682	EPL683	EPL684	EPL685	EPL686	EPL687	EPL688	EPL689	EPL690	EPL691	EPL692	EPL693	EPL694	EPL695	EPL696	EPL697	EPL698	EPL699	EPL700	EPL701	EPL702	EPL703	EPL704	EPL705	EPL706	EPL707	EPL708	EPL709	EPL710	EPL711	EPL712	EPL713	EPL714	EPL715	EPL716	EPL717	EPL718	EPL719	EPL720	EPL721	EPL722	EPL723	EPL724	EPL725	EPL726	EPL727	EPL728	EPL729	EPL730	EPL731	EPL732	EPL733	EPL734	EPL735	EPL736	EPL737	EPL738	EPL739	EPL740	EPL741	EPL742	EPL743	EPL744	EPL745	EPL746	EPL747	EPL748	EPL749	EPL750	EPL751	EPL752	EPL753	EPL754	EPL755	EPL756	EPL757	EPL758	EPL759	EPL760	EPL761	EPL762	EPL763	EPL764	EPL765	EPL766	EPL767	EPL768	EPL769	EPL770	EPL771	EPL772	EPL773	EPL774	EPL775	EPL776	EPL777	EPL778	EPL779	EPL780	EPL781	EPL782	EPL783	EPL784	EPL785	EPL786	EPL787	EPL788	EPL789	EPL790	EPL791	EPL792	EPL793	EPL794	EPL795	EPL796	EPL797	EPL798	EPL799	EPL800	EPL801	EPL802	EPL803	EPL804	EPL805	EPL806	EPL807	EPL808	EPL809	EPL810	EPL811	EPL812	EPL813	EPL814	EPL815	EPL816	EPL817	EPL818	EPL819	EPL820	EPL821	EPL822	EPL823	EPL824	EPL825	EPL826	EPL827	EPL828	EPL829	EPL830	EPL831	EPL832	EPL833	EPL834	EPL835	EPL836	EPL837	EPL838	EPL839	EPL840	EPL841	EPL842	EPL843	EPL844	EPL845	EPL846	EPL847	EPL848	EPL849	EPL850	EPL851	EPL852	EPL853	EPL854	EPL855	EPL856	EPL857	EPL858	EPL859	EPL860	EPL861	EPL862	EPL863	EPL864	EPL865	EPL866	EPL867	EPL868	EPL869	EPL870	EPL871	EPL872	EPL873	EPL874	EPL875	EPL876	EPL877	EPL878	EPL879	EPL880	EPL881	EPL882	EPL883	EPL884	EPL885	EPL886	EPL887	EPL888	EPL889	EPL890	EPL891	EPL892	EPL893	EPL894	EPL895	EPL896	EPL897	EPL898	EPL899	EPL900	EPL901	EPL902	EPL903	EPL904	EPL905	EPL906	EPL907	EPL908	EPL909	EPL910	EPL911	EPL912	EPL913	EPL914	EPL915	EPL916	EPL917	EPL918	EPL919	EPL920	EPL921	EPL922	EPL923	EPL924	EPL925	EPL926	EPL927	EPL928	EPL929	EPL930	EPL931	EPL932	EPL933	EPL934	EPL935	EPL936	EPL937	EPL938	EPL939	EPL940	EPL941	EPL942	EPL943	EPL944	EPL945	EPL946	EPL947	EPL948	EPL949	EPL950	EPL951	EPL952	EPL953	EPL954	EPL955	EPL956	EPL957	EPL958	EPL959	EPL960	EPL961	EPL962	EPL963	EPL964	EPL965	EPL966	EPL967	EPL968	EPL969	EPL970	EPL971	EPL972	EPL973	EPL974	EPL975	EPL976	EPL977	EPL978	EPL979	EPL980	EPL981	EPL982	EPL983	EPL984	EPL985	EPL986	EPL987	EPL988	EPL989	EPL990	EPL991	EPL992	EPL993	EPL994	EPL995	EPL996	EPL997	EPL998	EPL999	EPL1000	EPL1001	EPL1002	EPL1003	EPL1004	EPL1005	EPL1006	EPL1007	EPL1008	EPL1009	EPL1010	EPL1011	EPL1012	EPL1013	EPL1014	EPL1015	EPL1016	EPL1017	EPL1018	EPL1019	EPL1020	EPL1021	EPL1022	EPL1023	EPL1024	EPL1025	EPL1026	EPL1027	EPL1028	EPL1029	EPL1030	EPL1031	EPL1032	EPL1033	EPL1034	EPL1035	EPL1036	EPL1037	EPL1038	EPL1039	EPL1040	EPL1041	EPL1042	EPL1043	EPL1044	EPL1045	EPL1046	EPL1047	EPL1048	EPL1049	EPL1050	EPL1051	EPL1052	EPL1053	EPL1054	EPL1055	EPL1056	EPL1057	EPL1058	EPL1059	EPL1060	EPL1061	EPL1062	EPL1063	EPL1064	EPL1065	EPL1066	EPL1067	EPL1068	EPL1069	EPL1070	EPL1071	EPL1072	EPL1073	EPL1074	EPL1075	EPL1076	EPL1077	EPL1078	EPL1079	EPL1080	EPL1081	EPL1082	EPL1083	EPL1084	EPL1085	EPL1086	EPL1087	EPL1088	EPL1089	EPL1090	EPL1091	EPL1092	EPL1093	EPL1094	EPL1095	EPL1096	EPL1097	EPL1098	EPL1099	EPL1100	EPL1101	EPL1102	EPL1103	EPL1104	EPL1105	EPL1106	EPL1107	EPL1108	EPL1109	EPL1110	EPL1111	EPL1112	EPL1113	EPL1114	EPL1115	EPL1116	EPL1117	EPL1118	EPL1119	EPL1120	EPL1121	EPL1122	EPL1123	EPL1124	EPL1125	EPL1126	EPL1127	EPL1128	EPL1129	EPL1130	EPL1131	EPL1132	EPL1133	EPL1134	EPL1135	EPL1136	EPL1137	EPL1138	EPL1139	EPL1140	EPL1141	EPL1142	EPL1143	EPL1144	EPL1145	EPL1146	EPL1147	EPL1148	EPL1149	EPL1150	EPL1151	EPL1152	EPL1153	EPL1154	EPL1155	EPL1156	EPL1157	EPL1158	EPL1159	EPL1160	EPL1161	EPL1162	EPL1163	EPL1164	EPL1165	EPL1166	EPL1167	EPL1168	EPL1169	EPL1170	EPL1171	EPL1172	EPL1173	EPL1174	EPL1175	EPL1176	EPL1177	EPL1178	EPL1179	EPL1180	EPL1181	EPL1182	EPL1183	EPL1184	EPL1185	EPL1186	EPL1187	EPL1188	EPL1189	EPL1190	EPL1191	EPL1192	EPL1193	EPL1194	EPL1195	EPL1196	EPL1197	EPL1198	EPL1199	EPL1200	EPL1201	EPL1202	EPL1203	EPL1204	EPL1205	EPL1206	EPL1207	EPL1208	EPL1209	EPL1210	EPL1211	EPL1212	EPL1213	EPL1214	EPL1215	EPL1216	EPL1217	EPL1218	EPL1219	EPL1220	EPL1221	EPL1222	EPL1223	EPL1224	EPL1225	EPL1226	EPL1227	EPL1228	EPL1229	EPL1230	EPL1231	EPL1232	EPL1233	EPL1234	EPL1235	EPL1236	EPL1237	EPL1238	EPL1239	EPL1240	EPL1241	EPL1242	EPL1243	EPL1244	EPL1245	EPL1246	EPL1247	EPL1248	EPL1249	EPL1250	EPL1251	EPL1252	EPL1253	EPL1254	EPL1255	EPL1256	EPL1257	EPL1258	EPL1259	EPL1260	EPL1261	EPL1262	EPL1263	EPL1264	EPL1265	EPL1266	EPL1267	EPL1268	EPL1269	EPL1270	EPL1271	EPL1272	EPL1273	EPL1274	EPL1275	EPL1276	EPL1277	EPL1278	EPL1279	EPL1280	EPL1281	EPL1282	EPL1283	EPL1284	EPL1285	EPL1286	EPL1287	EPL1288	EPL1289	EPL1290	EPL1291	EPL1292	EPL1293	EPL1294	EPL1295	EPL1296	EPL1297	EPL1298	EPL1299	EPL1300	EPL1301	EPL1302	EPL1303	EPL1304	EPL1305	EPL1306	EPL1307	EPL1308	EPL1309	EPL1310	EPL1311	EPL1312	EPL1313	EPL1314	EPL1315	EPL1316	EPL1317	EPL1318	EPL1319	EPL1320	EPL1321	EPL1322	EPL1323	EPL1324	EPL1325	EPL1326	EPL1327	EPL1328	EPL1329	EPL1330	EPL1331	EPL1332	EPL1333	EPL1334	EPL1335	EPL1336	EPL1337	EPL1338	EPL1339	EPL1340	EPL1341	EPL1342	EPL1343	EPL1344	EPL1345	EPL1346	EPL1347	EPL1348	EPL1349	EPL1
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Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01-28 February 2026 - Talbingo and Tantangara
Reservoir

Analyte	Unit	Limit of Reporting	Water Quality Objectives
Field			
pH	pH Unit	-	6.5-8
Electrical Conductivity	µS/cm	-	20-30
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value
Temperature	°C	-	No Water Quality Objective Value
Dissolved Oxygen	% saturation	-	90-110
Turbidity	NTU	-	1-20
Laboratory analytes			
Total suspended solids	mg/L	5	No Water Quality Objective Value
Hardness as CaCO ₃ (filtered)	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	µg/L	10	10
Nitrite + Nitrate as N (NO _x)	µg/L	10	10
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value
Nitrogen (Total)	µg/L	100	350
Reactive Phosphorus (filtered)	µg/L	10	5
Phosphorus (Total)	µg/L	10	10
Inorganics			
Cyanide Total	mg/L	0.004	0.007
Hydrocarbons			
Oil and Grease	mg/L	1	No Water Quality Objective Value
Metals			
Aluminium (filtered)	µg/L	5	55
Arsenic (filtered)	µg/L	0.2	13
Chromium (III+VI) (filtered)	µg/L	0.2	0.01
Copper (filtered)	µg/L	0.5	1.4
Iron (filtered)	µg/L	2	300
Lead (filtered)	µg/L	0.1	3.4
Manganese (filtered)	µg/L	0.5	1,900
Nickel (filtered)	µg/L	0.5	11
Silver (filtered)	µg/L	0.01	0.05
Zinc (filtered)	µg/L	1	8
Biological			
Biochemical Oxygen Demand	mg/L	2	No Water Quality Objective Value
Thermotolerant Coliforms	CFU/100mL	1	No Water Quality Objective Value

EPL10	EPL11	EPL28	EPL29	EPL32	EPL38	EPL39	EPL40	EPL51	EPL107	EPL108	EPL109
1/02/2026	1/02/2026	8/02/2026	8/02/2026	8/02/2026	8/02/2026	7/02/2026	8/02/2026	8/02/2026	1/02/2026	1/02/2026	1/02/2026
7.93	8.12	7.07	7.91	7.6	7.18	7.18	7.37	7.88	8.29	8.34	8.48
97	76	31	26	26	27	27	30	26	48	42	45
174	150	238	211	221	234	200	229	215	129	116	90
26.43	25.98	18.07	19.51	19.08	18.67	17.95	18.27	19.24	25.12	24.8	24.27
63.9	63	73.6	63.2	67	65.4	56.6	55.3	66	83.4	62.4	73.2
1.35	1.5	7.1	6.3	5.2	3.1	6.8	4.3	6.1	0.96	10.1	28.8
<5	<5	5	<5	5	<5	<5	<5	<5	<5	<5	<5
41	29	9	9	9	9	7	9	9	14	14	17
10	10	10	<10	20	<10	20	<10	<10	<10	<10	<10
20	20	<10	<10	<10	<10	40	<10	<10	<10	<10	<10
300	300	300	300	300	300	300	300	300	300	200	200
300	300	300	300	300	300	300	300	300	300	200	200
<10	<10	10	<10	<10	10	<10	10	<10	<10	<10	<10
<10	<10	60	50	50	80	20	50	60	<10	<10	<10
<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
<5	<5	23	34	35	35	38	22	32	<5	<5	<5
0.6	0.5	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3
<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
26	14	243	180	182	203	95	243	170	4	4	5
<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
<0.5	<0.5	1	1.2	1.2	1.3	2.7	1	1.2	<0.5	<0.5	<0.5
<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
10,000	7,800	15,000	-	-	-	-	-	86	-	-	-
2	4	4	-	-	-	-	-	3	-	-	-



Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01-28 February 2026 - Surface Water

Analyte	Unit	Limit of Reporting	Water Quality Objectives
pH	unit	-	6.5-8
Electrical Conductivity	µS/cm	-	35-350
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value
Temperature	°C	-	No Water Quality Objective Value
Dissolved Oxygen	% saturation	-	10-110
Turbidity	NTU	-	0-2.5
Laboratory analyses			
TSS	mg/L	5	No Water Quality Objective Value
Hardness as CaCO3	mg/L	5	No Water Quality Objective Value
Metals			
Arsenic as As	µg/L	10	15
Barium + Strontium as Ba (BaSO4)	µg/L	100	No Water Quality Objective Value
Boron (Total)	µg/L	100	250
Reactive Phosphorus	µg/L	10	15
Phosphorus (Total)	µg/L	10	20
Inorganics			
Chloride Total	µg/L	4	4
Hydrocarbons			
Oil and Grease	mg/L	5	No Water Quality Objective Value
Metals			
Aluminium (dissolved)	µg/L	5	No Water Quality Objective Value
Aluminium (total)	µg/L	5	27
Arsenic (total)	µg/L	0.2	No Water Quality Objective Value
Arsenic (dissolved)	µg/L	0.2	5
Chromium (trivalent) (total)	µg/L	0.2	No Water Quality Objective Value
Chromium (trivalent) (dissolved)	µg/L	0.2	0.02
Copper (total)	µg/L	0.5	No Water Quality Objective Value
Copper (dissolved)	µg/L	0.5	5
Iron (total)	µg/L	2	300
Lead (total)	µg/L	0.1	No Water Quality Objective Value
Lead (dissolved)	µg/L	0.1	<0.1
Manganese (total)	µg/L	0.5	No Water Quality Objective Value
Manganese (dissolved)	µg/L	0.5	1,200
Nickel (total)	µg/L	0.5	-
Nickel (dissolved)	µg/L	0.5	8
Silver (total)	µg/L	0.05	No Water Quality Objective Value
Silver (dissolved)	µg/L	0.05	0.02
Zinc (total)	µg/L	1	No Water Quality Objective Value
Zinc (dissolved)	µg/L	1	2.4

EPL5	EPL6	EPL8	EPL9	EPL12	EPL14	EPL15	EPL16	EPL24	EPL26	EPL27	EPL30	EPL31	EPL33	EPL34	EPL35	EPL36	EPL37	EPL32	EPL33	EPL34	EPL35	EPL36	EPL37	EPL38	EPL39	EPL100	EPL101	EPL106	EPL110	EPL118	EPL119	EPL120	EPL122						
17/02/2026	17/02/2026	17/02/2026	17/02/2026	17/02/2026	17/02/2026	17/02/2026	18/02/2026	-	6/02/2026	6/02/2026	7/02/2026	7/02/2026	7/02/2026	7/02/2026	7/02/2026	21/02/2026	21/02/2026	21/02/2026	-	-	-	-	-	-	-	-	21/02/2026	21/02/2026	18/02/2026	-	2/08/2026	2/08/2026	2/08/2026	7/02/2026	-	7/02/2026	7/02/2026	-	-
8.89	8.92	8.92	8.88	8.88	8.91	8.91	8.13	-	8.24	7.75	8.05	7.84	7.03	8.27	7.93	6.98	7.13	9.26	-	-	-	-	-	-	-	-	8.82	9.18	8.41	-	8.77	8.74	9.16	8.73	-	8.55	8.23	-	-
172	187	189	204	171	174	173	174	-	40	35	35	28	26	41	36	45	48	1,660.00	-	-	-	-	-	-	-	-	1,660.00	1,160.00	1,040.00	-	281	826	839	2,270.00	-	1,340.00	2,180.00	-	-
168	19	195	175	190	179	171	181	-	159	182	184	187	239	158	176	190	170	70	-	-	-	-	-	-	-	-	138	1,160.00	27.00	-	113	129	107	29	-	386	94	-	-
21.96	21.19	20.23	18.79	21.84	21.79	21.58	20.09	-	17.65	16.8	11.18	11.01	17.39	10.46	10.39	16.02	19.88	21.43	-	-	-	-	-	-	-	-	25.57	17.23	21.48	-	19.17	24.74	22.84	20.84	-	23.93	21.89	-	-
83.4	84.8	85.5	85.7	80.2	83.6	84.3	114.4	-	71.5	50.8	60.3	55.7	68.7	60	48.6	53.2	62.3	69.8	-	-	-	-	-	-	-	-	91.3	78.5	40.5	-	83.7	66.2	96.1	102.7	-	68.7	52.1	-	-
0	0	6	17.8	0	0.5	0.1	0	-	0.2	0.6	5.7	2.56	25.8	3.8	3.7	11.1	14.7	24.3	-	-	-	-	-	-	-	-	831	1,000.00	946.09	-	314	27.1	40.6	45.4	-	2.3	80.1	-	-
<5	<5	<5	<5	<5	<5	<5	<5	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	8	15	-	-	-	-	-	-	-	748	1,170	142	-	34	8	16	<5	-	39	8	-	-
73	87	87	87	73	81	73	83	-	18	16	13	13	9	18	18	17	17	281	-	-	-	-	-	-	-	-	49	11	206	-	89	246	220	601	-	1,220	187	-	-
30	20	20	20	10	40	10	<10	-	30	10	10	<10	10	10	10	20	10	60	-	-	-	-	-	-	-	-	80	70	20	-	880	90	30	50	-	60	50	-	-
<10	<10	30	<10	<10	<10	<10	30	-	<10	10	<10	<10	<10	<10	<10	<10	<10	12,000	-	-	-	-	-	-	-	-	4,880	4,950	<10	-	1,460	15,700	12,200	84,800	-	2,450	80	-	-
100	100	100	100	<100	100	<100	100	-	200	100	<100	<100	100	100	100	100	100	2,100	-	-	-	-	-	-	-	-	1,800	1,800	700	-	1,400	1,600	1,200	1,600	-	700	100	-	-
100	100	100	100	<100	100	<100	100	-	200	100	<100	<100	100	100	100	100	100	34,200	-	-	-	-	-	-	-	-	8,500	9,000	700	-	4,900	10,300	13,300	61,400	-	3,200	100	-	-
<10	<10	10	10	<10	<10	<10	<10	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	-	-	-	-	-	-	-	20	<10	<10	-	<10	<10	<10	<10	-	<10	<10	-	-
<10	20	10	<10	30	<10	<10	<10	-	20	20	20	20	20	20	20	40	20	20	-	-	-	-	-	-	-	-	40	50	80	20	-	40	60	40	-	40	40	-	-
<4	<4	<4	<4	<4	<4	<4	<4	-	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	-	-	-	-	-	-	-	-	<4	<4	<4	-	<4	<4	<4	<4	-	<4	<4	-	-
<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-	-	-	-	-	-	-	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<5	<5	<5	<5	<5	<5	<5	<5	-	10	<5	11	11	16	14	16	17	25	7	-	-	-	-	-	-	-	-	24	25	18	-	12	18	24	9	-	5	<5	-	-
0.7	0.4	0.7	0.7	0.7	0.7	0.7	0.7	-	<0.2	<0.2	<0.2	<0.2	0.3	0.2	0.2	0.3	0.4	3.2	-	-	-	-	-	-	-	-	14.2	17.5	9.7	-	6.5	3.3	2.5	2.5	-	3.9	2.0	-	-
8.9	<0.2	0.3	<0.2	0.2	0.2	0.2	<0.2	-	0.3	0.3	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	3.7	18.8	<0.2	-	6.8	3.8	5.1	1.0	-	1.4	0.4	-	-
<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	5	3.7	1.4	-	<0.5	1.0	1.2	1.0	-	3.2	0.8	-	-
6	32	18	11	6	6	8	6	-	64	18	37	38	800	87	92	358	288	<2	-	-	-	-	-	-	-	-	3	3	<2	-	<2	3	<2	3	-	<2	<2	-	-
<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	0.1	0.3	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	-	-
3.6	4.9	2.8	3.9	1.5	1.5	2.6	2.6	-	1.3	1.9	3.1	1.5	1.4	4.9	4	11.1	1	<0.5	-	-	-	-	-	-	-	-	<0.5	<0.5	68.2	-	<0.5	0.9	<0.5	0.5	-	<0.5	0.8	-	-
<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	3	2.7	1.9	-	<0.5	1.1	1.8	2.4	-	7.2	5.3	-	-
<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-	-	-	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	-	-
<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	<1	<1	<1	-	<1	<1	<1	<1	-	<1	<1	-	-



Snowy Hydro 2.0 Main Works

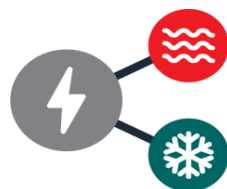
Monthly EPL Sampling: 01-28 February 2026 - Discharge Water



Analyte	Unit	Limit of Reporting	Water Quality Objectives / EPL Discharge Limits*	EPL 41	EPL 50
				4/02/2026	8/02/2026
Field					
pH	pH Unit	-	6.5-8.5	7.55	6.82
Electrical Conductivity	µS/cm	-	700 (EPL 41) / 200 (EPL 50)	3	93
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	207	239
Temperature	°C	-	No Water Quality Objective Value	22.41	19.31
Dissolved Oxygen	% saturation	-	No Water Quality Objective Value	81.7	69.4
Turbidity	NTU	-	No Water Quality Objective Value	16.1	0.9
Laboratory analytes					
Total suspended solids	mg/L	5	5*/10**	<5	<5
Hardness as CaCO ₃ (filtered)	mg/L	1	No Water Quality Objective Value	<1	<1
Nutrients					
Ammonia as N	mg/L	0.01	1*/2**	<0.01	0.04
Nitrogen (Total)	mg/L	0.10	1.5*/3**	<0.10	1.2
Phosphorus (Total)	mg/L	0.01	0.3*/0.5**	<0.01	0.04
Inorganics					
Cyanide Total	µg/L	4	No Water Quality Objective Value	<4	<4
Hydrocarbons					
Oil and Grease	mg/L	1	2*/5**	<1.0	<1.0
Metals					
Aluminium (dissolved)	µg/L	5	No Water Quality Objective Value	<5	<5
Arsenic (dissolved)	µg/L	0.2	No Water Quality Objective Value	<0.2	<0.2
Chromium (III+VI) (dissolved)	µg/L	0.2	No Water Quality Objective Value	<0.2	2.6
Copper (dissolved)	µg/L	0.5	No Water Quality Objective Value	<0.5	0.7
Iron (dissolved)	µg/L	2	No Water Quality Objective Value	<2	<2
Lead (dissolved)	µg/L	0.1	No Water Quality Objective Value	<0.1	<0.1
Manganese (dissolved)	µg/L	0.5	No Water Quality Objective Value	<0.5	<0.5
Nickel (dissolved)	µg/L	0.5	No Water Quality Objective Value	<0.5	<0.5
Silver (dissolved)	µg/L	0.01	No Water Quality Objective Value	<0.01	<0.01
Zinc (dissolved)	µg/L	1	No Water Quality Objective Value	<1	5
Biological					
Faecal Coliforms	CFU/100mL	1	10*/100**	1	<1
Biological Oxygen Demand	mg/L	2	3.5*/5**	<2	2

* EPL Discharge Limits, 90 Percentile Concentration Limit as per EPL 21266

** EPL Discharge Limits, 100 Percentile Concentration Limits as per EPL 21266



Future Generation
Webuild • Clough • Lane

Snowy Hydro 2.0 Main Works		EPL 43	EPL 50
Monthly EPL Sampling: 01-28 February 2026 - Discharge Volumes			
Date		Discharge volume (Megalitres)	
1/02/2026		-	0.43
2/02/2026		-	0.51
3/02/2026		-	0.52
4/02/2026		-	0.56
5/02/2026		-	-
6/02/2026		-	0.47
7/02/2026		-	0.13
8/02/2026		0.76	0.38
9/02/2026		-	0.57
10/02/2026		0.34	0.62
11/02/2026		-	0.64
12/02/2026		-	0.43
13/02/2026		0.33	0.32
14/02/2026		-	0.33
15/02/2026		-	0.64
16/02/2026		-	0.71
17/02/2026		-	0.56
18/02/2026		-	-
19/02/2026		-	-
20/02/2026		-	-
21/02/2026		-	0.49
22/02/2026		-	0.23
23/02/2026		0.54	0.33
24/02/2026		-	0.46
25/02/2026		-	0.91
26/02/2026		-	0.60
27/02/2026		-	0.29
28/02/2026		0.56	0.63



EPL 21266 In Situ Water Quality Measurements

EPL Monthly In-Situ Monitoring February 2026

Table 1 - Surface Water Quality Data
River and Minor Watercourses

Water Quality Objectives							
Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)
-	90 - 110	-	30 - 350	-	6.5 - 8.0	-	2 - 25

Date and Time	EPL Site ID	Location Description	Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)	Field Comments	Context
17/02/2026 12:44	EPL5	Yarrangobilly River, upstream of the exploratory tunnel and construction pad	23.36	83.4	7.1	172	112	8.89	168	0	Clear water, representative of 0 turbidity	Low DO% and high pH is within the baseline water quality results summary in the surface water management plan, refering to frequent exceedances during the warmer months. This is an upgradient location and is not considered to be affected by the project. Turbidity has been mentioned in the field notes.
17/02/2026 12:12	EPL6	Wallaces Creek, upstream of Yarrangobilly River and Wallaces Creek confluence	21.59	84.8	7.47	187	121	8.92	19	0	Turbidity is representative of water conditions. No odor. Hot dry.	Elevated pH and low DO% is within the range of upstream locations. Turbidity is mentioned in the field notes.
17/02/2026 11:12	EPL8	Yarrangobilly River, downstream of Lick Hole Gully	20.15	81.5	7.39	199	129	8.92	195	6	clean water, sulphuric acid smell when stepping on mud. Hot sunny day, low flow.	DO% and pH are considered to be representative of the upgradient locations.
17/02/2026 10:56	EPL9	Yarrangobilly River, downstream of the accommodation camp and upstream of Talbingo Reservoir	19.73	85.7	7.83	204	132	8.88	175	17.9	Very clear water, low flow, hot day, no rain.	Concentrations outside of WQO's are closely inline with upstream locations and not representative of construction influence.
17/02/2026 12:27	EPL12	Yarrangobilly River, immediately downstream of portal pad	22.58	84.3	7.29	173	112	8.88	171	0.1	Turbidity is representative of conditions of stream. No odor. Low flow. Sunny dry weather.	Low DO (%) and elevated pH is representative of upstream locations and seasonal temperature increases, this aligns with the baseline water quality results summary in the surface water management plan.
17/02/2026 11:54	EPL14	Yarrangobilly River, downstream of road construction areas	21.79	83.6	7.34	174	113	8.91	179	0.5	Very very low flow. Taken from the stream not the rock bank - water trickling near bank. Hot sunny day. No odor.	Low DO (%) and elevated pH is representative of seasonal temperature increases and is within the baseline water quality results summary in the surface water management plan.
17/02/2026 11:33	EPL15	Yarrangobilly River, downstream of road construction areas	21.64	80.2	7.06	171	111	8.91	190	0	Turbidity reading is representative of the water quality. No odor, hot sunny day.	Low DO (%) and elevated pH is representative of seasonal temperature increases and is within the baseline water quality results summary in the surface water management plan. Turbidity is mentioned in the field notes.
18/02/2026 10:42	EPL16	Yarrangobilly River, downstream of road construction areas	20.95	114.4	10.2	174	113	8.13	181	0	Clear water, low level, overcasts.	Elevated pH is representative of seasonal temperature increases and is within the baseline water quality results summary in the surface water management.
9/02/2026 9:57	EPL24	Yarrangobilly River tributary (Watercourse 2), directly downstream of road	-	-	-	-	-	-	-	-	Sample not taken due to low water levels.	No sample taken due to dry conditions
6/02/2026 10:46	EPL26	Eucumbene River downstream of Marica Road	17.65	71.5	6.82	40	26	8.24	159	0.2	Clear day. No recent rain. Water level low. Slow flow. Signs of hard hooved animals at sample point. No odour. No sheen visible.	The recorded concentrations are representative of the upgradient environmental conditions consistently observed within previous monitoring rounds at this location due to the lack of construction activities in this area. This location has been observed to have frequent activity by hard hooved animals.
6/02/2026 10:55	EPL27	Eucumbene River upstream of Marica Road	16.8	50.8	4.93	35	23	7.75	182	0.6	Clear day. No recent rain. QA's taken here. Signs of hardhooved animals near sample point.	High altitude and temperatures could contribute to DO% being low in this upstream location unaffected by project activities.
7/02/2026 9:00	EPL30	Kellys Plain Creek, downstream of accommodation camp and laydown areas	11.18	60.3	6.62	35	23	8.05	184	3.7	Clear day. No recent rain. Water clear. Low flow and level. No odour or sheen.	Low DO (%) and slightly raised pH is representative of seasonal increase temperature and is within the baseline water quality results summary in the surface water management plan.
7/02/2026 9:12	EPL31	Kellys Plain Creek, upstream of accommodation camp and laydown areas	11.01	55.7	6.14	28	18	7.94	187	2.6	Clear day. No recent rain. Signs of hard hooved animal activity at sample point. Water clear. Low flow and level.	Low EC and DO (%) is representative of the environmental conditions for this location being upstream of construction activities.
7/02/2026 8:35	EPL33	Murrumbidgee River, downstream of Tantangara reservoir outlet	17.39	68.7	6.58	26	17	7.03	239	25.8	Clear day. No recent rain. Water clear. Water flowing. Discharging at time of sampling.	Low EC and DO (%) is representative of the environmental conditions for this location, it is slightly greater than the naturally occurring streams in the surrounding area, though that could be attributed to the outlet discharging at time of sampling, this could also contribute to the marginally high turbity.
7/02/2026 7:11	EPL34	Nungar Creek, upstream of Tantangara Road	10.46	60	6.7	41	27	8.27	158	3.8	Clear day. No recent rain. Water clear. Low flow and level.	Low DO (%) and elevated pH is representative of seasonal temperature increases and is within the baseline water quality results summary in the surface water management plan.



EPL 21266 In Situ Water Quality Measurements

EPL Monthly In-Situ Monitoring February 2026												
7/02/2026 7:19	EPL35	Nungar Creek, downstream of Tantangara Road	10.39	48.6	5.43	36.0	23	7.93	176	3.7	Clear day. No recent rain. No odour or sheen. Water clear. Low flow and level.	Low DO (%) is representative of seasonal temperature increases and is within the baseline water quality results summary in the surface water management plan.
21/02/2026 10:09	EPL 36	Cameron's Creek, upstream of works in Rock Forest	16.02	53.2	5.25	45	29	6.98	190	11.1	Clear day. No recent rain. Low water level. No flow.	Low DO% is representative of the environmental conditions at this upstream location. All other parameters are within WQO limits.
21/02/2026 11:51	EPL 37	Cameron's Creek, downstream of works in Rock Forest	23.88	62.3	5.26	48	31	7.13	170	53.7	Clear day. No recent rain. Water level low. No flow. QA's taken here.	Low DO% is considered representative of the environmental conditions for this location.
21/02/2026 15:14	EPL52	GF01 leachate basin	29.43	69.8	5.3	1,460.00	932	9.26	70	24.3	Green colour, no sheen or odour, no recent rainfall, slightly turbid	Leachate storage basin.
-	EPL53	GF01 surface water upstream east	-	-	-	-	-	-	-	-	-	No sample taken due to dry conditions
-	EPL54	GF01 surface water upstream west	-	-	-	-	-	-	-	-	-	No sample taken due to dry conditions
-	EPL55	GF01 surface water downstream	-	-	-	-	-	-	-	-	-	No sample taken due to dry conditions
-	EPL67	Nungar Creek surface water downstream west from Tantangara emplacement area	-	-	-	-	-	-	-	-	-	No sample taken due to dry conditions
-	EPL71	Surface water downstream of Marica emplacement	-	-	-	-	-	-	-	-	-	No sample taken due to dry conditions
21/02/2026 15:18	EPL84	F8 Basin	25.57	91.3	7.44	1,090.00	696	8.82	116	831	Very turbid water, no recent rain no foam sheen or odour. Medium capacity.	Leachate storage basin.
21/02/2026 15:31	EPL85	MY07 Basin	27.23	78.5	6.21	1,160.00	742	9.18	1,160.00	1,000.00	No recent rain very turbid water (>1000 Ntu), no foam sheen or odour. Low capacity	Leachate storage basin.
18/02/2026 10:09	EPL86	LHG01 Basin	21.65	40.5	3.55	1,040.00	665	8.41	27	346	Turbid water Basin 10% full No odour No rainfall in last 24 hrs	Leachate storage basin.
-	EPL98	Rock blanket diversion monitoring under GF01 liner	-	-	-	-	-	-	-	-	-	No sample taken due to dry conditions
6/02/2026 13:17	EPL99	Marica Leachete Basin- Turkey's Nest	21.88	63.7	5.57	261	170	8.77	113	214	Clear day. No recent rain.	No sample taken due to dry conditions
6/02/2026 13:39	EPL100	Marica Lower Leachate Basin USS Shaft	24.76	66.2	5.48	826	529	8.74	129	27.1	Clear day. No recent rain. Water green colour.	No sample taken due to dry conditions
6/02/2026 13:29	EPL101	Marica Leachate Basin Spoil Pad	22.96	66.1	5.66	812	520	9.16	107	40.5	Clear day. No recent rain. Water green colour. Hydroseed on edge of basin liner. Organic matter floating on surface.	No sample taken due to dry conditions
7/02/2026 8:22	EPL106	Ravine Bay Leachate basin 1	20.84	59.7	5.3	2,270.00	1,450.00	8.73	29	45.4	QA_LOB_1 collected, clear, greenish colour, algae odour present, some bubbles and debris, 60% full, sunny day, no recent rainfall.	Leachate storage basin.
-	EPL110	Upstream monitoring of Ravine Bay emplacement area	-	-	-	-	-	-	-	-	-	No sample taken due to dry conditions
7/02/2026 10:23	EPL118	Ravine Bay Leachate basin 2	22.55	63.7	5.45	3,540.00	2,260.00	8.55	106	2.3	Green, clear, slight algae odour, sunny, no recent rainfall	Leachate storage basin.
7/02/2026 10:09	EPL119	Ravine Bay Leachate basin 3	21.85	52.1	4.54	2,180.00	1,400.00	8.23	94	30.1	Green colour, no odour or sheen, sunny, clear	Leachate storage basin.
-	EPL120	Ravine Bay Leachate basin 4	-	-	-	-	-	-	-	-	-	No sample taken due to dry conditions
-	EPL122	GF01 Drainage Line (Formerly EPL 55b)	-	-	-	-	-	-	-	-	-	No sample taken due to dry conditions



EPL 21266 In Situ Water Quality Measurements

Table 2 - Reservoir Water Quality Data

Talbingo and Tantangara Reservoirs

EPL Monthly In-Situ Monitoring February 2026

Table 2 - Reservoir Water Quality Data <i>Talbingo and Tantangara Reservoirs</i>			Water Quality Objectives									
			Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)		
			-	90 - 110	-	20 - 30	-	6.5 - 8.0	-	1 - 20		
Date and Time	EPL Site ID	Location Description	Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)	Field Comments	Context
1/02/2026 11:16	EPL10	Talbingo Reservoir, downstream of road works and upstream of water intake point	26.43	63.9	5.14	97	63	7.93	174	1.35	Overcast day. Recent rain event >20mm. Turb measured with Hach meter.	Low DO % and elevated EC is representative of the environmental conditions at this upstream of discharge point location. Low Turbidity is also representative of stream and reservoir conditions historically
1/02/2026 9:24	EPL11	Talbingo Reservoir, downstream of outlet	25.98	63	5.11	76	50	8.12	150	1.5	Overcast day. Recent rain event >20mm.	Slightly elevated EC, pH and low DO (%) could be attributed to seasonal conditions as the reservoir temperature increases as observed by previous monioring rounds.
8/02/2026 8:48	EPL28	Tantangara Reservoir, upstream of works in the mouth of the Murrumbidgee River	18.07	73.6	6.96	31	20	7.07	238	7.1	Cloudy day, clear water, no odour, the water level in the reservoir has been found very low	Low DO (%) could be attributed to the temperature increase at the time of the sampling as seen in previous monitoring rounds. This upstream location is not affected by construction works.
8/02/2026 9:41	EPL29	Tantangara Reservoir, downstream of works area and upstream of lower Murrumbidgee River	19.51	63.2	5.8	26	17	7.91	211	6.3	Overcast day. Light shower overnight. Light breeze. QA's taken here.	Low DO (%) could be attributed increased temperatures at the time of the sampling as seen in previous monitoring rounds.
8/02/2026 9:35	EPL32	Tantangara Reservoir, Tantangara Intake. Downstream of construction works	19.08	67	6.21	26	17	7.6	221	5.2	Overcast day. Light overnight rain. Light breeze.	Low DO (%) is reflective of upstream locations (EPL39 and EPL40).
8/02/2026 9:16	EPL38	Tantangara Reservoir, variable location dependant on tide and reservoir levels. Between the emplacement area and the ancillary facilities for emplacement activities	18.67	65.4	6.11	27	17	7.18	234	3.1	Overcast day. Light rain overnight. Slight breeze.	Low DO (%) is reflective of upstream locations (EPL39 and EPL40).
7/02/2026 11:03	EPL39	Confluence of Nungar Creek and Tantangara Reservoir, variable location dependent on tide and reservoir levels. Upstream of Tantangara construction works	17.95	56.6	5.36	27	18	7.18	200	6.8	Clear day. No re ent rain. Water level low. Signs of hard hooved animals at sample point. QA's taken here.	Low DO% is within the baseline water quality results summary in the surface water management plan, refering to frequent exceedances during the warmer months. This is an upgradient location and is not considered to be affected by the project.
8/02/2026 8:55	EPL40	Confluence of the upper Murrumbidgee River and Tantangara Reservoir, variable location dependent on tide and reservoir levels. Upstream of works	18.27	55.3	5.21	30	20	7.37	229	4.3	Rany day, clear water, no odour	This upstream location has had no construction works impacting the area. Low DO% is within the baseline water water quality results summary in the surface water management plan.
8/02/2026 9:52	EPL 51	Tantangara Reservoir, downstream of Tantangara STP/PWTP diffuser outlet	19.24	66	6.09	26	17	7.88	215	6.1	Overcast day. Light rain overnight. Light breeze.	Low DO (%) is likely attributed to the temperature increase at the time of the sampling as seen in previous monitoring rounds.
1/02/2026 9:00	EPL107	Upstream monitoring of Ravine Bay emplacement area within Yarrangobilly River	25.12	83.4	6.87	48	31	8.29	129	0.96	Overcast day. Recent rain event >20mm. Turbity measured with Hach meter.	The elevation in EC is consistent with the historical data for this location.
1/02/2026 8:50	EPL108	Monitoring of Ravine Bay emplacement area (center of PSE) within Yarrangobilly River	24.8	62.4	5.17	42	27.00	8.34	116	10.1	Overcast day. Recent rain event >20mm.	The minor elevation in EC and low DO% is consistent with the historical data for this location. Slightly elevated pH is consistent with the upstream location.
1/02/2026 8:41	EPL109	Upstream monitoring of Ravine Bay emplacement area within Yarrangobilly River	24.27	73.2	6.13	45	29	8.48	90	28.8	Overcast day. Recent rain event >20mm. QA,s taken here.	Slightly elevated pH and EC are consistent with the upstream location.

Table 3 - Treated Water Quality Data

Talbingo

Table 3 - Treated Water Quality Data			Water Quality Objectives									
Talbingo			Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)		
			-	-	-	700	-	6.5 - 8.5	-	25		
Date and Time	EPL Site ID	Location Description	Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)	Field Comments	Context
4/02/2026 9:53	EPL41	Lobs Hole STP/PWTP Final Effluent Quality Monitoring Point. Downstream of final treatment, prior to discharge to Talbingo Reservoir.	22.41	81.7	7.09	3	2	7.55	207	16.1	QA_LOB_2 and QA_LOB_3 taken here, clear, no odour, no sheen or foam observed,	All readings are within WQO limits.

Table 4 - Treated Water Quality Data

Tantangara

Tantangara			Water Quality Objectives									
			Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)		
			-	-	-	168	-	6.5 - 8.5	-	25		
Date and Time	EPL Site ID	Location Description	Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)	Field Comments	Context
8/02/2026 7:31	EPL50	Tantangara STP/PWTP Final Effluent Quality Monitoring Point. Downstream of final treatment, prior to discharge to Tantangara Reservoir.	19.31	69.4	6.4	93	61	6.82	239	0.9	Overcast day. Light rain overnight. Sample area clean and tidy.	All readings are within WQO limits.



EPL 21266 In Situ Water Quality Measurements

EPL Monthly In-Situ Monitoring February 2026

Table 5 - Groundwater Quality Data
GF01 Surface Water and Groundwater

Water Quality Objectives							
Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)
-	90 - 110	-	30 - 350	-	6.5 - 8.0	-	2 -25

Date and Time	EPL Site ID	Location Description	Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)	Field Comments	Context
24/02/2026 11:20	EPL1	Wallace Creek Bridge, west of ECVT portal	-	-	-	-	-	-	-	-	Sample not take due water and over sample point.	Low DO% and pH are within the baseline water quality summary, as is higher EC. These results are similar to those collected in February 2025.
24/02/2026 11:08	EPL2	Wallace Creek Bridge, West of ECVT portal	18.97	18.3	1.7	483	314	6.45	9	53.9	Clear day. Recent rain event >30mm.	Location not sampled due to surface water inundation.
24/02/2026 11:27	EPL4	Lobs Hole Portal Access, west of MAT portal	-	-	-	-	-	-	-	-	Sample not take due water and over sample point.	Location not sampled due to surface water inundation.
24/02/2026 11:34	EPL25	Monitoring wel, downslope of MAT portal	18.44	35	3.28	456	296	7.03	123	11.8	Clear day. Recent rain event <30mm. Area around monument wet.	Low DO% and pH are within the baseline water quality summary, as is higher EC. These results are similar to those collected in February 2025.
3/02/2026 14:28	EPL56	GF01 groundwater upstream east	18.97	95.7	8.87	234	152	8.62	154	9.1	Clear day. No recent rain. Bore no longer representative of an upgradient location.	Slightly elevated pH is consistent with previous sampling rounds.
3/02/2026 14:45	EPL57	GF01 groundwater upstream west	22.09	79.5	6.93	244	158	8.68	161	35.6	Clear day. No recent rain. Location no longer representaive of an upgradient location.	Slightly low DO (%) and higher pH is consistent with the historical data for this upstream location.
11/02/2026 11:15	EPL58	GF01 groundwater downstream	19.52	101	9.25	862	552	6.4	237	144	Clear day. No recent rain. Pump not working water extracted with hose.	EC concentrations being above the WQO's is within the historical conditions recorded in previous monitoring rounds, as is the slightly lower pH.
14/02/2026 8:18	EPL68	Tantangara groundwater downstream West	12.18	78.9	8.47	21	13	7.38	193	72	Bore pumped, clear flowing water. Cloudy foggy day with no wind. No odour or sheen.	Low EC and DO % is consistent with the historical data for this location. This is in line with seasonal changes.
7/02/2026 11:41	EPL69	Tantangara groundwater downstream East	15.88	31	3.07	39	25	6.01	253	296	Clear day. No recent rain. Water yellowy colour.	Low pH and DO % is generally consistent with the historical data for this location. This falls in line with current seasonal changes.
7/02/2026 10:02	EPL70	Tantangara groundwater upstream	14.56	64.8	6.59	80	52	6.73	208	71	Clear day. No recent rain. Hydroseed sprayed over sample area. Sediment in base of sleeve. Orangy colour.	This location is upgradient of works and therefore representative of background conditions.
22/02/2026 8:11	EPL 72	Marica groundwater upstream	15	33	3.32	73	48	6.47	209	12.7	Sunny day, cloudy. Warm. Sleeve clear.	This location is upgradient of works and therefore representative of background conditions.
14/02/2026 14:54	EPL80	Lick Hole Gully groundwater upstream	19.45	0.9	0.08	880	563	6.88	41	48.8	Water sample turbid No odour Brown sediments observed underneath the hydrasleeve	This location is upgradient of works and therefore representative of background conditions.
18/02/2026 9:27	EPL81	Lick Hole Gully groundwater downstream	19.1	20.6	1.9	845	541	6.85	-33	252	Water sample clear Odour present. Like acid. No rainfall in last 24 hrs	Elevated EC and low DO % align with conditions upgradient of works.
18/02/2026 10:20	EPL82	Main Yard groundwater upstream	19.55	2	0.18	2,770.00	1,770.00	6.8	-11	34	Water sample clear Odour present. Smells like rotten eggs No rainfall in last 24 hrs	Extremely elevated EC is historically at these levels as is low DO %.
18/02/2026 9:54	EPL83	Main Yard groundwater downstream	18.36	0	0	565	361	6.29	7	0	Water sample clear No odour Possible error with Turbidity, and DO	Dissolved Oxygen is typically low in this well as seen through historic monitoring rounds, EC is also sitting within previous concentrations. Turbidity is mentioned in the field notes.
21/02/2026 15:00	EPL87	Main Yard groundwater downstream	20.11	33.5	3.03	831	517	6.64	165	6.2	No recent rain, relatively clear water no odour sheen or foam no nearby works	Elevated EC and low DO % is consistent with previous sampling conditions for this location.
18/02/2026 10:50	EPL88	Main Yard groundwater downstream	18.85	4.4	0.41	908	581	6.81	-44	0	Water sample clear No odour No rainfall in last 24 hrs Possible error with turbidity	Elevated EC and low DO % is consistent with background conditions for this location. Turbidity is mentioned in the field notes.
18/02/2026 9:05	EPL89	Lick Hole Gully groundwater downstream	18.27	9.3	87	407	264	7.12	177	23.7	Water sample slightly turbid No odour	EC concentrations being above the WQO's is within the historical conditions recorded in previous monitoring rounds, as is the slightly lower DO %.
9/02/2026 10:37	EPL 90	GF01 groundwater downstream	17.37	33.1	3.17	49	32	6.06	225	0.83	Clear humid day. QA's taken here. Turbity measured with Hach.	Low DO % and pH is generally consistent with the historical data for this location.
3/02/2026 13:54	EPL 91	GF01 groundwater downstream	19.82	96.3	8.78	250	163	7.13	164	3.3	Overcast day. No recent rain last 24hrs. Light sulphuric smell. Water clear.	All readings are within WQO limits.
3/02/2026 15:03	EPL 92	GF01 groundwater downstream	19.99	59.9	5.45	131	85	7.3	166	137	Clear day. No recent rain.	Low DO % is consistent with this location's historical data.
3/02/2026 15:14	EPL 93	GF01 groundwater downstream	18.17	99	9.33	209	136	7.41	183	542	Clear day. No recent rain.	High turbidity aligns with historical data for this location.
20/02/2026 14:38	EPL 94	GF01 groundwater downstream	17.54	22.5	2.15	162	105	6.83	-1	74.6	Clear day. No recent rain. Water yellowy colour.	Low DO aligns with historical data and the upstream location. Turbity is within the range of previous sample rounds in this location.
5/02/2026 13:18	EPL 95	GF01 groundwater downstream	21.6	36	3.16	748	479	6.4	272	0.9	Clear day. No recent rain. Water clear. Water extracted using electric bore pump.	Elevated EC and low pH and DO % have been consistent at this location for this current seasonal range.
3/02/2026 15:32	EPL 96	GF01 groundwater downstream	17.75	94.4	8.97	439	285	6.67	147	1,000.00	Clear day. No recent rain. Water orange colour.	Elevated EC and high turbidity is consistent with historical ranges for this location.



EPL 21266 In Situ Water Quality Measurements

EPL Monthly In-Situ Monitoring February 2026												
6/02/2026 8:29	EPL 97	GF01 groundwater downstream	15.31	16.8	1.68	475	308	6.65	214	20.3	Clear day. No recent rain. Water clear. No odour.	Elevated EC and low DO % is consistent at this location for this current seasonal range.
22/02/2026 8:27	EPL103	Upstream groundwater monitoring west of the Tantangara emplacement area	14.16	50.9	5.22	41	27	6.11	254	15.6	Clear day. No recent rain. Water clear.	This location is upgradient of works and therefore low DO % and pH is considered representative of background conditions.
7/02/2026 11:57	EPL104	Dowslope groundwater monitoring east of the Tantangara emplacement area	14.98	37.3	3.76	46	30	6.13	239	23.9	Clear day. No recent rain. No odour. Water clear.	Low DO aligns with results upgradient of PSE. The pH concentration is slightly outside of the WQO's however consistent with low levels throughout Tantangara PSE area.
14/02/2026 8:38	EPL105	Dowslope groundwater monitoring east of the Tantangara emplacement area	13.18	84.5	8.87	90	59	7.33	187	59.2	Bore pump, clear flowing water. Cloudy foggy day with no wind. No odour or sheen. QA-1 completed here.	Low DO % and pH are consistent with historical data and for this location.
13/02/2026 12:17	EPL113	Upstream east monitoring of Ravine Bay emplacement area	17.22	7.6	73	119	77	6.24	117	40.9	Sunny day, no odour or sheen, clear	This is an upgradient location and not affected by project activities.
20/02/2026 9:39	EPL114	Upstream west monitoring of Ravine Bay emplacement area	18.42	90	8.44	120	78	6.34	206	70.9	Clear day. No recent rain.	This location is upgradient of works and therefore representative of background conditions.
20/02/2026 10:00	EPL115	Downstream east monitoring of Ravine Bay emplacement area	17.96	113.6	10.75	313	204	6.93	195	49	Clear day. No recent rain. Hydromulch on and around monument.	Slightly elevated DO % is consistent with sampling rounds conducted during the warmer months.
7/02/2026 8:57	EPL116	Downstream west monitoring of Ravine Bay emplacement area	17.39	37.8	3.62	201	130	7.24	132	864.00	Turbid, only 50% full hydrosleeve, no odour, no recent rainfall, no sheen, not enough for sample	DO % is consistent with the upgradient location these results are similar in comparison to February 2025. Turbidity is noted in the field notes and also the physio-chemical results.
7/02/2026 7:52	EPL117	Downstream monitoring of Ravine Bay emplacement area	13.68	1.4	0.14	145	94	6.77	-18	545	Clear, some sediment at bottom, end of sleeve used for horiba hence high turbidity, no odour, sunny day, no recent rainfall, no sheen	DO % is consistent with the upgradient location. Turbidity has been noted in the field notes.



Snowy 2.0 Environmental Protection License Water Quality Results

Monitoring Period	1 - 31 March 2026
Environmental Protection Licence No:	21266
Licensee:	Snowy Hydro Limited
Licensee address:	PO Box 332, Cooma, NSW 2630
Premises:	Snowy 2.0 Pumped Hydro Power Station Talbingo and Tantangara, Kosciuszko National Park and Rock Forest, Kosciuszko NSW 2642
EPA Public Register:	https://apps.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=21266&id=21266&option=licence&searchrange=licence&range=POEO%20licence&prp=no&status=Issued

SUMMARY	
Groundwater Water Quality Results:	Elevated nutrient concentrations continued to be observed in groundwater monitoring wells across the Snowy 2.0 sites during March, particularly in locations within proximity to high activity areas. As previous reported, bores downgradient of the GF01 emplacement area recorded the highest nutrient concentrations, with Total Nitrogen (TN) concentrations of 42,400 µg/L at EPL58 and 45,700 µg/L at EPL95, and Total Phosphorus reaching 1,760 µg/L at EPL93. Elevated TN concentrations were also recorded within locations at the Tantangara PSE Monitoring Zone as EPL105 reported concentrations of 4,900 µg/L. In the Main Yard Monitoring Zone, exceedances of Total Nitrogen were observed with the highest concentration of 15,100 µg/L at EPL87. Ravine Bay reported TN concentrations as greater than WQOs although lower than those recorded at other sites, with a maximum of 400 µg/L at EPL116. Selected metals exceeded WQOs at various locations, particularly Cu, Zn, and Cr. The highest concentrations were recorded downgradient from GF01 emplacement area, including 136 µg/L dissolved copper (EPL95), 68 µg/L dissolved zinc (EPL97), and 18.2 µg/L dissolved chromium (EPL96). Elevated dissolved copper was also observed upstream (east) of the Ravine Bay emplacement area, with 104 µg/L. Low pH values (4.81–5.88), below WQOs, were recorded along the Tantangara emplacement area, decreasing compared to February but consistent with previous monitoring periods. EPL1,2,4 and 25 are sampled on a quarterly basis therefore they were not included during the March period.
Reservoir Water Quality Results:	Elevated faecal coliform concentrations were observed at Talbingo Reservoir, with notable exceedances at EPL10, EPL11, and EPL107 (300–430 CFU/100 mL and up to 8,600 CFU/100 mL, respectively). These results are consistent with seasonal influences, including warmer temperatures and relatively stable water conditions that can promote bacterial persistence and growth. At Tantangara Reservoir, nutrient concentrations, particularly Total Nitrogen (TN) exceeded WQO across multiple sites (EPL28, EPL29, EPL32, EPL38, EPL40, and EPL51) with concentrations up to 1,700 µg/L at EPL51 indicating elevated nutrient availability across the waterbody. Whilst the aforementioned concentrations primarily comprised of Kjeldahl Nitrogen, elevated Ammonia and Phosphorous concentrations within above and below gradient locations indicate a potential ambient condition during the time of sampling. The elevated pH, turbidity and green discolouration across the Monitoring Zone are consistent with increased algal activity typically noted to occur during this time in previous monitoring rounds. Additional sampling will be undertaken in early April to verify the natural cycle is not influenced by any Project activities.
Surface Water Quality Results:	The Yarrangobilly River Monitoring Zone reported reduced levels of DO in locations EPL5, EPL6, EPL8, EPL9, EPL12, EPL14 and EPL15. These concentrations are less than the adopted WQO's. TN concentrations within EPL9, EPL12, EPL15 were comprised entirely of TKN, with concentrations of up to 600 µg/L at EPL15 in excess of the adopted WQO's. Ammonia exceedance concentrations ranged from 20 µg/L at EPL5 to 180 µg/ at EPL15. The concentrations reported within EPL15 are not anticipated to reflect ambient conditions, however further monitoring will be deployed. The GF01 Monitoring Zone reported further elevated nutrient concentrations as EPL24 reported concentrations of 47,200 µg/L whilst 45,100 µg/L was reported within EPL55. Surface water locations at Marica (EPL71) and Ravine Bay (EPL110 and 120) were dry and could not be sampled during March. Due to low water levels within the Tantangara Reservoir, EPL67 has been dry since 2024. Consequently, this location has been consolidated with EPL39, which will serve as the representative monitoring location for establishing ambient water quality conditions for Nungar Creek
Discharge Water Quality Results:	Discharge concentrations were within the adopted criteria.



Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01-31 March 2026 - Groundwater

Analyte	Unit	Level of reporting	Water Quality Objective Value
pH	pH unit	-	6.5-8
Electrical Conductivity	µS/cm	-	100-250
Dissolved Reactive Phosphate	mg/L	-	No Water Quality Objective Value
Temperature	°C	-	No Water Quality Objective Value
Dissolved Chlorine	mg/L	-	0.5-1.0
Chlorinity	NTU	-	0-25
Inorganic Anions			
Total Dissolved Solids	mg/L	5	No Water Quality Objective Value
Sulfate as CaSO ₄	mg/L	5	No Water Quality Objective Value
Inorganic Cations			
Ammonia as N	mg/L	10	5
Calcium	mg/L	10	50
Magnesium as Mg	mg/L	10	50
Sodium + Potassium as NaCl	mg/L	10	50
Dissolved Nitrogen Total	mg/L	100	No Water Quality Objective Value
Nitrate as Nitrate	mg/L	100	1,000
Nitrite as Nitrite	mg/L	10	10
Phosphate as Phosphate	mg/L	10	10
Phosphate as Phosphate	mg/L	10	10
Organics			
Carbon Dioxide	mg/L	5	5
Carbon Dioxide	mg/L	5	5
CO ₂ and Sulfur	mg/L	5	No Water Quality Objective Value
Heavy Metals			
Aluminium (Total)	mg/L	5	No Water Quality Objective Value
Aluminium (Dissolved)	mg/L	5	5
Arsenic (Total)	mg/L	0.2	No Water Quality Objective Value
Arsenic (Dissolved)	mg/L	0.2	0.2
Chromium (Dissolved)	mg/L	0.2	No Water Quality Objective Value
Chromium (Dissolved)	mg/L	0.2	0.2
Copper (Total)	mg/L	0.5	No Water Quality Objective Value
Copper (Dissolved)	mg/L	0.5	0.5
Iron (Total)	mg/L	5	No Water Quality Objective Value
Iron (Dissolved)	mg/L	5	5
Lead (Total)	mg/L	0.1	No Water Quality Objective Value
Lead (Dissolved)	mg/L	0.1	0.1
Manganese (Total)	mg/L	0.5	No Water Quality Objective Value
Manganese (Dissolved)	mg/L	0.5	0.5
Nickel (Total)	mg/L	0.5	No Water Quality Objective Value
Nickel (Dissolved)	mg/L	0.5	0.5
Silver (Total)	mg/L	0.05	No Water Quality Objective Value
Silver (Dissolved)	mg/L	0.05	0.05
Zinc (Total)	mg/L	5	No Water Quality Objective Value
Zinc (Dissolved)	mg/L	5	5

EPL016	EPL017	EPL018	EPL019	EPL020	EPL021	EPL022	EPL023	EPL024	EPL025	EPL026	EPL027	EPL028	EPL029	EPL030	EPL031	EPL032	EPL033	EPL034	EPL035	EPL036	EPL037	EPL038	EPL039	EPL040	EPL041	EPL042	EPL043	EPL044	EPL045	EPL046	EPL047	EPL048	EPL049	EPL050	EPL051	EPL052	EPL053	EPL054	EPL055	EPL056	EPL057	EPL058	EPL059	EPL060	EPL061	EPL062	EPL063	EPL064	EPL065	EPL066	EPL067	EPL068	EPL069	EPL070	EPL071	EPL072	EPL073	EPL074	EPL075	EPL076	EPL077	EPL078	EPL079	EPL080	EPL081	EPL082	EPL083	EPL084	EPL085	EPL086	EPL087	EPL088	EPL089	EPL090	EPL091	EPL092	EPL093	EPL094	EPL095	EPL096	EPL097	EPL098	EPL099	EPL100	EPL101	EPL102	EPL103	EPL104	EPL105	EPL106	EPL107	EPL108	EPL109	EPL110	EPL111	EPL112	EPL113	EPL114	EPL115	EPL116	EPL117	EPL118	EPL119	EPL120	EPL121	EPL122	EPL123	EPL124	EPL125	EPL126	EPL127	EPL128	EPL129	EPL130	EPL131	EPL132	EPL133	EPL134	EPL135	EPL136	EPL137	EPL138	EPL139	EPL140	EPL141	EPL142	EPL143	EPL144	EPL145	EPL146	EPL147	EPL148	EPL149	EPL150	EPL151	EPL152	EPL153	EPL154	EPL155	EPL156	EPL157	EPL158	EPL159	EPL160	EPL161	EPL162	EPL163	EPL164	EPL165	EPL166	EPL167	EPL168	EPL169	EPL170	EPL171	EPL172	EPL173	EPL174	EPL175	EPL176	EPL177	EPL178	EPL179	EPL180	EPL181	EPL182	EPL183	EPL184	EPL185	EPL186	EPL187	EPL188	EPL189	EPL190	EPL191	EPL192	EPL193	EPL194	EPL195	EPL196	EPL197	EPL198	EPL199	EPL200	EPL201	EPL202	EPL203	EPL204	EPL205	EPL206	EPL207	EPL208	EPL209	EPL210	EPL211	EPL212	EPL213	EPL214	EPL215	EPL216	EPL217	EPL218	EPL219	EPL220	EPL221	EPL222	EPL223	EPL224	EPL225	EPL226	EPL227	EPL228	EPL229	EPL230	EPL231	EPL232	EPL233	EPL234	EPL235	EPL236	EPL237	EPL238	EPL239	EPL240	EPL241	EPL242	EPL243	EPL244	EPL245	EPL246	EPL247	EPL248	EPL249	EPL250	EPL251	EPL252	EPL253	EPL254	EPL255	EPL256	EPL257	EPL258	EPL259	EPL260	EPL261	EPL262	EPL263	EPL264	EPL265	EPL266	EPL267	EPL268	EPL269	EPL270	EPL271	EPL272	EPL273	EPL274	EPL275	EPL276	EPL277	EPL278	EPL279	EPL280	EPL281	EPL282	EPL283	EPL284	EPL285	EPL286	EPL287	EPL288	EPL289	EPL290	EPL291	EPL292	EPL293	EPL294	EPL295	EPL296	EPL297	EPL298	EPL299	EPL300	EPL301	EPL302	EPL303	EPL304	EPL305	EPL306	EPL307	EPL308	EPL309	EPL310	EPL311	EPL312	EPL313	EPL314	EPL315	EPL316	EPL317	EPL318	EPL319	EPL320	EPL321	EPL322	EPL323	EPL324	EPL325	EPL326	EPL327	EPL328	EPL329	EPL330	EPL331	EPL332	EPL333	EPL334	EPL335	EPL336	EPL337	EPL338	EPL339	EPL340	EPL341	EPL342	EPL343	EPL344	EPL345	EPL346	EPL347	EPL348	EPL349	EPL350	EPL351	EPL352	EPL353	EPL354	EPL355	EPL356	EPL357	EPL358	EPL359	EPL360	EPL361	EPL362	EPL363	EPL364	EPL365	EPL366	EPL367	EPL368	EPL369	EPL370	EPL371	EPL372	EPL373	EPL374	EPL375	EPL376	EPL377	EPL378	EPL379	EPL380	EPL381	EPL382	EPL383	EPL384	EPL385	EPL386	EPL387	EPL388	EPL389	EPL390	EPL391	EPL392	EPL393	EPL394	EPL395	EPL396	EPL397	EPL398	EPL399	EPL400	EPL401	EPL402	EPL403	EPL404	EPL405	EPL406	EPL407	EPL408	EPL409	EPL410	EPL411	EPL412	EPL413	EPL414	EPL415	EPL416	EPL417	EPL418	EPL419	EPL420	EPL421	EPL422	EPL423	EPL424	EPL425	EPL426	EPL427	EPL428	EPL429	EPL430	EPL431	EPL432	EPL433	EPL434	EPL435	EPL436	EPL437	EPL438	EPL439	EPL440	EPL441	EPL442	EPL443	EPL444	EPL445	EPL446	EPL447	EPL448	EPL449	EPL450	EPL451	EPL452	EPL453	EPL454	EPL455	EPL456	EPL457	EPL458	EPL459	EPL460	EPL461	EPL462	EPL463	EPL464	EPL465	EPL466	EPL467	EPL468	EPL469	EPL470	EPL471	EPL472	EPL473	EPL474	EPL475	EPL476	EPL477	EPL478	EPL479	EPL480	EPL481	EPL482	EPL483	EPL484	EPL485	EPL486	EPL487	EPL488	EPL489	EPL490	EPL491	EPL492	EPL493	EPL494	EPL495	EPL496	EPL497	EPL498	EPL499	EPL500	EPL501	EPL502	EPL503	EPL504	EPL505	EPL506	EPL507	EPL508	EPL509	EPL510	EPL511	EPL512	EPL513	EPL514	EPL515	EPL516	EPL517	EPL518	EPL519	EPL520	EPL521	EPL522	EPL523	EPL524	EPL525	EPL526	EPL527	EPL528	EPL529	EPL530	EPL531	EPL532	EPL533	EPL534	EPL535	EPL536	EPL537	EPL538	EPL539	EPL540	EPL541	EPL542	EPL543	EPL544	EPL545	EPL546	EPL547	EPL548	EPL549	EPL550	EPL551	EPL552	EPL553	EPL554	EPL555	EPL556	EPL557	EPL558	EPL559	EPL560	EPL561	EPL562	EPL563	EPL564	EPL565	EPL566	EPL567	EPL568	EPL569	EPL570	EPL571	EPL572	EPL573	EPL574	EPL575	EPL576	EPL577	EPL578	EPL579	EPL580	EPL581	EPL582	EPL583	EPL584	EPL585	EPL586	EPL587	EPL588	EPL589	EPL590	EPL591	EPL592	EPL593	EPL594	EPL595	EPL596	EPL597	EPL598	EPL599	EPL600	EPL601	EPL602	EPL603	EPL604	EPL605	EPL606	EPL607	EPL608	EPL609	EPL610	EPL611	EPL612	EPL613	EPL614	EPL615	EPL616	EPL617	EPL618	EPL619	EPL620	EPL621	EPL622	EPL623	EPL624	EPL625	EPL626	EPL627	EPL628	EPL629	EPL630	EPL631	EPL632	EPL633	EPL634	EPL635	EPL636	EPL637	EPL638	EPL639	EPL640	EPL641	EPL642	EPL643	EPL644	EPL645	EPL646	EPL647	EPL648	EPL649	EPL650	EPL651	EPL652	EPL653	EPL654	EPL655	EPL656	EPL657	EPL658	EPL659	EPL660	EPL661	EPL662	EPL663	EPL664	EPL665	EPL666	EPL667	EPL668	EPL669	EPL670	EPL671	EPL672	EPL673	EPL674	EPL675	EPL676	EPL677	EPL678	EPL679	EPL680	EPL681	EPL682	EPL683	EPL684	EPL685	EPL686	EPL687	EPL688	EPL689	EPL690	EPL691	EPL692	EPL693	EPL694	EPL695	EPL696	EPL697	EPL698	EPL699	EPL700	EPL701	EPL702	EPL703	EPL704	EPL705	EPL706	EPL707	EPL708	EPL709	EPL710	EPL711	EPL712	EPL713	EPL714	EPL715	EPL716	EPL717	EPL718	EPL719	EPL720	EPL721	EPL722	EPL723	EPL724	EPL725	EPL726	EPL727	EPL728	EPL729	EPL730	EPL731	EPL732	EPL733	EPL734	EPL735	EPL736	EPL737	EPL738	EPL739	EPL740	EPL741	EPL742	EPL743	EPL744	EPL745	EPL746	EPL747	EPL748	EPL749	EPL750	EPL751	EPL752	EPL753	EPL754	EPL755	EPL756	EPL757	EPL758	EPL759	EPL760	EPL761	EPL762	EPL763	EPL764	EPL765	EPL766	EPL767	EPL768	EPL769	EPL770	EPL771	EPL772	EPL773	EPL774	EPL775	EPL776	EPL777	EPL778	EPL779	EPL780	EPL781	EPL782	EPL783	EPL784	EPL785	EPL786	EPL787	EPL788	EPL789	EPL790	EPL791	EPL792	EPL793	EPL794	EPL795	EPL796	EPL797	EPL798	EPL799	EPL800	EPL801	EPL802	EPL803	EPL804	EPL805	EPL806	EPL807	EPL808	EPL809	EPL810	EPL811	EPL812	EPL813	EPL814	EPL815	EPL816	EPL817	EPL818	EPL819	EPL820	EPL821	EPL822	EPL823	EPL824	EPL825	EPL826	EPL827	EPL828	EPL829	EPL830	EPL831	EPL832	EPL833	EPL834	EPL835	EPL836	EPL837	EPL838	EPL839	EPL840	EPL841	EPL842	EPL843	EPL844	EPL845	EPL846	EPL847	EPL848	EPL849	EPL850	EPL851	EPL852	EPL853	EPL854	EPL855	EPL856	EPL857	EPL858	EPL859	EPL860	EPL861	EPL862	EPL863	EPL864	EPL865	EPL866	EPL867	EPL868	EPL869	EPL870	EPL871	EPL872	EPL873	EPL874	EPL875	EPL876	EPL877	EPL878	EPL879	EPL880	EPL881	EPL882	EPL883	EPL884	EPL885	EPL886	EPL887	EPL888	EPL889	EPL890	EPL891	EPL892	EPL893	EPL894	EPL895	EPL896	EPL897	EPL898	EPL899	EPL900	EPL901	EPL902	EPL903	EPL904	EPL905	EPL906	EPL907	EPL908	EPL909	EPL910	EPL911	EPL912	EPL913	EPL914	EPL915	EPL916	EPL917	EPL918	EPL919	EPL920	EPL921	EPL922	EPL923	EPL924	EPL925	EPL926	EPL927	EPL928	EPL929	EPL930	EPL931	EPL932	EPL933	EPL934	EPL935	EPL936	EPL937	EPL938	EPL939	EPL940	EPL941	EPL942	EPL943	EPL944	EPL945	EPL946	EPL947	EPL948	EPL949	EPL950	EPL951	EPL952	EPL953	EPL954	EPL955	EPL956	EPL957	EPL958	EPL959	EPL960	EPL961	EPL962	EPL963	EPL964	EPL965	EPL966	EPL967	EPL968	EPL969	EPL970	EPL971	EPL972	EPL973	EPL974	EPL975	EPL976	EPL977	EPL978	EPL979	EPL980	EPL981	EPL982	EPL983	EPL984	EPL985	EPL986	EPL987	EPL988	EPL989	EPL990	EPL991	EPL992	EPL993	EPL994	EPL995	EPL996	EPL997	EPL998	EPL999	EPL1000	EPL1001	EPL1002	EPL1003	EPL1004	EPL1005	EPL1006	EPL1007	EPL1008	EPL1009	EPL1010	EPL1011	EPL1012	EPL1013	EPL1014	EPL1015	EPL1016	EPL1017	EPL1018	EPL1019	EPL1020	EPL1021	EPL1022	EPL1023	EPL1024	EPL1025	EPL1026	EPL1027	EPL1028	EPL1029	EPL1030	EPL1031	EPL1032	EPL1033	EPL1034	EPL1035	EPL1036	EPL1037	EPL1038	EPL1039	EPL1040	EPL1041	EPL1042	EPL1043	EPL1044	EPL1045	EPL1046	EPL1047	EPL1048	EPL1049	EPL1050	EPL1051	EPL1052	EPL1053	EPL1054	EPL1055	EPL1056	EPL1057	EPL1058	EPL1059	EPL1060	EPL1061	EPL1062	EPL1063	EPL1064	EPL1065	EPL1066	EPL1067	EPL1068	EPL1069	EPL1070	EPL1071	EPL1072	EPL1073	EPL1074	EPL1075	EPL1076	EPL1077	EPL1078	EPL1079	EPL1080	EPL1081	EPL1082	EPL1083	EPL1084	EPL1085	EPL1086	EPL1087	EPL1088	EPL1089	EPL1090	EPL1091	EPL1092	EPL1093	EPL1094	EPL1095	EPL1096	EPL1097	EPL1098	EPL1099	EPL1100	EPL1101	EPL1102	EPL1103	EPL1104	EPL1105	EPL1106	EPL1107	EPL1108	EPL1109	EPL1110	EPL1111	EPL1112	EPL1113	EPL1114	EPL1115	EPL1116	EPL1117	EPL1118	EPL1119	EPL1120	EPL1121	EPL1122	EPL1123	EPL1124	EPL1125	EPL1126	EPL1127	EPL1128	EPL1129	EPL1130	EPL1131	EPL1132	EPL1133	EPL1134	EPL1135	EPL1136	EPL1137	EPL1138	EPL1139	EPL1140	EPL1141	EPL1142	EPL1143	EPL1144	EPL1145	EPL1146	EPL1147	EPL1148	EPL1149	EPL1150	EPL1151	EPL1152	EPL1153	EPL1154	EPL1155	EPL1156	EPL1157	EPL1158	EPL1159	EPL1160	EPL1161	EPL1162	EPL1163	EPL1164	EPL1165	EPL1166	EPL1167	EPL1168	EPL1169	EPL1170	EPL1171	EPL1172	EPL1173	EPL1174	EPL1175	EPL1176	EPL1177	EPL1178	EPL1179	EPL1180	EPL1181	EPL1182	EPL1183	EPL1184	EPL1185	EPL1186	EPL1187	EPL1188	EPL1189	EPL1190	EPL1191	EPL1192	EPL1193	EPL1194	EPL1195	EPL1196	EPL1197	EPL1198	EPL1199	EPL1200	EPL1201	EPL1202	EPL1203	EPL1204	EPL1205	EPL1206	EPL1207	EPL1208	EPL1209	EPL1210	EPL1211	EPL1212	EPL1213	EPL1214	EPL1215	EPL1216	EPL1217	EPL1218	EPL1219	EPL1220	EPL1221	EPL1222	EPL1223	EPL1224	EPL1225	EPL1226	EPL1227	EPL1228	EPL1229	EPL1230	EPL1231	EPL1232	EPL1233	EPL1234	EPL1235	EPL1236	EPL1237	EPL1238	EPL1239	EPL1240	EPL1241	EPL1242	EPL1243	EPL1244	EPL1245	EPL1246	EPL1247	EPL1248	EPL1249	EPL1250	EPL1251	EPL1252	EPL1253	EPL1254	EPL1255	EPL1256	EPL1257	EPL1258	EPL1259	EPL1260	EPL1261	EPL1262	EPL1263	EPL1264	EPL1265	EPL1266	EPL1267	EPL1268	EPL1269	EPL1270	EPL1271	EPL1272	EPL1273	EPL1274	EPL1275	EPL1276	EPL1277	EPL1278	EPL1279	EPL1280	EPL1281	EPL1282	EPL1283	EPL1284	EPL1285	EPL1286	EPL1287	EPL1288	EPL1289	EPL1290	EPL1291	EPL1292	EPL1293	EPL1294	EPL1295	EPL1296	EPL1297	EPL1298	EPL1299	EPL1300	EPL1301	EPL1302	EPL1303	EPL1304	EPL1305	EPL1306	EPL1307	EPL1308	EPL1309	EPL1310	EPL1311	EPL1312	EPL1313	EPL1314	EPL1315	EPL1316	EPL1317	EPL1318	EPL1319	EPL1320	EPL1321	EPL1322	EPL1323	EPL1324	EPL1325	EPL1326	EPL1327	EPL1328	EPL1329	EPL1330	EPL1331	EPL1332	EPL1333	EPL1334	EPL1335	EPL1336	EPL1337	EPL1338	EPL1339	EPL1340	EPL1341	EPL1342	EPL1343	EPL1344	EPL1345	EPL1346	EPL1347	EPL1348	EPL1349	EPL1350	EPL1351	EPL1
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Monthly EPI Sampling: 01-31 March 2026 - Surface Water

[illegible]



Snowy Hydro 2.0 Main Works

Monthly EPL Sampling: 01-31 March 2026 - Talbingo and Tantangara Reservoir

Analyte	Unit	Limit of reporting	Water Quality Objective Value
Field			
pH	pH unit	-	6.5-8
Electrical Conductivity	µS/cm	-	20-30
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value
Temperature	°C	-	No Water Quality Objective Value
Dissolved Oxygen	% saturation	-	90-110
Turbidity	NTU	-	1-20
Laboratory analytes			
Total Suspended Solids	mg/L	5	No Water Quality Objective Value
Hardness as CaCO3	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	µg/L	10	10
Nitrite + Nitrate as N (NOx)	µg/L	10	10
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value
Nitrogen (Total)	µg/L	100	350
Reactive Phosphorus (filtered)	µg/L	10	5
Phosphorus (Total)	µg/L	10	10
Inorganics			
Cyanide Total	mg/L	0.004	0.007
Hydrocarbons			
Oil and Grease	mg/L	1	No Water Quality Objective Value
Metals			
Aluminium (dissolved)	µg/L	5	55
Arsenic (dissolved)	µg/L	0.2	13
Chromium (III+VI) (dissolved)	µg/L	0.2	0.01
Copper (dissolved)	µg/L	0.5	1.4
Iron (dissolved)	µg/L	2	300
Lead (dissolved)	µg/L	0.1	3.4
Manganese (dissolved)	µg/L	0.5	1,900
Nickel (dissolved)	µg/L	0.5	11
Silver (dissolved)	µg/L	0.01	0.05
Zinc (dissolved)	µg/L	1	8
Biological			
Faecal Coliforms	CFU/100mL	1	No Water Quality Objective Value
Biochemical Oxygen Demand	mg/L	2	No Water Quality Objective Value

EPL10	EPL11	EPL28	EPL29	EPL32	EPL38	EPL39	EPL40	EPL51	EPL107	EPL108	EPL109
01 Mar 2026	01 Mar 2026	18 Mar 2026	18 Mar 2026	18 Mar 2026	18 Mar 2026	15 Mar 2026	18 Mar 2026	18 Mar 2026	18 Mar 2026	01 Mar 2026	01 Mar 2026
7.62	7.7	9.81	9.57	9.6	9.63	6.27	9.94	9.61	7.9	7.58	7.55
86	61	34	32	32	32	29	34	35	41	34	36
200	198	111	134	131	133	215	113	132	223	186	184
23.17	22.99	16.71	17.81	17.7	17.6	16.79	16.85	17.68	21.05	22.69	22.62
82.5	83.3	94.3	92.5	72.1	86.5	93.8	95	83.5	99.7	99.4	94.2
1.1	4.6	43.2	58.2	45.4	50.0	5.8	48.3	39.4	8.3	16.9	21.9
<5	<5	12	13	6	8	<5	14	6	<5	<5	<5
39	22	5	5	5	5	7	5	2	10	10	10
30	20	20	50	70	30	<10	20	150	80	60	20
<10	<10	<10	<10	<10	<10	30	<10	<10	<10	<10	<10
200	200	1,600	1,500	1,300	700	200	900	1,700	200	200	300
200	200	1,600	1,500	1,300	700	200	900	1,700	200	200	300
<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
<10	20	40	40	50	30	20	30	50	10	10	<10
<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
<5	<5	36	31	26	33	27	36	31	<5	<5	<5
0.6	0.4	0.4	0.4	0.4	0.4	<0.2	0.4	0.4	0.2	0.3	0.3
<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	<0.2	<0.2
<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
32	22	282	170	149	195	115	275	153	9	6	8
<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
<0.5	<0.5	9.4	3.4	2.8	4.0	2.7	9.0	2.8	<0.5	<0.5	<0.5
<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
<1	<1	<1	<1	<1	2	<1	<1	<1	<1	<1	<1
300	430	85	-	-	-	-	-	1	8,600	-	-
2	<2	7	-	-	-	-	-	5	<2	-	-



Snowy Hydro 2.0 Main Works

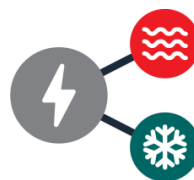
Monthly EPL Sampling: 01-31 March 2026 - Discharge Water

Analyte	Unit	Limit of reporting	Water Quality Objective Value*
Flow			
Volume	ML/day	-	4.32
Discharge Flow Rate	Litres per Second	-	50
Field			
pH	pH unit	-	6.5-8.5
Electrical Conductivity	µS/cm	-	700 (EPL 41) / 200 (EPL 50)
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value
Temperature	°C	-	No Water Quality Objective Value
Dissolved Oxygen	% saturation	-	No Water Quality Objective Value
Turbidity	NTU	-	No Water Quality Objective Value
Laboratory analytes			
Total Suspended Solids	mg/L	5	5
Hardness as CaCO3	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	µg/L	10	1000
Nitrite + Nitrate as N (NOx)	µg/L	10	No Water Quality Objective Value
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value
Nitrogen (Total)	µg/L	100	1500
Reactive Phosphorus	µg/L	1	No Water Quality Objective Value
Phosphorus (Total)	µg/L	10	300
Inorganics			
Cyanide Total	µg/L	4	No Water Quality Objective Value
Hydrocarbons			
Oil and Grease	mg/L	1	2
Metals			
Aluminium (dissolved)	µg/L	5	55
Arsenic (dissolved)	µg/L	0.2	13
Chromium (III+VI) (dissolved)	µg/L	0.2	1
Copper (dissolved)	µg/L	0.5	14
Iron (dissolved)	µg/L	2	300
Lead (dissolved)	µg/L	0.1	3.4
Manganese (dissolved)	µg/L	0.5	1,900
Nickel (dissolved)	µg/L	0.5	11
Silver (dissolved)	µg/L	0.01	0.05
Zinc (dissolved)	µg/L	1	8
Biological			
Faecal Coliforms	CFU/100mL	1	10
Biochemical Oxygen Demand	mg/L	2	3.5

EPL41	EPL50
04 Mar 2026	15 Mar 2026
0.37**	0.64**
<50	<50
7.98	7.02
6	108
189	206
22.58	11.05
63.2	54.7
7.6	2.7
<5	<5
<1	<1
40	60
60	240
<100	200
<100	400
<10	<10
<10	<10
<4	<4
<1.0	<1.0
<5	<5
<0.2	<0.2
<0.2	<0.2
<0.5	<0.5
<2	<2
<0.1	<0.1
<0.5	<0.5
<0.5	<0.5
<0.01	<0.01
<1	<1
1	<1
<2	<2

* Water Quality Objectives are reflective of 90th Percentile Concentration Limits as per Condition L2.4.

** Flow rates recorded via EPL43 and 50



Future Generation
Web • Lane

Snowy Hydro 2.0 Main Works

Monthly EPL Sampling: 01-31 March 2026 - Volumes

Date
1/3/2026
2/03/2026
3/03/2026
4/03/2026
5/03/2026
6/03/2026
7/03/2026
8/03/2026
9/03/2026
10/03/2026
11/03/2026
12/03/2026
13/03/2026
14/03/2026
15/03/2026
16/03/2026
17/03/2026
18/03/2026
19/03/2026
20/03/2026
21/03/2026
22/03/2026
23/03/2026
24/03/2026
25/03/2026
26/03/2026
27/03/2026
28/03/2026
29/03/2026
30/03/2026
31/03/2026

EPL 43	EPL 50
Discharge volume (Megalitres)	
-	-
0.61	0.59
-	0.93
0.37	0.50
0.43	0.45
0.58	0.23
-	0.40
0.32	-
0.41	0.39
-	-
0.39	0.34
-	-
-	-
0.38	0.18
0.55	-
-	0.14
0.32	0.05
-	-
0.45	0.19
-	0.20
0.51	0.19
0.49	-
0.35	0.46
0.57	0.35
-	0.46
-	0.50
-	0.52
0.58	0.51
0.62	0.57
0.19	0.37
-	0.51



EPL 21266 In Situ Water Quality Measurements
EPL Monthly Monitoring March 2026

Table 1 - Surface Water Quality Data
River and Minor Watercourses

Water Quality Objectives (see note 1)							
Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)
-	90 - 110	-	30 - 350	-	6.5 - 8.0	-	2 - 25

Date and Time	EPL Site ID	Location Description	Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)	Field Comments	Context
24/03/2026 9:30	EPL5	Yarrangobilly River, upstream of the exploratory tunnel and construction pad	16.03	87.6	8.64	111	72	8.04	182	3.92	Water fast flowing, Water sample looks clean, No turbidity observed, Rainfall in last 24 hrs, Turbidity tested with Hach meter	Low DO% and high pH is within the baseline water quality results summary in the surface water management plan, referring to frequent exceedances during the warmer months. This is an upgradient location and is not considered to be affected by the construction works.
24/03/2026 10:06	EPL6	Wallace's Creek, upstream of Yarrangobilly River and Wallace's Creek confluence	15.74	61.1	6.06	92	60	7.39	223	0.5	Water flow medium, No turbidity observed, water sample clean, Rainfall in last 24 hrs, Turbidity test to be requested to NATA approved Lab.	Low DO% is within the range of upstream locations. Turbidity has been verified by a NATA approved Lab report as 0.5 NTU.
24/03/2026 11:04	EPL8	Yarrangobilly River, downstream of Lick Hole Gully	18.85	67.9	6.31	125	81	7.43	216	0.4	River flow fast, No turbidity observed, water sample clean, Rainfall in last 24 hrs	Low DO% is within the range of upstream locations. Turbidity is noted in the field observations.
24/03/2026 14:45	EPL9	Yarrangobilly River, downstream of the accommodation camp and upstream of Talbingo Reservoir	24.23	72.4	6.06	124	80	8.42	166	2.51	River flow medium, No turbidity observed, water sample clean, Rainfall in last 24 hrs, Turbidity tested by hach meter	DO% is considered to be representative of the upgradient locations. Elevated pH is within the baseline water quality summary results in the surface water management plan.
24/03/2026 9:47	EPL12	Yarrangobilly River, immediately downstream of portal pad	16.07	74.7	7.36	108	70	7.58	215	1.1	Water fast flowing, No turbidity observed, clean water sample, Rainfall in last 24 hrs	Turbidity is noted in the field observations. Low DO% is within the range of upstream locations.
24/03/2026 10:27	EPL14	Yarrangobilly River, downstream of road construction areas	16.55	72.1	7.03	106	69	7.4	225	1.68	River flow medium, No turbidity observed and water sample clean, Rainfall in last 24 hrs, Turbidity tested by hach meter	Low DO% is within the range of upstream locations and baseline water quality results in the surface water management plan. Turbidity is mentioned in the field notes.
24/03/2026 10:47	EPL15	Yarrangobilly River, downstream of road construction areas	17.03	97.6	9.42	112	72	7.45	221	1.68	River flow medium, No turbidity observed and water sample clean, Rainfall in last 24 hrs, Turbidity tested by hach meter	Turbidity is noted in the field observations, all other concentrations are within the WQO's.
24/03/2026 14:59	EPL16	Yarrangobilly River, downstream of road construction areas	21.69	98.1	8.65	118	77	8.19	178	1.54	River flow high, Clear water sample, Rainfall in last 24 hrs, Turbidity tested with hach meter, QA sampled in this location	Slightly elevated pH is within the baseline water quality results summary in the water quality management plan. Turbity has been noted in the field comments.
3/03/2026 9:26	EPL24	Yarrangobilly River tributary (Watercourse 2), directly downstream of road	18.37	49.1	4.6	1100	706	7.1	221	6.2	Clear day. recent rain event >50mm. Water flowing.	DO levels are decreasing while EC is increasing, this will be monitored closely.
20/03/2026 11:02	EPL26	Eucumbene River downstream of Marica Road	15.37	94.6	9.46	24	16	8.29	103	0.7	Partially cloudy day, no rain, low water lever, low flow, no odour.	The recorded concentrations are representative of the upgradient environmental conditions consistently observed within previous monitoring rounds at this location due to the lack of construction activities in this area. This location has been observed to have frequent activity by hard hooved animals.
20/03/2026 10:40	EPL27	Eucumbene River upstream of Marica Road	16.14	89.2	8.77	19	12	8.55	136	1.98	Partially cloudy day, no rain, no odour, low level water, low flow, clear water, turbidity measured with Hach meter	High altitude and temperatures contribute to DO% being low in this upstream location unaffected by construction activities. All other parameters share similarities to the upgradient location.
15/03/2026 12:53	EPL30	Kellys Plain Creek, downstream of accommodation camp and laydown areas	16.66	72.4	7.05	21	15	6.09	250	25.2	Clear day, no recent rain, low flow, low level	This location aligns with the baseline water quality summary and is known to be frequented by hard hooved animals.
15/03/2026 13:07	EPL31	Kellys Plain Creek, upstream of accommodation camp and laydown areas	17.09	99.1	9.56	31	20	6.68	199	3.8	Clear day, no recent rain, signs of hard hooved animal activity near sample point	All parameters are within WQO's.
18/03/2026 11:40	EPL33	Murrumbidgee River, downstream of Tantangara reservoir outlet	18.14	82.9	7.82	32	21	9.32	134	42.1	Partially cloudy, no rain, high flow, green colour water, no odour, water discharging, foam observed near the discharge	Low DO and high pH levels have been linked to a non-project related algal bloom.
18/03/2026 12:26	EPL34	Nungar Creek, upstream of Tantangara Road	18.09	70.3	6.64	46	30	8.49	170	3.9	Cloudy day, no rain, low water level, low flow, no odour.	This sample point is upstream of project works and is therefore representative of background conditions.
18/03/2026 12:34	EPL35	Nungar Creek, downstream of Tantangara Road	18	64.7	6.12	39.0	25	8.24	175	0.7	Cloudy day, low flow, low water level, no odour.	This location is comparative to the upgradient sample point.
21/03/2026 8:50	EPL 36	Camerons Creek, upstream of works in Rock Forest	15.43	56.3	5.62	31	20	6.91	136	7.0	Partially cloudy day, no rain, no odour, low water level, no flow, turbidity measured with Hach meter.	This sample point is upstream of construction activities and is therefore representative of background conditions.
21/03/2026 8:18	EPL 37	Camerons Creek, downstream of works in Rock Forest	15.48	71.5	7.13	98	64	8.38	125	17.1	Clear day, no rain, low water level and flow, farm animals around, therefore animal organic matter in the watercourse. QAs collected in this locations.	Low DO% is considered to be representative of the upgradient location. Elevated pH is within the baseline water quality summary results in the surface water management plan.
3/03/2026 13:38	EPL52	GF01 leachate basin	22.21	92.3	6.28	1,020	656	8.56	177	84.2	Overcast day. Recent rain event >50mm. Water greeny colour.	This is leachate storage infrastructure.
30/03/2026 14:40	EPL55	GF01 surface water downstream	18.75	61	5.66	1,340	857	6.98	263	13.8	Water is clean and no odour, Fast flowing water, No rainfall in last 24 hrs	DO% recorded is within the range of previous sampling periods. High EC is consistent with ephemeral nature of this site and previously observed results.
-	EPL67	Nungar Creek downstream west	-	-	-	-	-	-	-	-	-	Due to low water levels within the Tantangara Reservoir, this location has been consolidated with EPL39.
20/03/2026 12:26	EPL71	Surface water downstream of Marica emplacement	-	-	-	-	-	-	-	-	Dry creek	No sample taken due to low water levels.
2/03/2026 11:43	EPL84	F8 Basin	19.33	52.5	4.83	691	442	8	92	1,000	Highly turbid >1000NTU, recent rain approx 30mm, no odours, QAs collected here	This is leachate storage infrastructure.
2/03/2026 13:24	EPL85	MY07 Basin	20.14	118.1	10.69	794	508	9.46	109	1,000.00	High turbidity >1000ntu, no odours, algae visible on surface, ducks present, recent moderate rainfall	This is leachate storage infrastructure.
2/03/2026 13:34	EPL86	LHG01 Basin	20.53	147.1	13.21	721	461	9.42	110	92.6	Slightly turbid, no odours, recent moderate rainfall, basin low level	This is leachate storage infrastructure.
3/03/2026 13:42	EPL98	Rock blanket diversion monitoring under GFO1 liner	18.2	49.9	4.68	1,570	1.01	6.05	281	1.59	Overcast day. Recent rain event >50mm. Flow from 4 of 6 pipes. Water running clear. Turb measured with Hach meter.	This is leachate storage infrastructure.
20/03/2026 13:07	EPL99	Marica Leachate Basin- Turkey's Nest	19.95	74.6	6.79	300	196	9.98	112	82.3	Partially cloudy day, no rain, turquoise water colour, no odour	This is leachate storage infrastructure.
20/03/2026 12:44	EPL100	Marica Lower Leachate Basin USS Shaft	20.1	93.8	8.49	589	377	8.41	186	168	Partially cloudy day, no rain, no odour, green/brown water colour	This is leachate storage infrastructure.
20/03/2026 12:57	EPL101	Marica Leachate Basin Spoil Pad	-	-	-	-	-	-	-	-	Very low water level, no representative to be sample	No sample taken due to low water levels.
27/03/2026 10:18	EPL106	Ravine Bay Leachate basin 1	17.45	83.4	7.93	232.00	148	7.83	10	173	Recent rain e ent >30mm. Raining at time of sample collection.	This is leachate storage infrastructure.



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EPL Monthly Monitoring March 2026

27/03/2026 11:10	EPL110	Upstream monitoring of Ravine Bay emplacement area	-	-	-	-	-	-	-	-	Sample location dry	No sample taken due to low water levels.
20/03/2026 10:09	EPL118	Ravine Bay Leachate basin 2	21.62	80.9	7.07	2240	1430	9.11	185	7	Green colour, no odour, clear, sunny conditions, no sheen or algae	This is leachate storage infrastructure.
13/03/2026 13:35	EPL119	Ravine Bay Leachate basin 3	22.82	68.7	5.88	2010	1,280	8.64	172	1.8	QA_LOB_1 sample taken here. Sunny day, no rain in the past week. Water is clear, slight green tinge. No odour, no sheen.	This is leachate storage infrastructure.
20/03/2026 9:55	EPL120	Ravine Bay Leachate basin 4	-	-	-	-	-	-	-	-	Unable to sample as level too low to reach with equipment available	No sample taken due to low water levels.
3/03/2026 9:46	EPL122	GFO1 Drainage Line (Formerly EPL 55b)	18.19	51.9	4.88	761	487	7.77	200	135	Overcast day. Recent rain event >50mm.	GFO1 basin was overtopping at time of sampling.

Table 2 - Reservoir Water Quality Data
Talbingo and Tantangara Reservoirs

Water Quality Objectives (see note 2)							
Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)
-	90 - 110	-	20 - 30	-	6.5 - 8.0	-	1 - 20

Date and Time	EPL Site ID	Location Description	Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)	Field Comments	Context
1/03/2026 10:08	EPL10	Talbingo Reservoir, upstream of water intake point and diffuser outlet.	23.17	82.5	7.05	86	56	7.62	200	1.1	Clear water, not turbid, cloudy conditions, no sheen or odour, no algae present	This is an upgradient location and considered background.
1/03/2026 9:54	EPL11	Talbingo Reservoir, downstream of outlet	22.99	83.3	7.14	61	40	7.7	198	4.6	No odour or sheen, cloudy conditions, clear water, 50 m upstream of buoy, no algae present	High EC and low DO% are representative of the upgradient location.
18/03/2026 8:22	EPL28	Tantangara Reservoir, upstream of works in the mouth of the Murrumbidgee River	16.71	94.3	9.17	34	22	9.81	111	43.2	Cloudy day, rain the day before, no rain at the time of sampling, low water level, 1.4m water depth, no odour, organic matter on the water surface.	This is an upgradient location and concentrations are considered to be representative of background conditions. High pH levels have been linked to a non-project related algal bloom.
18/03/2026 9:18	EPL29	Tantangara Reservoir, downstream of works area and upstream of lower Murrumbidgee River	17.81	92.5	8.79	32	21	9.57	134	58.2	Cloudy day, rain the day before 1.6mm, no rain at the time of sampling, low water level, 12.5m water depth, no odour	Concentrations are comparable to the upstream location.
18/03/2026 9:05	EPL32	Tantangara Reservoir, Tantangara Intake. Downstream of construction works	17.7	72.1	6.87	32	21	9.6	131	45.4	Cloudy day, rain overnight, no rain at the time of sampling, low water level, 11.8m water depth no odour, QAs were collected in this location.	Low DO% and slightly high EC falls within concentrations found during historic sampling rounds. High pH has been linked to a non-project related algal bloom that was also observed during March 2025 sampling rounds.
18/03/2026 9:00	EPL38	Tantangara Reservoir, variable location dependant on tide and reservoir levels. Between the emplacement area and the ancillary facilities for emplacement activities	17.6	86.5	8.25	32	21	9.63	133	50.0	Cloudy day, rain the day before, no rain at the time of sampling	Low DO% and slightly high EC falls within concentrations found during historic sampling rounds. High pH has been linked to a non-project related algal bloom that was also noted during March 2025 sampling rounds.
15/03/2026 12:02	EPL39	Confluence of Nungar Creek and Tantangara Reservoir, variable location dependent on tide and reservoir levels. Upstream of Tantangara construction works	16.79	93.8	9.1	29	19	6.27	215	5.8	Clear day, no recent rain, medium flow, level low	All concentrations are within WQO's.
18/03/2026 8:43	EPL40	Confluence of the upper Murrumbidgee River and Tantangara Reservoir, variable location dependent on tide and reservoir levels. Upstream of works	16.85	95	9.21	34	22	9.94	113	48.3	Cloudy day, rain the day before, low water level, 1.4m water depth, organic matter on the wayer surface, no odour.	This sampling location is upstream of construction activities and considered background. High pH levels have been linked to a non project related algal bloom.
18/03/2026 9:24	EPL 51	Tantangara Reservoir, downstream of Tantangara STP/PWTP diffuser outlet	17.68	83.5	7.96	35	22	9.61	132	39.4	Cloudy day, rain day before, no rain at the time of sampling, 12.1m water depth, low water level, no odour.	Concentrations are comparable to upgradient locations. High pH concentrations are linked to a non-project related algal bloom.
18/03/2026 9:22	EPL107	Upstream monitoring of Ravine Bay emplacement area within Yarrangobilly River	21.05	99.7	8.88	41	26	7.9	223	8.3	Clear, no odour or sheen, no algae present, green colour	This is an upstream location and high EC is considered naturally occurring.
1/03/2026 8:57	EPL108	Monitoring of Ravine Bay emplacement area (centre of PSE) within Yarrangobilly River	22.69	99.4	8.57	34	22	7.58	186	16.9	Water clear, no sheen or odour, a few bubbles on surface, no debris, sunny and cloudy conditions	This location is comparable to the upgradient location.
1/03/2026 8:49	EPL109	Upstream monitoring of Ravine Bay emplacement area within Yarrangobilly River	22.62	94.2	8.14	36	24	7.55	184	21.9	Cloudy day, no sheen or odour, not turbid, water clear, QA_TAL_1 taken here	Sample point has similar concentrations to the upstream location.

Table 3 - Treated Water Quality Data
Talbingo

Water Quality Objectives (see note 3)							
Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)
-	-	-	700	-	6.5 - 8.5	-	<25

Date and Time	EPL Site ID	Location Description	Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)	Field Comments	Context
4/03/2026 8:48	EPL41	Lobs Hole STP/PWTP Final Effluent Quality Monitoring Point. Downstream of final treatment, prior to discharge to Talbingo Reservoir.	22.58	63.2	5.47	6	4	7.98	189	7.6	rain over night, no smell, clear water, currently discharging	All readings are within WQO limits.

Table 4 - Treated Water Quality Data
Tantangara

Water Quality Objectives (see note 3)							
Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)
-	-	-	168	-	6.5 - 8.5	-	<25

Date and Time	EPL Site ID	Location Description	Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)	Field Comments	Context
15/03/2026 9:44	EPL50	Tantangara STP/PWTP Final Effluent Quality Monitoring Point. Downstream of final treatment, prior to discharge to Tantangara Reservoir.	11.05	54.7	6.03	108	70	7.02	206	2.7	Clear day. No recent rain. Sample area clean and tidy. Qa's taken here.	All readings are within WQO limits.



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Table 5 - Groundwater Quality Data
GF01 Surface Water and Groundwater

Water Quality Objectives (see note 1)							
Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)
-	90 - 110	-	30 - 350	-	6.5 - 8.0	-	2 -25

Date and Time	EPL Site ID	Location Description	Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)	Field Comments	Context
3/03/2026 12:26	EPL56	GF01 groundwater upstream east	17.97	20.6	1.95	252	164	7.46	201	13.3	Overcast day. Recent rain event >50mm.	This is an upstream location and low DO% is considered background in alpine groundwater aquifers. All other concentrations are within WQO limits.
3/03/2026 12:43	EPL57	GF01 groundwater upstream west	17.04	18.3	1.76	271	176	7.9	187	69	Overcast day. Recent rain event >50mm.	This is upstream location has been encroached by project works and is in the process of being decommissioned.
3/03/2026 13:10	EPL58	GF01 groundwater downstream	18.9	35	3.25	694	444	5.82	283	45.6	Overcast day. Recent rain event >50mm.	Low pH, DO% and high EC have been consistently reported at this location and considered background.
21/03/2026 11:31	EPL68	Tantangara groundwater downstream West	16.3	72.1	7.06	29.2	9.59	5.28	231.2	23	No visible sediment. No rain while sampling, though overcast. Algae observed initially, settling to clear water after 20 seconds.	This location has regularly returned low DO% and pH concentrations below WQO's and is considered ambient.
28/03/2026 10:34	EPL69	Tantangara groundwater downstream East	11.04	47.8	5.26	58	38	5.88	329	95.8	Clear day. Recent rain event >50mm. Water clear.	Low pH and DO% are considered background at this location.
28/03/2026 9:40	EPL70	Tantangara groundwater upstream	11.75	64.2	6.96	143	93	6.78	291	89.5	Clear day. Recent rain event >50mm. Water yellowy colour.	Sample point is located upgradient of any project related works and considered background.
20/03/2026 11:23	EPL 72	Marica groundwater upstream	13.54	103.8	10.8	78	51	8.2	167	62.9	Cloudy day, no rain, clear water, no odour, water pooling near the bore	This is an upstream location and not affected by construction works.
2/03/2026 14:13	EPL80	LHG groundwater upstream	17.25	22.5	2.16	929	595	6.78	99	129	Slightly turbid, no odours, orange/red particulates in water column	Low DO% and High EC are consistently returned at this sample point. Turbidity is also within the historic results.
2/03/2026 10:40	EPL81	LHG groundwater downstream	15.47	6.5	0.65	681	436	6.87	-5	181	Slightly turbid, no odours	Elevated EC and low DO% are consistently returned at this sample point. Turbidity is also within the concentrations of previously returned results.
2/03/2026 11:14	EPL82	MY groundwater upstream	17.21	16.4	1.56	2,910	1,860	6.66	9	99.1	Low turbidity, sulphurous odour detected, SWL is approximate due to difficulty obtaining reading with dip potentially from elevated EC	Elevated EC and low DO% are consistent with March 2025 concentrations. Turbidity is elevated from the previous month this however has remained within historic concentrations. Sample has been collected with a passive catch sleeve.
2/03/2026 10:10	EPL83	MY groundwater downstream	16.39	10.4	1.02	554	354	6.56	59	10.6	High clarity, sulphurous odour detected,	Low DO, high EC and neutral to alkaline pH combined with sulphuric odours are indicators of reducing groundwater and considered naturally occurring.
2/03/2026 11:35	EPL87	MY groundwater downstream	16.02	10.7	1.05	951	609	6.63	126	122	Slightly turbid, no odours	Low DO% and high EC have been consistently reported at this location and considered background.
2/03/2026 10:22	EPL88	MY groundwater downstream	17.16	22.2	2.13	950	608	6.71	-11	0.6	High clarity, strong sulphurous odour	High EC and low DO% have been consistently reported at this location and considered ambient.
2/03/2026 13:53	EPL89	LHG groundwater downstream	17.49	26.6	2.54	424	276	6.99	189	131	Slightly turbid, no odours	This location has regularly returned high EC and low DO% concentrations below WQO's and is considered ambient.
3/03/2026 10:29	EPL 90	GF01 groundwater downstream	16.71	21.6	2.1	61	40	5.99	257	1.37	Overcast day. Recent rain event >50mm. QA's taken here. Water extracted using electric bore pump. Turb measured with Hach meter.	DO% has similar concentrations as March 2025, whilst pH is slightly below WQO's it has remained steady.
3/03/2026 10:08	EPL 91	GF01 groundwater downstream	17.3	16.9	1.62	247	161	6.8	221	16.1	Overcast day. Recent rain event >50mm.	DO% has similar concentrations as March 2025 and considered ambient.
16/03/2026 13:11	EPL 92	GF01 groundwater downstream	16.78	63.9	6.2	120	78	6.59	289	219	Cloudy day, not recent rain.	Low DO% aligns with March 2025 and considered ambient.
30/03/2026 12:38	EPL 93	GF01 groundwater downstream	16.59	12.8	1.25	248	161	7.1	219	647	Water sample light brown in colour No odour	Concentrations of DO% are consistent with March 2025 and considered ambient.
16/03/2026 13:36	EPL 94	GF01 groundwater downstream	16.22	19.3	1.9	178	116	6.86	179	82.9	Cloudy day, no recent rain	DO% is following a similar trend as this time last year. Turbidity is rising slightly, however remains within historic concentrations. Sample is taken using passive catch sleeve.
3/03/2026 13:02	EPL 95	GF01 groundwater downstream	17.53	51.4	4.9	890	570	6.11	269	91.7	Overcast day. Recent rain event >50mm. Water extracted using electric bore pump.	Low pH and DO% combined with high EC has been consistently reported at this location and considered background.
3/03/2026 13:18	EPL 96	GF01 groundwater downstream	17.65	57.9	5.5	900	576	6.88	244	1,000	Overcast day. Recent rain event >50mm. Surrounding area shows signs of holding water at bore entrance. Water orange colour.	EPL96 has been encroached by project works and is in the process of being decommissioned.
3/03/2026 14:05	EPL 97	GF01 groundwater downstream Yarrangobilly	17.09	12.4	1.19	498	324	6.48	239	60.2	Overcast day. Recent rain event >50mm.	Low pH and DO% concentrations are report at this location regularly and considered ambient.
1/03/2026 16:14	EPL103	Upstream groundwater monitoring west of the Tantangara emplacement area	12.6	53.1	5.64	40.2	34	4.81	218.9	13.47	Early morning sample. Clear water. Upstream of TSE. Clear sample, small amount of sediment in bottom.	This is an upstream location and not affected by construction works.
21/03/2026 14:39	EPL104	Downslope groundwater monitoring east of the Tantangara emplacement area	16.6	58.7	5.73	1.2	1	5.65	190.1	8	Clear water, no sediment visible in sample. Following thunderstorms, rain and hail.	Low DO% and pH are reported on a regular basis and is considered background at this location.
21/03/2026 11:48	EPL105	Downslope groundwater monitoring west of the Tantangara emplacement area	14.8	49	4.97	194.4	157	5.23	228.8	2.99	No sediment. Rain during sampling	Low DO% and pH are reported on a regular basis and is considered background.



EPL 21266 In Situ Water Quality Measurements

EPL Monthly Monitoring March 2026

7/03/2026 11:35	EPL113	Upstream east monitoring of Ravine Bay emplacement area	19.33	31.5	2.9	129	84	6.14	228	91.9	Clear sunny day. Recent rain event last week. Water is slightly turbid. No odour. No sheen	This is an upgradient location and considered ambient.
7/03/2026 12:03	EPL114	Upstream west monitoring of Ravine Bay emplacement area	21.43	99.8	8.81	381	248	7.14	206	8.6	Clear sunny day. Recent rain event last week. Ongoing liner extension works. Water is clear, no odour.	This is an upgradient location and considered ambient.
7/03/2026 12:51	EPL115	Downstream east monitoring of Ravine Bay emplacement area	21.37	43.5	3.84	408	265	7.67	184	31.2	Clear sunny day. Recent rain event last week. Water is clear, no odour.	Low DO% and high EC are reported on a regular basis and is considered background at this location.
7/03/2026 11:09	EPL116	Downstream west monitoring of Ravine Bay emplacement area	19.4	59.9	5.51	146	95	6.7	180	617	Clear sunny day. Recent rain event last week. Sleeve had to be double dipped for water. Water is turbid, sediment settling at bottom of sleeve. No odour.	Low DO% is reported on a regular basis and is considered background at this location.
7/03/2026 10:45	EPL117	Downstream monitoring of Ravine Bay emplacement area	19.46	18.9	1.74	161	104	6.73	18	38.1	Clear sunny day. Recent rain event last week. Water is clear. Slight sedimentation at the bottom of the sleeve. No odour, no sheen.	Background trends suggest low DO% is ambient at this location.

Note 1: Water Quality Objective values for the Yarrangobilly River and Minor Watercourses refer to the default trigger values for physical and chemical stressors in south-east Australia (upland rivers) that are reported in Tables 3.3.2 and 3.3.3 of ANZECC/ ARMCANZ (2000).

Note 2: Water Quality Objective values for Talbingo Reservoir are the default trigger values for physical and chemical stressors in south-east Australia (freshwater lakes and reservoirs) that are reported in Tables 3.3.2 and 3.3.3 of ANZECC/ ARMCANZ (2000).

Note 3: Water Quality Objective values Treated Water reference the predicted values for physical and chemical stressors from the treatment plant as presented in the Main Works EIS.

Note 4: Water Quality Objective values for groundwater reference the default trigger values for physical and chemical stressors in south-east Australia (upland rivers) for pH and electrical conductivity.



Snowy 2.0 Environmental Protection License Water Quality Results



Monitoring Period	1 - 30 April 2026
Environmental Protection Licence No:	21266
Licensee:	Snowy Hydro Limited
Licensee address:	PO Box 332, Cooma, NSW 2630
Premises:	Snowy 2.0 Pumped Hydro Power Station Talbingo and Tantangara, Kosciuszko National Park and Rock Forest, Kosciuszko NSW 2642

SUMMARY	
Groundwater Water Quality Results:	EPL1 and EPL2 are sampled on a quarterly basis and were therefore not included in the April monitoring period. EPL4 and EPL25 are also sampled quarterly. These locations were inspected during the April monitoring event, however both sample points were under water and therefore not considered representative for sampling.
Reservoir Water Quality Results:	Faecal coliform concentrations at both reservoirs have decreased compared to previous months, consistent with seasonal influences and the expected decline associated with lower water temperatures. No exceedances of metal concentrations were recorded at any of the Tantangara or Talbingo reservoir monitoring points. Nutrient concentrations at Talbingo Reservoir were generally within WQOs, with the exception of total phosphorus at EPL10, which recorded a concentration of 20 µg/L. In contrast, nutrient concentrations in Tantangara Reservoir, particularly total nitrogen (TN), exceeded WQOs across multiple sites (EPL28, EPL29, EPL32, EPL38, EPL40, and EPL51), with concentrations reaching up to 900 µg/L at EPL29, EPL32, and EPL38. These elevated TN levels were primarily comprised of Total Kjeldahl Nitrogen, and a noticeable reduction in concentrations was observed compared to the March monitoring period. Similarly, Tantangara pH values have returned to within WQO limits, confirming that the elevated pH levels recorded in March were likely associated with the natural seasonal variability of the reservoir.
Surface Water Quality Results:	Surface water concentrations were notably varied between the numerous Monitoring Zones throughout the reporting period. The Yarrangobilly Monitoring Zone was noted to comprise elevated Phosphorous concentrations within the above gradient location before increasing at EPL15 (80 µg/ L) before reducing to 30 µg/ L within EPL 9 further downstream. EPL24 was noted to report elevated concentrations of nutrient compounds reflective of the downgradient influences stemming from GF01 emplacement. EPL33 was notably elevated for dissolved Aluminium (38 µg/ L) to which the location is subject to review. Marica TSE Monitoring Zone reported elevated concentrations of nutrients within EPL71, most notably TN concentrations of 7,000 µg/ L. A subsequent review of the location found that the stagnant water and extremely low location volume contributed to the disturbance of sediments within the sample column. The Water Sampling Procedure will be updated to reflect the lesson learning as a result.
Discharge Water Quality Results:	Discharge concentrations were within the EPL 90 percentile limits.

[illegible]



Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01 - 30 April 2026 - Talbingo and Tantangara Reservoir

Analyte	Unit	Limit of Reporting	Water Quality Objectives
Field			
pH	pH Unit	-	6.5-8
Electrical Conductivity	µS/cm	-	20-30
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value
Temperature	°C	-	No Water Quality Objective Value
Dissolved Oxygen	% saturation	-	90-110
Turbidity	NTU	-	1-20
Laboratory analytes			
Total suspended solids	mg/L	5	No Water Quality Objective Value
Hardness as CaCO ₃	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	µg/L	10	10
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value
Nitrate (as N)	µg/L	10	No Water Quality Objective Value
Nitrite (as N)	µg/L	10	No Water Quality Objective Value
Nitrogen (Total)	µg/L	100	350
Reactive Phosphorus	µg/L	10	5
Phosphorus (Total)	µg/L	10	10
Inorganics			
Cyanide Total	µg/L	4	7
Hydrocarbons			
Oil and Grease	mg/L	1	No Water Quality Objective Value
Metals			
Aluminium (total)	µg/L	5	No Water Quality Objective Value
Aluminium (dissolved)	µg/L	5	55
Arsenic (dissolved)	µg/L	0.2	13
Calcium (dissolved)	µg/L	1000	No Water Quality Objective Value
Chromium (III+VI) (total)	µg/L	0.2	No Water Quality Objective Value
Chromium (III+VI) (dissolved)	µg/L	0.2	0.01
Copper (dissolved)	µg/L	0.5	1.4
Iron (total)	µg/L	2	No Water Quality Objective Value
Iron (dissolved)	µg/L	2	300
Lead (dissolved)	µg/L	0.1	3.4
Magnesium (dissolved)	µg/L	1000	No Water Quality Objective Value
Manganese (total)	µg/L	0.5	No Water Quality Objective Value
Manganese (dissolved)	µg/L	0.5	1,900
Nickel (dissolved)	µg/L	0.5	11
Zinc (dissolved)	µg/L	1	8
Biological			
Biochemical Oxygen Demand	mg/L	2	No Water Quality Objective Value
Chlorophyll a	µg/L	1	No Water Quality Objective Value
Faecal Coliforms	CFU/100mL	1	No Water Quality Objective Value
Organic			
Dissolved Organic Carbon	mg/L	1	No Water Quality Objective Value

EPL10	EPL11	EPL28	EPL29	EPL32	EPL38	EPL39	EPL40	EPL51	EPL107	EPL108	EPL109
15/04/2026	15/04/2026	29/04/2026	29/04/2026	29/04/2026	29/04/2026	25/04/2026	29/04/2026	29/04/2026	15/04/2026	15/04/2026	15/04/2026
7.51	7.67	7.56	7.6	7.44	7.71	6.31	7.43	7.66	7.63	7.77	7.88
56	56	29	27	28	31	25	29	31	43	36	37
161	152	199	204	208	170	182	208	204	146	136	117
18.28	18.58	9.55	11.65	11.63	10.58	13.53	9.71	11.44	17.91	18.01	17.87
92.7	93.2	80.1	83.5	78.9	73.4	77.1	83.8	78.2	86	90	88.6
1.6	2.1	9.9	3.9	2.5	50.3	2.04	7.5	3.3	1.6	0.9	0.1
<5	<5	8	<5	<5	<5	<5	9	<5	<5	<5	<5
26	26	9	9	9	9	7	9	9	17	14	14
<10	<10	90	250	260	230	<10	110	290	10	<10	<10
300	200	400	900	800	900	<100	500	800	200	200	200
10	20	20	30	60	40	40	20	40	20	<10	<10
<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
300	200	400	900	900	900	<100	500	800	200	200	200
<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
20	<10	90	40	70	50	<10	60	50	<10	<10	<10
<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
41	57	273	93	113	106	153	306	92	43	39	32
5	6	29	46	45	45	13	31	46	<5	<5	<5
0.4	0.4	0.3	0.4	0.4	0.4	<0.2	0.3	0.4	0.3	0.3	0.3
7,000	7,000	2,000	2,000	2,000	2,000	1,000	2,000	2,000	5,000	4,000	4,000
<0.2	<0.2	0.4	<0.2	<0.2	<0.2	0.3	0.4	<0.2	<0.2	<0.2	<0.2
<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
68	98	592	315	350	316	174	656	318	55	37	38
21	16	245	185	180	186	68	257	183	15	11	11
<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,000	2,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
5.4	5.5	71.2	39.4	41.9	39.5	3.3	75.2	40.4	5.0	3.5	3.6
1.2	<0.5	55.5	2.6	4.4	7.5	1.2	55.8	2.6	0.5	<0.5	<0.5
<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
<1	1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1
<2	2	4						2			
3	1	4	11	15	16	<1	5	18	<1	<1	<1
21	22	10						<1			
2	2	3	4	4	4	2	4	4	3	2	2

Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01 - 30 April 2026 - Surface Water

Analyte	Unit	Limit of Reporting	Water Quality Objectives	EP15	EP16	EP17	EP18	EP19	EP20	EP21	EP22	EP23	EP24	EP25	EP26	EP27	EP28	EP29	EP30	EP31	EP32	EP33	EP34	EP35	EP36	EP37	EP38	EP39	EP40	EP41	EP42	EP43	EP44	EP45	EP46	EP47	EP48	EP49	EP50	EP51	EP52	EP53	EP54	EP55	EP56	EP57	EP58	EP59	EP60	EP61	EP62	EP63	EP64	EP65	EP66	EP67	EP68	EP69	EP70	EP71	EP72	EP73	EP74	EP75	EP76	EP77	EP78	EP79	EP80	EP81	EP82	EP83	EP84	EP85	EP86	EP87	EP88	EP89	EP90	EP91	EP92	EP93	EP94	EP95	EP96	EP97	EP98	EP99	EP100	EP101	EP102	EP103	EP104	EP105	EP106	EP107	EP108	EP109	EP110	EP111	EP112	EP113	EP114	EP115	EP116	EP117	EP118	EP119	EP120	EP121	EP122																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
Field				25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/20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Snowy Hydro 2.0 Main Works

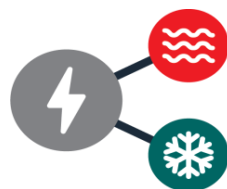
Monthly EPL Sampling: 01 - 30 April 2026 - Discharge Water



Analyte	Unit	Limit of Reporting	Water Quality Objectives / EPL Discharge Limits*	EPL 41 12/04/2026	EPL 50 12/04/2026
Field					
pH	pH Unit	-	6.5-8.5	6.77	6.87
Electrical Conductivity	µS/cm	-	700 (EPL 41) / 200 (EPL 50)	7	116
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	235	138
Temperature	°C	-	No Water Quality Objective Value	17.16	10.26
Dissolved Oxygen	% saturation	-	No Water Quality Objective Value	100.7	87.3
Turbidity	NTU	-	1-20	19.4	5.4
Laboratory analytes					
Total suspended solids	mg/L	5	5*/10**	<5	<5
Hardness as CaCO ₃	mg/L	1	No Water Quality Objective Value	<1	<1
Nutrients					
Ammonia as N	mg/L	0.01	1*/2**	0.01	0.07
Kjeldahl Nitrogen Total	mg/L	0.1	No Water Quality Objective Value	0.10	0.20
Nitrate (as N)	mg/L	0.01	No Water Quality Objective Value	0.19	0.86
Nitrite (as N)	mg/L	0.01	No Water Quality Objective Value	<0.01	<0.01
Nitrogen (Total)	mg/L	0.1	1.5*/3**	0.3	1.1
Reactive Phosphorus	mg/L	0.01	No Water Quality Objective Value	<0.01	<0.01
Phosphorus (Total)	mg/L	0.01	0.3*/0.5**	<0.01	0.01
Inorganics					
Cyanide Total	µg/L	4	No Water Quality Objective Value	<4	<4
Hydrocarbons					
Oil and Grease	mg/L	1	2*/5**	<1.0	<1.0
Metals					
Aluminium (total)	µg/L	5	No Water Quality Objective Value	<5	<5
Aluminium (dissolved)	µg/L	5	No Water Quality Objective Value	<5	<5
Arsenic (dissolved)	µg/L	0.2	No Water Quality Objective Value	<0.2	0.4
Calcium (total)	µg/L	1000	No Water Quality Objective Value	<1,000	<1,000
Calcium (dissolved)	µg/L	1000	No Water Quality Objective Value	<1,000	<1,000
Chromium (III+VI) (total)	µg/L	0.2	No Water Quality Objective Value	<0.2	1.8
Chromium (III+VI) (dissolved)	µg/L	0.2	No Water Quality Objective Value	<0.2	1.7
Copper (dissolved)	µg/L	0.5	No Water Quality Objective Value	<0.5	<0.5
Iron (total)	µg/L	2	No Water Quality Objective Value	<2	4
Iron (dissolved)	µg/L	2	No Water Quality Objective Value	<2	<2
Lead (dissolved)	µg/L	0.1	No Water Quality Objective Value	<0.1	<0.1
Magnesium (total)	µg/L	1000	No Water Quality Objective Value	<1,000	<1,000
Magnesium (dissolved)	µg/L	1000	No Water Quality Objective Value	<1,000	<1,000
Manganese (total)	µg/L	0.5	No Water Quality Objective Value	<0.5	<0.5
Manganese (dissolved)	µg/L	0.5	No Water Quality Objective Value	<0.5	<0.5
Nickel (dissolved)	µg/L	0.5	No Water Quality Objective Value	<0.5	<0.5
Zinc (dissolved)	µg/L	1	No Water Quality Objective Value	<1	<1
Biological					
Biological Oxygen Demand	mg/L	2	3.5*/5**	<2	<2
Chlorophyll a	µg/L	1	No Water Quality Objective Value	<1	<1
Faecal Coliforms	CFU/100mL	1	10*/100**	<1	<1
Organic					
Dissolved Organic Carbon	mg/L	1	No Water Quality Objective Value	<1	<1

* EPL Discharge Limits, 90 Percentile Concentration Limit as per EPL 21266

** EPL Discharge Limits, 100 Percentile Concentration Limits as per EPL 21266



Future Generation
Webuild • Clough • Lane

Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01 - 30 April 2026 - Discharge
Volumes

	EPL 43	EPL 50
Date	Discharge volume (Megalitres)	
1/04/2026	0.16	0.41
2/04/2026	-	0.51
3/04/2026	0.69	-
4/04/2026	-	0.44
5/04/2026	0.44	0.44
6/04/2026	-	0.49
7/04/2026	0.32	0.45
8/04/2026	-	0.22
9/04/2026	0.61	0.22
10/04/2026	0.58	0.58
11/04/2026	0.73	0.46
12/04/2026	-	0.36
13/04/2026	0.58	0.45
14/04/2026	0.44	0.31
15/04/2026	-	-
16/04/2026	0.40	0.36
17/04/2026	0.45	0.26
18/04/2026	0.59	0.18
19/04/2026	0.61	0.40
20/04/2026	-	0.37
21/04/2026	-	-
22/04/2026	0.48	0.54
23/04/2026	-	0.08
24/04/2026	-	-
25/04/2026	0.38	0.26
26/04/2026	-	0.57
27/04/2026	0.37	-
28/04/2026	-	0.31
29/04/2026	0.51	0.38
30/04/2026	-	0.40



EPL 21266 In Situ Water Quality Measurements

Table 1 - Surface Water Quality Data
River and Minor Watercourses

EPL Monthly In-Situ Monitoring April 2026

Water Quality Objectives							
Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)
-	90 - 110	-	30 - 350	-	6.5 - 8.0	-	2 - 25

Date and Time	EPL Site ID	Location Description	Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)	Field Comments	Context
25/04/2026 9:40	EPL5	Yarrangobilly River, upstream of the exploratory tunnel and construction pad	8.09	97.5	11.52	137	89	7.77	95	0.9	Sunny day, clear water, no odour, medium flow	This is an upgradient location and not impacted by project activities.
25/04/2026 10:07	EPL6	Wallaces Creek, upstream of Yarrangobilly River and Wallaces Creek confluence	6.62	89.4	10.95	89	58	7.98	109	0.5	Sunny day, clear water, no odour, slow and low flow, no rain	Turbidity is representative of the upgradient location. Low DO% is within the baseline water quality summary in the surface water management plan.
25/04/2026 11:06	EPL8	Yarrangobilly River, downstream of Lick Hole Gully	9.33	104.1	11.93	147	95	7.96	134	0.9	Sunny day, clear water, medium flow, no odour	Turbidity is representative of the upgradient location.
25/04/2026 11:26	EPL9	Yarrangobilly River, downstream of the accommodation camp and upstream of Talbingo Reservoir	9.26	101.7	11.68	148	96	8.06	135	0.79	Sunny day, clear water, medium flow, no odour, no rain	Turbidity is representative of the upgradient location. Slightly elevated pH is within the baseline water quality summary in the surface water management plan.
25/04/2026 9:21	EPL12	Yarrangobilly River, immediately downstream of portal pad	8.15	108.3	12.77	178	116	7.9	85	2.5	Sunny day, no rain, clear water, no odor, medium flow, sediment basin F1 overtopping	All parameters fall within the WQO's.
25/04/2026 10:27	EPL14	Yarrangobilly River, downstream of road construction areas	9.14	107.8	12.42	139	90	8.12	110	0.96	Sunny day, clear water, medium flow, a bit turbulent, no odour	Slightly elevated pH is within the baseline water quality summary in the surface water management plan. Turbidity is representative of the upgradient location.
25/04/2026 10:48	EPL15	Yarrangobilly River, downstream of road construction areas	9.25	92.4	10.61	143	93	8.13	122	0.8	Sunny day, clear water, medium flow, no odour, no rain	Elevated pH is within the baseline water quality summary in the surface water management plan. Turbidity is representative of the upstream location.
25/04/2026 11:48	EPL16	Yarrangobilly River, downstream of road construction areas	9.54	109.1	12.44	147	96	8.07	137	0.73	Sunny day, clear water, a bit turbulent, no odour. QAs conducted here	The pH in this location is within the baseline water quality summary in the surface water management plan.
14/04/2026 8:49	EPL24	Yarrangobilly River tributary (Watercourse 2), directly downstream of road	12.48	80.4	8.55	653	418	6.73	213	12.7	Sunny day, rain over last few days, clear water, no odour	DO levels are decreasing while EC is increasing. This was noted last month and continued monitoring will be ongoing.
11/04/2026 13:47	EPL26	Eucumbene River downstream of Marica Road	11.04	92.8	10.21	36	24	7.4	166	0.9	Sunny day, clear water, no odour, slow flow	Marginally lower DO is consistent with previously recorded data such as Arpil 2025. Turbidity requested from ALS.
11/04/2026 13:26	EPL27	Eucumbene River upstream of Marica Road	10.79	85.1	9.43	51	33	7.89	143	15.8	Sunny day, clear water, no odour	This location is upgradient of project activities.
12/04/2026 9:14	EPL30	Kellys Plain Creek, downstream of accommodation camp and laydown areas	6.81	75.6	9.22	55	36	6.82	137	15.1	Cloudy day, slightly rain, slow flow, no odour, clear water	Marginally lower DO is consistent with lower flow streams as referred to in the field notes.
12/04/2026 10:10	EPL31	Kellys Plain Creek, upstream of accommodation camp and laydown areas	8.08	63.8	7.54	31	20	6.79	160	3.4	Cloudy day, slow flow, medium flow, clear water, no odour	This location is upgradient of project activities.
12/04/2026 8:03	EPL33	Murrumbidgee River, downstream of Tantangara reservoir outlet	11.13	69.8	7.67	36	23	6.63	94	18.6	Cloudy, slightly raining, foam in the surface, no odour	Marginally lower DO is consistent with waters originating from algal hosting waters. Foam is potentially a result of flow velocities or release flow velocities.
12/04/2026 7:17	EPL34	Nungar Creek, upstream of Tantangara Road	2.88	86.9	11.74	27	17	7.04	193	16.8	Cloudy day, slightly raining, clear water, no odour	This location is upgradient of project activities.
12/04/2026 7:29	EPL35	Nungar Creek, downstream of Tantangara Road	5.16	69.7	8.86	25.0	16	6.9	95	9.3	Cloudy day, slightly raining, no odour, clear water, slow flow	Marginally lower EC and DO results are indicative of lower flows and are consistent with ambient concentrations previously recorded.
28/04/2026 11:39	EPL 36	Camerons Creek, upstream of works in Rock Forest	11.16	66.1	7.26	36	23	7.33	159	1.2	Clear day. No recent rain. Water flow and level low. Signs of stock activity around sample point.	This location is upgradient of project activities.



EPL 21266 In Situ Water Quality Measurements

EPL Monthly In-Situ Monitoring April 2026												
28/04/2026 10:55	EPL 37	Camerons Creek, downstream of works in Rock Forest	14.52	68.2	6.94	50	33	7.89	185	2	Clear day. No recent rain. Water flow and level low. Signs of stock around sample point. QA taken here.	Marginally lower EC and DO results are indicative of lower flows and are consistent with ambient concentrations previously recorded.
14/04/2026 14:16	EPL52	GF01 leachate basin	18.99	71.2	6.57	1,540	984	6.85	170	39.8	Sunny day, turbid water, green water appearance, no odour	This location is a leachate water storage basin. Water quality recorded is reflective of leachate captured during the reporting period.
14/04/2026 14:41	EPL55	GF01 surface water downstream	18.89	65.7	6.08	1360	871	7.27	158	2.4	Sunny day, clear water, no odour, slow flow	Turbidity requested to ALS. Elevated EC and lower DO results are consistent with the significantly low volume of water sampled during this reporting period.
-	EPL67	Nungar Creek surface water downstream west from Tantangara emplacement area	-	-	-	-	-	-	-	-	-	No sample collected.
11/04/2026 15:06	EPL71	Surface water downstream of Marica emplacement	11.51	81.8	8.9	381	248	6.97	170	198	Sunny day, rain overnight, turbid water, very slow flow	Elevated physiochemical results are consistent with the significantly low volume of water sampled during this reporting period.
-	EPL76	Rock Forest Leachate basin	-	-	-	-	-	-	-	-	-	No sample collected.
26/04/2026 11:48	EPL84	F8 Basin	18.07	80.6	7.6	482	313	8.85	152	415	No recent rain, moderate capacity, no foam sheen or odour. Sample site is EPL 84	This location is a leachate water storage basin. Water quality recorded is reflective of leachate captured during the reporting period.
25/04/2026 9:56	EPL85	MY07 Basin	11.15	90.4	9.92	467	303	8.61	142	1,000	No recent rain. Very full, turbid brown colour, no foam sheen or odour.	This location is a leachate water storage basin. Water quality recorded is reflective of leachate captured during the reporting period.
26/04/2026 12:19	EPL86	LHG01 Basin	17.25	83.2	7.97	1,010	648	8.53	157	98.5	No recent rain, low water level, turbid water no foam sheen or odour	This location is a leachate water storage basin. Water quality recorded is reflective of leachate captured during the reporting period.
14/04/2026 14:13	EPL98	Rock blanket diversion monitoring under GF01 liner	17.32	62.9	6.01	1,700	1,090	6.12	204	0.3	Sunny day, clear water, algae growing in the sourrounding area, no odour	This location is a leachate water storage basin. Water quality recorded is reflective of leachate captured during the reporting period.
25/04/2026 8:06	EPL99	Marica Leachete Basin- Turkey's Nest	9.8	77.3	8.75	467	304	8.43	102	117	Clear day. No recent rain. Water grey / green colour. No odour or sheen.	This location is a leachate water storage basin. Water quality recorded is reflective of leachate captured during the reporting period.
25/04/2026 8:15	EPL100	Marica Lower Leachate Basin USS Shaft	9.07	68.3	7.86	883	565	8.43	115	30.3	Clear day. No recent rain. Water green colour.	This location is a leachate water storage basin. Water quality recorded is reflective of leachate captured during the reporting period.
25/04/2026 8:33	EPL101	Marica Leachate Basin Spoil Pad	9.11	63.7	7.32	996	638	8.6	112	35.9	Clear day. No recent rain. Water green colour.	This location is a leachate water storage basin. Water quality recorded is reflective of leachate captured during the reporting period.
9/04/2026 12:26	EPL106	Ravine Bay Leachate basin 1	18.93	80.2	7.4	2,450	157	7.88	194	89	Recent light rainfall. Sunny weather. Green/yellow turbid colour. Ducks present. No odour or sheen detected.	This location is a leachate water storage basin. Water quality recorded is reflective of leachate captured during the reporting period.
7/04/2026 11:08	EPL110	Upstream monitoring of Ravine Bay emplacement area	-	-	-	-	-	-	-	-	No water flowing	No sample collected.
14/04/2026 12:10	EPL118	Ravine Bay Leachate basin 2	17.91	87.3	8.24	1,820	1,160	8.48	158	3.2	Green colour, no odour, clear, sunny conditions, 90% full	This location is a leachate water storage basin. Water quality recorded is reflective of leachate captured during the reporting period.
14/04/2026 12:18	EPL119	Ravine Bay Leachate basin 3	16.62	70.7	6.86	1,570	1,010	8.49	159	3.1	Green colour, no odour, algae present, sunny conditions, recent rainfall, clear	This location is a leachate water storage basin. Water quality recorded is reflective of leachate captured during the reporting period.
14/04/2026 12:20	EPL120	Ravine Bay Leachate basin 4	-	-	-	-	-	-	-	-	Unable to collect sample as the basin level is too low to safely sample	No sample collected.
14/04/2026 9:13	EPL122	GF01 Drainage Line (Formerly EPL 55b)	12.77	103.1	10.89	666	427	7.15	203	13.9	Sunny day, rain over last few days, clear water, no odour.	Lower water levels and potential disturbance during sampling is understood to controbute to the elevated EC concentrations.

Table 2 - Reservoir Water Quality Data
Talbingo and Tantangara Reservoirs

Water Quality Objectives												
Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)					
-	90 - 110	-	20 - 30	-	6.5 - 8.0	-	1 - 20					
Date and Time	EPL Site ID	Location Description	Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)	Field Comments	Context
15/04/2026 10:08	EPL10	Talbingo Reservoir, downstream of road works and upstream of water intake point	18.28	92.7	8.73	56	37	7.51	161	1.6	Clear sunny day, slight sheen, no odour, turbidity <0.1 NTU	Turbidity analysis performed by an exteneral laboratory.
15/04/2026 9:45	EPL11	Talbingo Reservoir, downstream of outlet	18.58	93.2	8.72	56	36	7.67	152	2.1	Clear sunny day, no odour or sheen, turbidity <0.1 NTU	Turbidity analysis performed by an exteneral laboratory.



EPL 21266 In Situ Water Quality Measurements

EPL Monthly In-Situ Monitoring April 2026												
29/04/2026 9:10	EPL28	Tantangara Reservoir, upstream of works in the mouth of the Murrumbidgee River	9.55	80.1	9.14	29	19	7.56	199	9.9	Sunnny day, organic material in the surface, no odour	Algal presence is understood to influence the lower DO record.
29/04/2026 9:41	EPL29	Tantangara Reservoir, downstream of works area and upstream of lower Murrumbidgee River	11.65	83.5	9.07	27	18	7.6	204	3.9	Sunny day, no odour, organic material in the surface, presence of algae	Algal presence is understood to influence the lower DO record.
29/04/2026 9:33	EPL32	Tantangara Reservoir, Tantangara Intake. Downstream of construction works	11.63	78.9	8.57	28	18	7.44	208	2.5	Sunny day, no rain, organic material in the surface, presence of algae, no odour, QAs at this location	Algal presence is understood to influence the lower DO record.
29/04/2026 8:58	EPL38	Tantangara Reservoir, variable location dependant on tide and reservoir levels. Between the emplacement area and the ancillary facilities for emplacement activities	10.58	73.4	8.18	31	20	7.71	170	50.3	Sunny day, no rain, bit turbid water, organic particules suspended in the water, no odour	Algal presence is understood to influence the lower DO record.
25/04/2026 12:15	EPL39	Confluence of Nungar Creek and Tantangara Reservoir, variable location dependent on tide and reservoir levels. Upstream of Tantangara construction works	13.53	77.1	8.03	25	16	6.31	182	2.04	Clear day. No recent rain. No odour or sheen. Low flow and level. Signs of hard hooved animals around sample point. Turbidity measured with Hach meter.	Lower Do and pH consistent with lower water levels and the previously recorded conditions within this confluence area.
29/04/2026 9:13	EPL40	Confluence of the upper Murrumbidgee River and Tantangara Reservoir, variable location dependent on tide and reservoir levels. Upstream of works	9.71	83.8	9.53	29	19	7.43	208	7.5	Sunny day, no odour, organic material in the surface, the water level in the reservoir remains low	Algal presence is understood to influence the lower DO record.
29/04/2026 9:47	EPL 51	Tantangara Reservoir, downstream of Tantangara STP/PWTP diffuser outlet	11.44	78.2	8.53	31	20	7.66	204	3.3	Sunny day, no odour, organic material in the water, reservoir remains low level, no rain	physiochemical records consistent with upgraadient locations such as EPL39.
15/04/2026 9:03	EPL107	Upstream monitoring of Ravine Bay emplacement area within Yarrangobilly River	17.91	86.0	8.15	43	28	7.63	146	1.6	Clear sunny day, no odour or sheen, no algae, clear - turbidity <0.1 NTU, QA_TALRES_1/2 sampled at location	Turbidity requested to ALS
15/04/2026 8:55	EPL108	Monitoring of Ravine Bay emplacement area (center of P5E) within Yarrangobilly River	18.01	90	8.52	36	24	7.77	136	0.9	Clear sunny day, no odour or sheen, no algae, turbidity <0.1 NTU	Turbidity requested to ALS
15/04/2026 8:47	EPL109	Upstream monitoring of Ravine Bay emplacement area within Yarrangobilly River	17.87	88.6	8.4	37	24	7.88	117	0.1	Clear sunny day, no odour or sheen, no algae, clear	Location reflective of ambient conditions recorded within Reservoir locations EPL107 and EPL108.

Table 3 - Treated Water Quality Data
Talbingo

Water Quality Objectives												
Temp (°C)	DO	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)					
-	-	-	700	-	6.5 - 8.5	-	25					
Date and Time	EPL Site ID	Location Description	Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)	Field Comments	Context
12/04/2026 9:16	EPL41	Lobs Hole STP/PWTP Final Effluent Quality Monitoring Point. Downstream of final treatment, prior to discharge to Talbingo Reservoir.	17.16	100.7	9.7	7	5	6.77	235	19.4	QA_LOB_1 and QA_LOB_2 collected here, clear, no odour or sheen, not turbid, recirculating in progress	Physiochemical records within WQO's.

Table 4 - Treated Water Quality Data
Tantangara

Water Quality Objectives												
Temp (°C)	DO	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)					
-	-	-	168	-	6.5 - 8.5	-	25					
Date and Time	EPL Site ID	Location Description	Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)	Field Comments	Context
12/04/2026 9:52	EPL50	Tantangara STP/PWTP Final Effluent Quality Monitoring Point. Downstream of final treatment, prior to discharge to Tantangara Reservoir.	10.26	87.3	9.79	116	76	6.87	138	5.4	Clear water, no odour, QAs conducted QA_Tan_1 and QA_Tan_2	Physiochemical records within WQO's.

Table 5 - Groundwater Quality Data
Lobs Hole, Tantangara, Marica and Rock Forest

Water Quality Objectives												
Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)					
-	90 - 110	-	30 - 350	-	6.5 - 8.0	-	2 -25					
Date and Time	EPL Site ID	Location Description	Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)	Field Comments	Context
-	EPL1	Wallace Creek Bridge, west of ECVT portal	-	-	-	-	-	-	-	-	-	This point is sampled on quarterly basis therefore it was not included during the April period.
-	EPL2	Wallace Creek Bridge, West of ECVT portal	-	-	-	-	-	-	-	-	-	This point is sampled on quarterly basis therefore it was not included during the April period.
25/04/2026 9:32	EPL4	Lobs Hole Portal Access, west of MAT portal	-	-	-	-	-	-	-	-	Sample point under water not representative for sampling	No sample collected.
25/04/2026 9:30	EPL25	Monitoring wel, downslope of MAT portal	-	-	-	-	-	-	-	-	Sample location under water no representative for sampling	No sample collected.



EPL 21266 In Situ Water Quality Measurements

EPL Monthly In-Situ Monitoring April 2026												
14/04/2026 10:13	EPL56	GF01 groundwater upstream east	15.3	107.7	10.79	244	159	6.66	218	28	Sunny day, rain over few days, no odour, clear water	Location is understood to interact with the final GF01 design is does not reflect upgradient conditions.
14/04/2026 10:30	EPL57	GF01 groundwater upstream west	15.09	47.2	4.75	272	177	7.35	190	30.9	Sunny day, clear water, no odour, spoil placement very close to the well	Location is understood to interact with the final GF01 design is does not reflect upgradient conditions.
14/04/2026 13:57	EPL58	GF01 groundwater downstream	18.71	80.1	7.45	964	617	6.02	203	11	Sunny day, clear water, no odour	Groundwater conditions are consistent with influences originating from GF01.
11/04/2026 14:28	EPL64	Marica groundwater downgradient of the TSE	10.57	21	2.34	442	287	6.56	163	26.5	Rain overnight, a bit turbid, no odour, spoil has been placed around the well	Depth to groundwater from TOC (m) went from 7.98 m on the 11 of April to 17.73 m on the 28 of April.
11/04/2026 14:52	EPL65	Marica groundwater downgradient of the TSE	-	-	-	-	-	-	-	-	Low water level, thus not representative for sampling.	Bore checked again on 25 and 28 April. No water was available for sampling.
11/04/2026 15:27	EPL66	Marica groundwater downgradient of the TSE	11.04	30.7	3.39	93	61	5.5	326	69.3	Sunny day, rain overnight, odour detected, a bit turbid water	Depth to groundwater from TOC (m) went from 15.32 m on the 11 of April to 36.45 m on the 28 of April.
25/04/2026 12:39	EPL68	Tantangara groundwater downstream West	14.32	54	5.52	20	13	5.44	233	3.41	Clear day. No recent rain. Water clear. QA taken here. Turb measured with Hach meter.	Low pH consistent with previously established ambient conditions. Low DO and EC potentially consistent with extended rwater residence periods.
25/04/2026 12:53	EPL69	Tantangara groundwater downstream East	15.24	34.9	350	52	34	5.12	230	96.9	Clear day. No recent rain. Water yellowy colour.	Low pH consistent with previously established ambient conditions. Low DO and EC potentially consistent with extended rwater residence periods.
25/04/2026 11:09	EPL70	Tantangara groundwater upstream	13.19	60.8	6.37	386	251	3.44	353	55.5	Clear day. No recent rain. Waterlight yellowy colour in sleeve.	Low pH is potentially determined by sampling collection error / passive sleeve deployment issue. Resampling to occur within the week.
11/04/2026 14:04	EPL 72	Marica groundwater upstream	10.29	61.7	6.92	94	61	5.81	235	115	Rain overnight, a bit turbid water, no odour.	Elevated turbidity potentially reflective of rainwater ingress through the underlying formation.
24/04/2026 12:38	EPL80	Lick Hole Gully groundwater upstream	18.97	33.2	3.08	920	589	6.94	32	214	Turbid water, no recent rain, no foam sheen or odour	Location is up gradient of Project works.
27/04/2026 9:29	EPL81	Lick Hole Gully groundwater downstream	14.31	29.3	2.99	898	575	6.7	-33	233	Clear day. No recent rain. Water yellowy orange colour. Electric bore pump used.	Physiochemical results likely disturbed by the sampling method which included utilising a footvalve close to the sediment laden well bottom.
24/04/2026 13:12	EPL82	Main Yard groundwater upstream	19.77	19.3	1.75	2,760	1.76	6.63	-63	61	No recent rain, no nearby works slight sulphide odour, no foam sheen. Slightly turbid	Location is up gradient of Project works.
24/04/2026 11:36	EPL83	Main Yard groundwater downstream	17.2	24.5	2.35	782	501	6.97	131	35	No recent rain, no nearby works slightly turbid, no foam sheen or odour	Elevated EC and low DO consistent with the naturally occurring salinity within the Lick Hole Gully / Main Yard Monitoring Zone.
24/04/2026 10:53	EPL87	Main Yard groundwater downstream	16.68	36.8	3.57	1020	655	6.87	119	231	No recent rain turbid water, no nearby works, no foam sheen or odour. QA_LOBS_1 taken here	Physiochemical conditions reflective of downgradient location potentially influenced by alterations to receiving environment.
24/04/2026 10:57	EPL88	Main Yard groundwater downstream	17.34	32.8	3.14	933	597	6.8	-50	4.3	Relatively clear no nearby works, no recent rain, no foam sheen or odour	Elevated EC and low DO consistent with the naturally occurring salinity within the Lick Hole Gully / Main Yard Monitoring Zone.
24/04/2026 12:14	EPL89	Lick Hole Gully groundwater downstream	17.68	34.7	3.3	351	228	7.24	135	139	No recent rain, no nearby works, no foam sheen or odour. Turbid water	Physiochemical results likely disturbed by the sampling method which included utilising a footvalve close to the sediment laden well bottom.
14/04/2026 9:55	EPL 90	GF01 groundwater downstream	17.24	92.8	8.9	343	223	5.82	252	7	Sunny day, clear water, no odour	Groundwater conditions consistent with influences originating from the GF01 empicaement area. Location currently managed through remedial management processes.
14/04/2026 9:32	EPL 91	GF01 groundwater downstream	14.5	31.3	3.18	257	167	6.72	228	13.1	Sunny day, rain over last few days, clear water, no odour	Groundwater conditions consistent with influences originating from the GF01 empicaement area. Location currently managed through remedial management processes.



EPL 21266 In Situ Water Quality Measurements

EPL Monthly In-Situ Monitoring April 2026												
15/04/2026 8:00	EPL 92	GF01 groundwater downstream	13.38	50.4	5.27	143	93	6.64	435	140	Clear day, no rain, no odour.	Groundwater conditions consistent with influences originating from the GF01 emplaement area. Location currently managed through remedial management processes.
15/04/2026 8:25	EPL 93	GF01 groundwater downstream	13.76	32.8	3.39	243	158	7.08	392	68.8	Clear day, no rain, no odour.	Groundwater conditions consistent with influences originating from the GF01 emplaement area. Location currently managed through remedial management processes.
15/04/2026 8:43	EPL 94	GF01 groundwater downstream	14.69	28.8	2.92	173	112	6.79	148	93	Clear day, no rain, no odour, clear water	Groundwater conditions consistent with influences originating from the GF01 emplaement area. Location currently managed through remedial management processes.
14/04/2026 13:50	EPL 95	GF01 groundwater downstream	18.78	21.1	1.96	695	445	6.33	206	126	Sunny day, clear water, no odour.	Groundwater conditions consistent with influences originating from the GF01 emplaement area. Location currently managed through remedial management processes.
15/04/2026 8:58	EPL 97	GF01 groundwater downstream	15.21	25.6	2.57	486	316	6.5	120	23.7	Clear day, no rain, sulfuric smell.	Groundwater conditions consistent with influences originating from the GF01 emplaement area. Location currently managed through remedial management processes.
25/04/2026 11:34	EPL103	Upstream groundwater monitoring west of the Tantangara emplacement area	15.24	47.3	4.74	45	29	5.48	221	2.8	Clear day. No recent rain. Water clear. No odour	Low pH and DO consistent with established ambient physiochemical conditions throughout the Tantangara PSE.
25/04/2026 13:03	EPL104	Downslope groundwater monitoring east of the Tantangara emplacement area	15.13	44	4.42	51	33	5.59	215	10	Clear day. No recent rain.	Low pH and DO consistent with established ambient physiochemical conditions throughout the Tantangara PSE.
25/04/2026 11:57	EPL105	Downslope groundwater monitoring west of the Tantangara emplacement area	15.05	43.4	4.37	190	123	5.4	232	18.1	Clear day. No recent rain. No odour.	Low pH and DO consistent with established ambient physiochemical conditions throughout the Tantangara PSE.
24/04/2026 12:01	EPL113	Upstream east monitoring of Ravine Bay emplacement area	13.29	50	5.23	124	81	6.11	216	106	Sunny day, clear water, no odour	Location is up gradient of Project works.
24/04/2026 11:34	EPL114	Upstream west monitoring of Ravine Bay emplacement area	13.98	13	1.34	337	219	6.89	140	61.7	Clear water, sunny day, no odour.	Location is up gradient of Project works.
24/04/2026 12:16	EPL115	Downstream east monitoring of Ravine Bay emplacement area	14.55	20.3	2.06	317	206	7.03	177	31.4	Sunny day, clear water, no odour.	Location is subject to investigation via TARP processes.
24/04/2026 11:15	EPL116	Downstream west monitoring of Ravine Bay emplacement area	15.27	60.2	6.03	109	71	6.55	108	1,000	Sunny day, turbid water, sediment throughout the sleeve, odour.	Location is subject to investigation via TARP processes.
24/04/2026 10:56	EPL117	Downstream monitoring of Ravine Bay emplacement area	15.64	32.5	3.23	155	101	6.86	-39	17.9	Sunny day, clear water, no odour.	Location is subject to investigation via TARP processes.
28/04/2026 11:59	EPL123	Upgradient west of the Rock Forest PSE	13.54	49.4	5.14	24	16	6.49	222	574	Clear day. No recent rain. Water orange colour. Sediment in base of sleeve.	Location is up gradient of Project works.
28/04/2026 12:11	EPL124	Upgradient (NE) of the Rock Forest PSE	14.24	63.5	6.51	24	16	5.89	245	1000	Clear day. No recent rain. Water orange colour. Sediment in base of sleeve.	Location is up gradient of Project works.
28/04/2026 11:26	EPL125	Downgradient (S) of the Rock Forest PSE	14.12	42.2	4.33	99	64	7.1	139	91.1	Clear day. No recent rain. Water orangy yellow at base of sleeve.	No placement activities occurring on site, colouration consistent with heavy metal enriched formations.
28/04/2026 11:11	EPL126	Downgradient (SE) of the Rock Forest PSE	13.15	32.2	3.38	346	225	7.71	109	935	Clear day. No recent rain. Signs of stock activity near sample point. Water milky colour in sleeve.	No placement activities occurring on site, colouration consistent with heavy metal enriched formations. Livestock activity noted within proximity to location.
28/04/2026 10:46	EPL127	Downgradient of the Rock Forest PSE.	12.37	44.6	4.76	195	127	7.43	183	89	Clear day. No recent rain. Signs of stock around sample point. Yellowy sediment at base of sleeve.	No placement activities occurring on site, colouration consistent with heavy metal enriched formations. Livestock activity noted within proximity to location.



Snowy 2.0 Environmental Protection License Water Quality Results

Monitoring Period	1 - 31 May 2026
Environmental Protection Licence No:	21266
Licensee:	Snowy Hydro Limited
Licensee address:	PO Box 332, Cooma, NSW 2630
Premises:	Snowy 2.0 Pumped Hydro Power Station Talbingo and Tantangara, Kosciuszko National Park and Rock Forest, Kosciuszko NSW 2642

SUMMARY	
Groundwater Water Quality Results:	During this reporting period, groundwater monitoring locations remained consistent with baseline datasets and established historical trends. However, a marginal decrease in pH values and a minor increase in organic nitrogen concentrations were observed. This shift is likely attributable to increased surface runoff driven by the high-intensity precipitation events recorded across the project footprint. This hydrological interaction was further evidenced by accumulated sediment within the monitoring sleeves and a slight elevation in turbidity concentrations.
Reservoir Water Quality Results:	Talbingo Reservoir recorded dissolved oxygen (DO) results below WQO criteria, ranging from 74.7% to 79.5% saturation. Total nitrogen concentrations were within WQOs, while total phosphorus and ammonia exceeded the criteria, with values up to 40 µg/L TP (at EPL107) and 40 µg/L ammonia (at EPL109). Tantangara Reservoir also recorded DO results below WQOs, ranging from 62.6% to 82.6% saturation, potentially influenced by low water levels. Electrical conductivity values (15–21 µS/cm) were lower compared to the previous month. Regarding nutrient concentrations, total nitrogen exceeded WQOs across multiple sites (EPL28, EPL29, EPL38, and EPL51), with concentrations reaching up to 800 µg/L at EPL29. These elevated TN levels were primarily driven by Total Kjeldahl Nitrogen at three of the four locations, with EPL29 being the exception. No exceedances of metal concentrations were recorded at any of the Tantangara or Talbingo reservoir monitoring points.
Surface Water Quality Results:	The Yarrangobilly River Monitoring Zone May records are mainly within WQO criteria, except for ammonia concentrations at EPL5, EPL6, EPL9, and EPL15. Nutrient exceedances (total nitrogen, TN) were recorded at EPL24 (19,400 µg/L), EPL55 (39,700 µg/L), EPL98 (68,700 µg/L), and EPL122 (44,900 µg/L). These exceedances are attributed to proximity to the GF01 project-related impacted area, which is currently subject to remedial investigations. The Marica TSE Monitoring Zone exhibited elevated nutrient concentrations at EPL71, with TN at 2,800 µg/L and TP at 150 µg/L. These results are likely due to low water levels, slow flow, and a heavily vegetated creek. However, there has been a significant reduction compared to April records (7,000 µg/L TN and 210 µg/L TP), and this location will continue to be reviewed. Metal concentrations are mostly within WQO criteria; however, EPL33 recorded an elevated dissolved aluminium concentration (42 µg/L), increasing from 38 µg/L in the April monitoring period. This location will be subject to further review. Due to low water levels within the Tantangara Reservoir, EPL67 could not be accessed. Consequently, this location has been consolidated with EPL39, which will serve as the representative monitoring site for establishing ambient water quality conditions for Nungar Creek.
Discharge Water Quality Results:	Discharge water quality concentrations were within the EPL 90 percentile limits.
Leachate Water Quality Results:	Leachate storage infrastructure continues to exhibit the highest nutrient concentrations in the monitoring network, with total phosphorus up to 150 µg/L at EPL84 and total nitrogen up to 94,100 µg/L at EPL106. Metal concentrations exceeding WQOs were also recorded, including dissolved zinc up to 9 µg/L at EPL106, dissolved arsenic up to 6.9 µg/L and dissolved chromium up to 14.6 µg/L at EPL85. These results are within expectations for locations storing leachate water. No samples were collected in May at the Ravine Bay leachate basins (EPL118, EPL119, EPL120) due to access safety issues. EPL76 corresponds to the Pollution Control Basin (PCB) at Rock Forest, which is currently under construction; therefore, sampling has not yet commenced. The Marica Lower Leachate Basin USS Shaft (EPL100) had low water levels, and it was not possible to safely collect a sample.

[illegible][illegible]



Snowy Hydro 2.0 Main Works

Monthly EPL Sampling: 01 - 31 May 2026 - Talbingo and Tantangara Reservoir

Analyte	Unit	Limit of Reporting	Water Quality Objectives
Field			
pH	pH Unit	-	6.5-8
Electrical Conductivity	µS/cm	-	20-30
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value
Temperature	°C	-	No Water Quality Objective Value
Dissolved Oxygen	% saturation	-	90-110
Turbidity	NTU	-	1-20
Laboratory analytes			
Total suspended solids	mg/L	5	No Water Quality Objective Value
Hardness as CaCO ₃	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	µg/L	10	10
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value
Nitrate (as N)	µg/L	10	No Water Quality Objective Value
Nitrite (as N)	µg/L	10	No Water Quality Objective Value
Nitrogen (Total)	µg/L	100	350
Reactive Phosphorus	µg/L	10	5
Phosphorus (Total)	µg/L	10	10
Inorganics			
Cyanide Total	µg/L	4	7
Hydrocarbons			
Oil and Grease	mg/L	1	No Water Quality Objective Value
Metals			
Aluminium (total)	µg/L	5	No Water Quality Objective Value
Aluminium (dissolved)	µg/L	5	55
Arsenic (dissolved)	µg/L	0.2	13
Calcium (dissolved)	µg/L	1000	No Water Quality Objective Value
Chromium (III+VI) (total)	µg/L	0.2	No Water Quality Objective Value
Chromium (III+VI) (dissolved)	µg/L	0.2	0.01
Copper (dissolved)	µg/L	0.5	1.4
Iron (total)	µg/L	2	No Water Quality Objective Value
Iron (dissolved)	µg/L	2	300
Lead (dissolved)	µg/L	0.1	3.4
Magnesium (dissolved)	µg/L	1000	No Water Quality Objective Value
Manganese (total)	µg/L	0.5	No Water Quality Objective Value
Manganese (dissolved)	µg/L	0.5	1,900
Nickel (dissolved)	µg/L	0.5	11
Zinc (dissolved)	µg/L	1	8
Biological			
Biochemical Oxygen Demand	mg/L	2	No Water Quality Objective Value
Chlorophyll a	µg/L	1	No Water Quality Objective Value
Faecal Coliforms	CFU/100mL	1	No Water Quality Objective Value
Organic			
Dissolved Organic Carbon	mg/L	1	No Water Quality Objective Value

EPL10	EPL11	EPL28	EPL29	EPL32	EPL38	EPL39	EPL40	EPL51	EPL107	EPL108	EPL109
10/05/2026	10/05/2026	27/05/2026	27/05/2026	27/05/2026	27/05/2026	17/05/2026	27/05/2026	27/05/2026	10/05/2026	10/05/2026	10/05/2026
7.68	7.53	7.55	7.97	7.81	7.76	7.21	7.4	8.39	7.47	7.34	7.31
32	30	16	17	18	17	15	16	21	24	22	20
172	221	175	147	156	162	228	179	116	226	228	237
15.14	15.14	8.47	9.97	10	10.08	11.16	8.47	10.03	15.12	14.95	15.04
75.2	74.7	79	81.5	75.9	82.6	62.6	75.9	78.9	75.3	76.5	79.5
1	0.9	49.5	16.8	16.9	19.5	5.7	30.4	18.8	1.1	0.8	0.7
<5	<5	16	<5	<5	<5	<5	<5	<5	<5	<5	<5
17	17	9	9	9	9	7	9	9	12	12	12
20	20	100	150	140	100	<10	70	290	10	20	40
100	<100	600	300	200	600	<100	<100	300	100	<100	<100
40	30	<10	460	90	50	10	<10	120	30	30	50
<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
100	<100	600	800	300	600	<100	<100	400	100	<100	<100
<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
30	30	20	10	10	30	<10	20	10	40	20	20
<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
61	44	745	142	135	147	140	403	154	51	47	41
<5	<5	19	41	38	40	12	19	42	<5	<5	<5
0.3	0.3	<0.2	0.3	0.3	0.3	<0.2	<0.2	0.3	0.2	0.2	0.2
5,000	5,000	2,000	2,000	2,000	2,000	1,000	2,000	2,000	3,000	3,000	3,000
0.3	<0.2	0.9	0.2	0.3	0.2	0.3	0.4	0.2	<0.2	<0.2	<0.2
<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
58	46	1,430	525	500	444	136	877	532	45	43	35
12	11	204	252	248	220	53	194	255	9	8	8
<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
3.6	3.2	146	77.5	62.9	49.1	3.0	122	86.8	3.8	4.4	4.0
<0.5	<0.5	116	1.9	1.8	2.0	1.6	121	2.8	0.7	0.5	0.5
<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
<2	<2	2	-	-	-	-	-	<2	-	-	-
4	2	2	10	11	11	<1	2	10	1	1	<1
6	4	160	-	-	-	-	-	1	-	-	-
2	2	2	3	3	3	2	2	3	2	2	2



Snowy Hydro 2.0 Main Works Monthly EPL Sampling: 01 - 31 May 2026 - Surface Water			
Analyte	Unit	Limit of Reporting	Water Quality Objectives
Field	pH Unit	-	6.5-8.0
	Electrical Conductivity µS/cm	-	30-350
	Oxidation Reduction Potential mV	-	No Water Quality Objective Value
	Temperature °C	-	No Water Quality Objective Value
	Dissolved Oxygen % saturation	-	90-110
Turbidity	NTU	-	2.25
Laboratory analysis			
Total suspended solids	mg/L	5	No Water Quality Objective Value
Hardness as CaCO ₃	mg/L	5	No Water Quality Objective Value
Nutrients			
Ammonia as N	µg/L	10	13
Nitrate Nitrogen Total	µg/L	100	No Water Quality Objective Value
Nitrate (as N)	µg/L	10	No Water Quality Objective Value
Nitrite (as N)	µg/L	100	No Water Quality Objective Value
Nitrogen (Total)	µg/L	100	250
Reactive Phosphorus	µg/L	10	15
Phosphorus (Total)	µg/L	10	20
Emergents			
Cyanide Total	µg/L	4	4
Hydrocarbons			
Oil and Grease	mg/L	1	No Water Quality Objective Value
Metals			
Aluminium (Total)	µg/L	5	No Water Quality Objective Value
Aluminium (Dissolved)	µg/L	5	27
Arsenic (Dissolved)	µg/L	0.2	5
Calcium (Dissolved)	µg/L	1000	No Water Quality Objective Value
Chromium (Din-VI) (Dissolved)	µg/L	0.2	No Water Quality Objective Value
Chromium (Din-VI) (Dissolved)	µg/L	0.01	
Copper (Dissolved)	µg/L	0.5	1
Iron (Total)	µg/L	2	No Water Quality Objective Value
Iron (Dissolved)	µg/L	2	500
Lead (Dissolved)	µg/L	0.1	1
Magnesium (Dissolved)	µg/L	1000	No Water Quality Objective Value
Manganese (Total)	µg/L	0.5	No Water Quality Objective Value
Manganese (Dissolved)	µg/L	0.5	1,200
Nickel (Dissolved)	µg/L	0.5	8
Zinc (Dissolved)	µg/L	1	2.4
Biological			
Chlorophyll a	µg/L	1	No Water Quality Objective Value
Organic			
Dissolved Organic Carbon	µg/L	1	No Water Quality Objective Value

EPL1	EPL6	EPL8	EPL9	EPL12	EPL14	EPL15	EPL16	EPL24	EPL26	EPL27	EPL30	EPL31	EPL33	EPL34	EPL35	EPL36	EPL37	EPL52	EPL55	EPL67	EPL71	EPL76	EPL84	EPL85	EPL86	EPL98	EPL99	EPL100	EPL101	EPL106	EPL110	EPL118	EPL119	EPL120	EPL122	
23/05/2026	28/05/2026	28/05/2026	28/05/2026	28/05/2026	28/05/2026	28/05/2026	28/05/2026	16/05/2026	8/05/2026	8/05/2026	17/05/2026	17/05/2026	17/05/2026	17/05/2026	17/05/2026	8/05/2026	8/05/2026	21/05/2026	16/05/2026	-	8/05/2026	-	16/05/2026	16/05/2026	16/05/2026	23/05/2026	8/05/2026	-	8/05/2026	16/05/2026	16/05/2026	16/05/2026	-	-	-	16/05/2026
6.81	7.48	7.57	7.75	7.16	7.46	7.57	7.84	7.44	8.49	8.67	7.84	7.87	7.93	8.36	8.12	7.87	7.71	7.43	7.46	-	6.94	-	7.97	8.17	8.44	6.7	8.86	-	7.29	7.8	7.94	-	-	-	8.18	
71	44	89	76	71	69	71	76	421	17	17	25	20	20	31	13	27	52	877	801	-	158	-	380	452	881	957	281	-	422	2105	44	-	-	-	440	
201	217	227	224	204	217	220	217	235	185	180	215	218	208	191	193	199	185	239	287	-	248	-	183	163	85	276	168	-	219	91	175	-	-	-	212	
7.7	6.26	8	7.17	7.16	6.47	7.31	7.21	15.4	5.38	5.73	6.7	6.8	9.51	6.3	5.94	7.38	8.02	12.2	15.53	-	6.88	-	10.64	10.91	13.75	14.36	7.25	-	5.56	12.65	12.08	-	-	-	14.55	
71.4	95.7	97.7	93.4	99.1	79.7	80.8	102.9	94.2	63.5	57	16.1	17.3	52.5	59.7	78.7	66.2	76.9	88.7	97.8	-	54.8	-	63.2	66.8	62.5	65.5	52.5	-	86	62.7	71.4	-	-	-	105.1	
10	8.6	16.4	5.2	6.4	10	7.1	6.9	17.1	4.9	2	12.7	4.2	10.3	6.1	1.8	25.5	5.6	132	12.8	-	243	-	410	85.7	62.2	47.8	109	-	72.4	11.4	24	-	-	-	11.3	
-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-	65	-	164	25	17	-5	47	-	30	14	-5	-	-	-	65	
53	33	53	53	55	48	51	53	195	9	9	13	9	9	7	7	11	20	464	444	-	62	-	77	78	267	522	110	-	171	678	23	-	-	-	155	
20	80	10	30	<10	<10	30	<10	20	20	<10	<10	<10	<10	140	<10	<10	80	70	20	130	-	20	-	100	60	20	<10	630	-	80	70	60	-	-	10	
100	<100	890	209	200	<100	<100	180	<100	1,200	<100	<100	<100	<100	300	<100	<100	200	300	5,200	1,800	-	500	-	900	500	1,500	7,000	1,800	-	1,000	6,600	<100	-	-	1,800	
<10	70	40	<10	<10	<10	<10	<10	<10	18,200	<10	<10	<10	20	50	60	<10	20	20	48,000	37,000	-	2,350	-	1,720	3,130	4,630	61,600	7,610	-	10,000	87,000	<10	-	-	43,600	
<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	10	-	20	20	<10	40	-	110	400	<10	-	-	-	<10		
100	<100	200	200	<100	<100	<100	<100	19,400	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	-	2,800	-	2,200	3,000	5,700	68,700	9,000	-	12,000	94,100	<100	-	-	-	44,500	
<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	<10	-	<10	30	<10	<10	<10	-	10	<10	<10	-	-	<10		
<10	<10	<10	10	20	<10	10	10	<10	30	50	<10	<10	10	<10	<10	40	50	20	<10	-	150	-	150	70	50	20	50	-	110	<10	<10	-	-	-	<10	
-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-	-4	-	-4	-4	-4	-4	-4	-	15	-4	-4	-	-	-	-4	
<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	-	-	-	<1.0	
81	27	88	81	95	76	70	71	695	112	98	236	10	94	69	71	122	344	412	189	-	3,780	-	3,770	613	492	7	1,100	-	632	127	162	-	-	-	1,490	
10	<5	7	8	10	8	9	7	15	13	13	10	10	42	7	6	15	18	<5	<5	-	<5	-	<5	13	<5	<5	14	-	8	<5	6	-	-	<5		
0.5	<0.2	0.4	0.4	0.5	0.4	0.4	0.4	0.3	<0.2	<0.2	<0.2	0.4	<0.2	<0.2	<0.2	<0.2	0.2	0.9	0.3	-	0.2	-	2.8	6.9	2.8	<0.2	2.1	-	2.8	2.1	0.5	-	-	<0.2		
18,000	9,000	18,000	18,000	18,000	18,000	18,000	18,000	22,000	2,000	2,000	2,000	2,000	2,000	1,000	1,000	1,000	3,000	72,000	69,000	-	15,000	-	21,000	21,000	51,000	73,000	31,000	-	52,000	105,000	6,000	-	-	-	16,000	
0.9	<0.2	0.3	0.2	0.3	0.2	0.2	0.2	1.6	0.4	0.4	0.3	<0.2	<0.2	<0.2	<0.2	<0.2	0.3	0.6	1.5	0.8	-	7.2	-	30.0	15.9	4.0	<0.2	18.1	-	21.7	3.1	<0.2	-	-	1.8	
0.2	0.2	<0.2	<0.2	0.2	0.3	0.2	<0.2	0.5	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	0.6	0.5	-	1.9	-	1.9	14.6	2.9	0.2	17.0	-	22.2	3.0	<0.2	-	-	-	<0.2	
<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.1	-	2.1	1.2	2.2	<0.5	<0.5	-	0.6	0.9	<0.5	-	-	-	0.8	
62	36	69	72	72	97	53	59	713	137	112	209	45	299	88	96	254	374	386	201	-	3,145	-	4,300	611	531	4	1,120	-	567	124	45	-	-	-	2,125	
27	17	21	21	21	27	20	26	26	72	26	24	16	22	208	10	84	74	71	<2	<2	-	3	-	4	<2	7	<2	-	<2	<2	6	-	-	6		
<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	-	-	-	<0.1		
2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	14,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	2,000	3,000	-	6,000	-	6,000	5,000	34,000	80,000	8,000	-	10,000	101,000	2,000	-	-	-	20,000	
2.1	5.6	2.6	8.1	2.7	2.0	2.1	5.1	52.1	5.0	3.6	9.6	1.6	31.1	3.8	4.1	35.2	10.6	18.1	4.5	-	107	-	172	27.1	26.1	4.4	17.3	-	23.0	4.8	<0.5	-	-	-	69.7	
1.2	4.2	1.7	6.7	1.2	1.1	1.7	4.4	42.4	1.7	1.3	1.8	1.0	1.5	3.0	3.3	31.1	3.0	8.4	0.9	-	55.1	-	39.2	11.5	0.8	4.7	2.5	-	13.6	<0.5	-	-	-	4		
<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.7	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	1.1	-	1.8	1.3	0.7	1.6	<0.1	-	1.1	4.7	<0.1	-	-	-	1.4	
<1	<1	<1	<1	<1	<1	<1	<1	3	<1	<1	<1	<1	<1	<1	<1	<1	<1	18	6	-	<1	-	<1	<1	<1	36	<1	-	<1	9	28	-	-	-	2	
<1	<1	<1	<1	<1	<1	<1	<1	6	<1	<1	<1	13	13	<1	<1	<1	<1	<1	<1	-	<1	-	2	2	13	<1	2	-	<1	5	<1	-	-	-	2	
4	1	2	2	2	2	2	2	2	2	2	1	1	4	2	2	4	3	2	2	-	3	-	2	2	5	1	2	-	3	4	3	-	-	-	2	

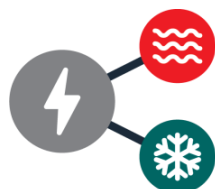


Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01 - 31 May 2026 - Discharge Water

Analyte	Unit	Limit of Reporting	Water Quality Objectives / EPL Discharge Limits*	EPL 41 3/05/2026	EPL 50 17/05/2026
Field					
pH	pH Unit	-	6.5-8.5	7.96	8.03
Electrical Conductivity	µS/cm	-	700 (EPL 41) / 200 (EPL 50)	21	58
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	208	216
Temperature	°C	-	No Water Quality Objective Value	17.44	12.84
Dissolved Oxygen	% saturation	-	No Water Quality Objective Value	69	54.1
Turbidity	NTU	-	1-20	4.9	0.8
Laboratory analytes					
Total suspended solids	mg/L	5	5*/10**	<5	<5
Hardness as CaCO ₃	mg/L	1	No Water Quality Objective Value	<1	2
Nutrients					
Ammonia as N	µg/L	10	1000*/2000**	40	10
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	<100	200
Nitrate (as N)	µg/L	10	No Water Quality Objective Value	160	120
Nitrite (as N)	µg/L	10	No Water Quality Objective Value	<10	<10
Nitrogen (Total)	µg/L	100	1500*/3000**	200	300
Reactive Phosphorus	µg/L	10	No Water Quality Objective Value	<10	<10
Phosphorus (Total)	µg/L	10	300*/500**	<10	<10
Inorganics					
Cyanide Total	µg/L	4	No Water Quality Objective Value	<4	<4
Hydrocarbons					
Oil and Grease	mg/L	1	2*/5**	<1.0	<1.0
Metals					
Aluminium (total)	µg/L	5	No Water Quality Objective Value	<5	<5
Aluminium (dissolved)	µg/L	5	No Water Quality Objective Value	<5	<5
Arsenic (dissolved)	µg/L	0.2	No Water Quality Objective Value	<0.2	<0.2
Calcium (dissolved)	µg/L	1000	No Water Quality Objective Value	<1,000	1,000
Chromium (III+VI) (total)	µg/L	0.2	No Water Quality Objective Value	<0.2	0.8
Chromium (III+VI) (dissolved)	µg/L	0.2	No Water Quality Objective Value	<0.2	0.5
Copper (dissolved)	µg/L	0.5	No Water Quality Objective Value	<0.5	<0.5
Iron (total)	µg/L	2	No Water Quality Objective Value	<2	<2
Iron (dissolved)	µg/L	2	No Water Quality Objective Value	<2	<2
Lead (dissolved)	µg/L	0.1	No Water Quality Objective Value	<0.1	<0.1
Magnesium (dissolved)	µg/L	1000	No Water Quality Objective Value	<1,000	<1,000
Manganese (total)	µg/L	0.5	No Water Quality Objective Value	<0.5	0.8
Manganese (dissolved)	µg/L	0.5	No Water Quality Objective Value	<0.5	0.6
Nickel (dissolved)	µg/L	0.5	No Water Quality Objective Value	<0.5	<0.5
Zinc (dissolved)	µg/L	1	No Water Quality Objective Value	<1	<1
Biological					
Biological Oxygen Demand	mg/L	2	3.5*/5**	<2	<2
Chlorophyll a	µg/L	1	No Water Quality Objective Value	<1	<1
Faecal Coliforms	CFU/100mL	1	10*/100**	2	<1
Organic					
Dissolved Organic Carbon	mg/L	1	No Water Quality Objective Value	<1	<1

* EPL Discharge Limits, 90 Percentile Concentration Limit as per EPL 21266

** EPL Discharge Limits, 100 Percentile Concentration Limits as per EPL 21266



Future Generation
Webuild • Clough • Lane

Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01 - 31 May 2026 - Discharge Volumes

	EPL 43	EPL 50
Date	Discharge volume (Megalitres)	
1/05/2026	0.31	0.29
2/05/2026	-	0.72
3/05/2026	0.25	0.65
4/05/2026	0.31	0.35
5/05/2026	-	0.52
6/05/2026	-	0.39
7/05/2026	0.55	0.41
8/05/2026	-	0.49
9/05/2026	0.52	0.32
10/05/2026	0.22	0.41
11/05/2026	0.42	-
12/05/2026	0.22	0.53
13/05/2026	0.46	0.31
14/05/2026	-	0.16
15/05/2026	0.47	-
16/05/2026	-	0.32
17/05/2026	0.26	0.54
18/05/2026	0.39	0.94
19/05/2026	0.36	0.42
20/05/2026	0.52	0.64
21/05/2026	-	0.76
22/05/2026	-	0.49
23/05/2026	-	0.66
24/05/2026	0.17	-
25/05/2026	-	0.80
26/05/2026	0.38	0.55
27/05/2026	0.47	0.18
28/05/2026	0.33	0.48
29/05/2026	-	0.41
30/05/2026	0.65	0.49
31/05/2026	-	0.39



EPL 21266 In Situ Water Quality Measurements

EPL Monthly In-Situ Monitoring May 2026

Table 1 - Surface Water Quality Data
River and Minor Watercourses

Water Quality Objectives												
Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)					
-	90 - 110	-	30 - 350	-	6.5 - 8.0	-	2 - 25					
Date and Time	EPL Site ID	Location Description	Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)	Field Comments	Context
23 May 2026, 8:14 AM	EPL5	Yarrangobilly River, upstream of the exploratory tunnel and construction pad	7.7	71.4	8.52	71	46	6.81	201	10	Sunny day, cold day, no recent rain, clear water, no odor, medium flow	This is an upgradient location and not impacted by project works
23 May 2026, 8:51 AM	EPL6	Wallaces Creek, upstream of Yarrangobilly River and Wallaces Creek confluence	6.26	95.7	11.83	44	29	7.48	217	6.5	cold day, slow flow clear water, no odor	All parameters are within the WQO's
23 May 2026, 9:59 AM	EPL8	Yarrangobilly River, downstream of Lick Hole Gully	8	97.7	11.56	89	58	7.57	227	15.4	Sunny day, medium flow, clear water, no odor	All parameters are within the WQO's
23 May 2026, 10:22 AM	EPL9	Yarrangobilly River, downstream of the accommodation camp and upstream of Talbingo Reservoir	7.17	93.4	11.29	76	50	7.73	224	5.2	Sunny day, clear water, foam on the surface, no odor, medium flow	All parameters are within the WQO's
23 May 2026, 8:30 AM	EPL12	Yarrangobilly River, immediately downstream of portal pad	7.16	99.1	12.16	71	46	7.16	204	6.8	Cold day, no recent rain, a bit foam on the surface, no odor, clear water	All parameters are within the WQO's
23 May 2026, 9:13 AM	EPL14	Yarrangobilly River, downstream of road construction areas	6.67	79.7	9.75	69	45	7.46	217	10	Sunny day, clear water, slow flow, no odor	Low DO% is within the range of the baseline water quality results in the surface water management plan.
23 May 2026, 9:36 AM	EPL15	Yarrangobilly River, downstream of road construction areas	7.31	80.8	9.73	71	46	7.57	220	7.1	Snny day, slow flow, a bit of foam on the surface, odor, clear water	Low DO% is within the range of the baseline water quality results in the surface water management plan.
23 May 2026, 10:41 AM	EPL16	Yarrangobilly River, downstream of road construction areas	7.21	102.9	12.43	76	49	7.94	217	6.9	Sunny day, clear water, no odor, medium flow, a bit turbulent, QAs conducted here	All parameters are within the WQO's
16 May 2026, 2:32 PM	EPL24	Yarrangobilly River tributary (Watercourse 2), directly downstream of road	15.4	54.2	5.4	421	274	7.44	235	17.3	Clear day. No recent rain. Water lightly milky in colour. Low level. Medium flow.	These results are consistent with previous sampling rounds.
9 May 2026, 8:16 AM	EPL26	Eucumbene River downstream of Marica Road	5.38	63.5	8.03	17	11	8.49	185	4.9	Clear day, no raining, medium water level and fast flow, clear water, no odour, signs of animal activity.	These results are consistent with the upstream location.
9 May 2026, 7:58 AM	EPL27	Eucumbene River upstream of Marica Road	5.73	57.0	7.15	17	11	8.67	180	2	Clear day, no raining, no odour, fast flow, medium water level, clear water. QAs collected here.	This is an upgradient location and not impacted by project works.
17 May 2026, 8:48 AM	EPL30	Kellys Plain Creek, downstream of accommodation camp and laydown areas	6.7	56.1	6.86	25	16	7.84	215	12.7	Foggy morning. No recent rain. Water level and flow medium. Signs of hard hooved animal activity at sample location.	These results are consistent with the upstream location.
17 May 2026, 8:34 AM	EPL31	Kellys Plain Creek, upstream of accommodation camp and laydown areas	6.8	57.3	6.99	20	13	7.87	216	4.2	Foggy morning. No recent rain. Signs of hard hooved animal activity near sample point. Water level and flow medium.	This is an upgradient location and not impacted by project works.
17 May 2026, 7:48 AM	EPL33	Murrumbidgee River, downstream of Tantangara reservoir outlet	9.51	52.5	6	20	13	7.93	208	10.3	Foggy morning. No recent rain. Reservoir discharging at time of sample collection. Algal growth at bed of stream.	Parameters are similar to the upgradient reservoir locations. Algal growth has been noted in the field observations
17 May 2026, 7:08 AM	EPL34	Nungar Creek, upstream of Tantangara Road	6.3	59.7	7.37	31	20	8.36	191	6.1	Foggy morning. No recent rain. Medium flow and level. Signs of hard hooved animal activity near sample point. Algal growth in stream bed.	This is an upgradient location and not impacted by project works
17 May 2026, 7:15 AM	EPL35	Nungar Creek, downstream of Tantangara Road	5.94	78.7	9.81	13.0	9	8.12	193	3.8	Foggy morning. No recent rain. No odour or sheen. Signs of hard hooved animal activity near sample point. Algal growth at bed of stream. Water level and flow medium.	The parameters are consistent with the upgradient location and historical results.
9 May 2026, 9:36 AM	EPL 36	Camerons Creek, upstream of works in Rock Forest	7.38	66.2	7.96	27	17	7.87	199	25.5	Clear day, no rain, no flow, no odour, no sheen, signs of animal activity	This is an upgradient location and not impacted by project works
9 May 2026, 9:53 AM	EPL 37	Camerons Creek, downstream of works in Rock Forest	8.02	76.9	9.1	52	34	7.71	185	5.6	Clear day, no rain, low water level, slow flow, clear water, no odour, signs of animal activity. QAs collected here.	Low DO% has been recorded at this location over the last 12 months.
23 May 2026, 11:24 AM	EPL52	GF01 leachate basin	12.2	88.7	9.49	877	561	7.43	239	132	Sunny day, basin' water level pretty full, no odor, turbid	Parameters are representative of leachate storage infrastructure
16 May 2026, 3:25 PM	EPL55	GF01 surface water downstream	15.53	97.8	9.73	801	512	7.46	207	12.8	Clear day. No recent rain. Water clear with no odour. GF01 recently overtopping.	High EC could be attributed to the recent overtopping of the upgradient leachate basin (GF01) as mentioned in the field notes.
-	EPL67	Nungar Creek surface water downstream west from Tantangara emplacement area	-	-	-	-	-	-	-	-	-	Reservoir level was to low to collect sample
9 May 2026, 6:53 AM	EPL71	Surface water downstream of Marica emplacement	6.88	54.8	6.66	158	101	6.54	248	243	Cloudy day, no raining, milky colour water, slow flow, no odour, heavy vegetated creek.	Low water levels and flow could contribute to sediments being disturbed during sample collection affecting turbidity. Low DO% has been observed at this location previously. This location is being monitored due to prior TKN levels being elevated.
-	EPL76	Rock Forest Leachate basin	-	-	-	-	-	-	-	-	-	Basin dry
16 May 2026, 9:20 AM	EPL84	F8 Basin	10.64	63.2	7.02	380	247	7.97	163	410	QA_MY_01, sunny day, highly turbid, no odour or sheen, inflows into basin, basin overtopping	Parameters are representative of leachate storage infrastructure
16 May 2026, 9:33 AM	EPL85	MY07 Basin	10.91	86.8	9.58	452	294	8.17	163	86	Overcast day, no odour or sheen, turbid, birds present no	Parameters are representative of leachate storage infrastructure
16 May 2026, 10:34 AM	EPL86	LHG01 Basin	13.75	62.5	6.46	883	565	8.44	85	62.2	Overcast day, inflow into basin from leachate line, turbid, no odour or sheen	Parameters are representative of leachate storage infrastructure
23 May 2026, 11:27 AM	EPL98	Rock blanket diversion monitoring under GFO1 liner	14.36	65.5	6.68	957	613	6.7	276	47.8	Sunny day, clear water, algae around the discharge point	Results are consistent with previously recorded data from prior sampling rounds
9 May 2026, 7:40 AM	EPL99	Marica Leachete Basin- Turkey's Nest	7.25	52.5	6.33	281	183	8.86	168	109	Clear day, no raining, no odour, active discharge into the basin.	Parameters are representative of leachate storage infrastructure



EPL 21266 In Situ Water Quality Measurements

EPL Monthly In-Situ Monitoring May 2026												
9 May 2026, 7:20 AM	EPL100	Marica Lower Leachate Basin USS Shaft	-	-	-	-	-	-	-	-	Low water level, it is not possible to safely sample.	Basin dry
9 May 2026, 7:26 AM	EPL101	Marica Leachate Basin Spoil Pad	5.56	86	10.81	422	275	7.29	219	72.4	Clear day, no raining, low water level, no odour, vac truck desilting the basing at time of sampling.	Parameters are representative of leachate storage infrastructure
16 May 2026, 10:13 AM	EPL106	Ravine Bay Leachate basin 1	12.65	62.7	6.6	2,100	1,340	7.8	91	13.4	Clear day. No recent rain. Water clear no odour. Water taken from tap at holding tanks.	Parameters are representative of leachate storage infrastructure
16 May 2026, 11:09 AM	EPL110	Upstream monitoring of Ravine Bay emplacement area	12.06	71.4	7.69	44	29	7.94	175	24	Clear day. No recent rain. Water flowing well. No odour or sheen.	This location is upstream of project works and therefore not considered to be impacted by construction
18 May 2026, 12:23 PM	EPL118	Ravine Bay Leachate basin 2	-	-	-	-	-	-	-	-	No sample taken due to safe access issues.	Basin not sampled due to access issues
18 May 2026, 12:04 PM	EPL119	Ravine Bay Leachate basin 3	-	-	-	-	-	-	-	-	No sample taken due to safe access issues	Basin not sampled due to access issues
18 May 2026, 12:01 PM	EPL120	Ravine Bay Leachate basin 4	-	-	-	-	-	-	-	-	No water sample taken due to water level is very low	Basin not sampled due to access issues
16 May 2026, 2:51 PM	EPL122	GFO1 Drainage Line (Formerly EPL 55b)	14.55	60.5	6.15	440	286	8.18	212	11.3	Clear day. No recent rain. Water flow and level low.	These parameters are consistent with previously recorded data.

Table 2 - Reservoir Water Quality Data
Talbingo and Tantangara Reservoirs

Water Quality Objectives												
Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)					
-	90 - 110	-	20 - 30	-	6.5 - 8.0	-	1 - 20					
Date and Time	EPL Site ID	Location Description	Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)	Field Comments	Context
2 May 2026, 1:06 PM	EPL10	Talbingo Reservoir, downstream of road works and upstream of water intake point	16.5	97.4	9.54	63.6	41	7.72	86.5	1.92	No recent rain, no foam sheen or odour clear water	All parameters are within the WQO's
2 May 2026, 12:28 PM	EPL11	Talbingo Reservoir, downstream of outlet	16.6	96.4	9.41	59.9	39	7.72	87.2	1.1	Clear water slight algal presence, no recent rain. No foam sheen or odour	All parameters are within the WQO's
27 May 2026, 9:33 AM	EPL28	Tantangara Reservoir, upstream of works in the mouth of the Murrumbidgee River	8.47	79	9.25	16	10	7.55	175	49.5	Cloudy day, no rain, low reservoir level, no odour, slightly wind, turbid water, visible suspended solids.	This location is upstream and not affected by project activities
27 May 2026, 8:37 AM	EPL29	Tantangara Reservoir, downstream of works area and upstream of lower Murrumbidgee River	9.97	81.5	9.2	17	11	7.97	147	16.8	Cloudy day, no rain, low reservoir level, no odour, no windy, visible suspended solids.	Parameters are representative of upstream location
27 May 2026, 8:45 AM	EPL32	Tantangara Reservoir, Tantangara Intake. Downstream of construction works	10	75.9	8.57	18	11	7.81	156	16.9	Cloudy day, no rain, low reservoir level, no odour, no wind, visible suspended solids. QAs collected in this location.	Parameters are representative of upstream location
27 May 2026, 8:58 AM	EPL38	Tantangara Reservoir, variable location dependant on tide and reservoir levels. Between the emplacement area and the ancillary facilities for emplacement activities	10.08	82.6	9.31	17	11	7.76	162	19.5	Cloudy day, no rain, low reservoir level, no odour, slightly windy, visible suspended solids.	Parameters are representative of upstream location
17 May 2026, 10:59 AM	EPL39	Confluence of Nungar Creek and Tantangara Reservoir, variable location dependent on tide and reservoir levels. Upstream of Tantangara construction works	11.16	62.6	6.88	15	10	7.21	228	5.7	Clear water medium flow. No recent rain. Signs of hard hooved animals at sample point. Algal and other vegetation around sample point.	This location is upstream and not affected by project activities
27 May 2026, 9:40 AM	EPL40	Confluence of the upper Murrumbidgee River and Tantangara Reservoir, variable location dependent on tide and reservoir levels. Upstream of works	8.47	75.9	8.89	16	11	7.4	179	30.4	Cloudy day, no rain, low water level, no odour, visible suspended solids.	This is an upgradient location and not influenced by construction works
27 May 2026, 8:27 AM	EPL 51	Tantangara Reservoir, downstream of Tantangara STP/PWTP diffuser outlet	10.03	78.9	8.91	21	13	8.39	116	18.8	Cloudy day, no rain, low water level, no windy, no odour, visible suspended solids.	Parameters are representative of upstream location, with the exception of pH being elevated.
10 May 2026, 9:10 AM	EPL107	Upstream monitoring of Ravine Bay emplacement area within Yarrangobilly River	15.12	75.3	7.57	24	7.57	7.47	226	1.1	Clear sunny day, no odour or sheen, clear	This is an upgradient location and not influenced by construction works
10 May 2026, 8:58 AM	EPL108	Monitoring of Ravine Bay emplacement area (center of PSE) within Yarrangobilly River	14.95	76.5	7.72	22	15	7.34	228	0.8	Clear sunny day, no odour, slight sheen, clear	Parameters are representative of upstream location
10 May 2026, 8:48 AM	EPL109	Upstream monitoring of Ravine Bay emplacement area within Yarrangobilly River	15.04	79.5	8.01	20	13	7.31	237	0.7	Clear sunny day, clear no odour or sheen, QA_LOBS_1 and 2 sampled here	This is an upgradient location and not influenced by construction works

Table 3 - Treated Water Quality Data
Talbingo

Water Quality Objectives												
Temp (°C)	DO	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)					
-	-	-	700	-	6.5 - 8.5	-	25					
Date and Time	EPL Site ID	Location Description	Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)	Field Comments	Context
3 May 2026, 10:45 AM	EPL41	Lobs Hole STP/PWTP Final Effluent Quality Monitoring Point. Downstream of final treatment, prior to discharge to Talbingo Reservoir.	17.44	69	6.61	21	14	7.96	208	4.9	Clear water. QA_LOBS_2 and QA_LOBS_3 taken here.	All parameters are within the WQO's

Table 4 - Treated Water Quality Data
Tantangara

Water Quality Objectives												
Temp (°C)	DO	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)					
-	-	-	168	-	6.5 - 8.5	-	25					
Date and Time	EPL Site ID	Location Description	Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)	Field Comments	Context
17 May 2026, 9:13 AM	EPL50	Tantangara STP/PWTP Final Effluent Quality Monitoring Point. Downstream of final treatment, prior to discharge to Tantangara Reservoir.	12.84	54.1	5.71	58	38	8.03	216	0.8	Area around sample location clean and tidy. Plant recirculating at time of collection. QA's taken here.	All parameters are within the WQO's



EPL 21266 In Situ Water Quality Measurements

Table 5 - Groundwater Quality Data
Lobs Hole, Tantangara, Marica and Rock Forest

EPL Monthly In-Situ Monitoring May 2026

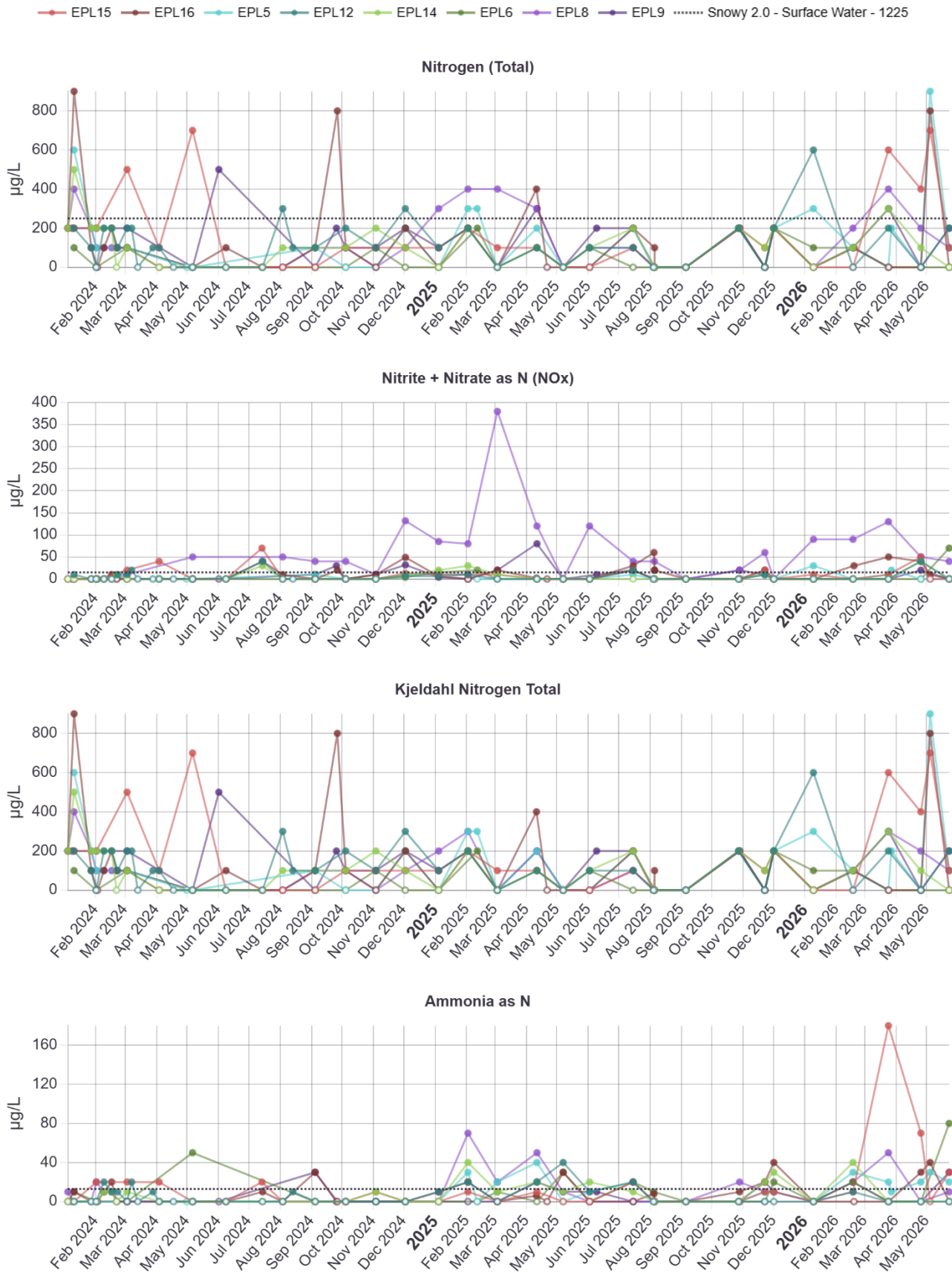
Water Quality Objectives												
Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)					
-	90 - 110	-	30 - 350	-	6.5 - 8.0	-	2 -25					
Date and Time	EPL Site ID	Location Description	Temp (°C)	DO (%)	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	pH	Redox (mV)	Turbidity (NTU)	Field Comments	Context
30 May 2026, 2:38 PM	EPL1	Wallace Creek Bridge, west of ECVT portal	-	-	-	-	-	-	-	-	No sample taken due to water inundation.	No sample taken due to water inundation
30 May 2026, 2:19 PM	EPL2	Wallace Creek Bridge, West of ECVT portal	13.33	59.6	6.22	449	292	6.67	103	25.6	Overcast day. Light rain over last 24hrs. Grey mettalic colour in base of sleeve suspected from unused bore logger. Sulphuric smell.	Metallic odours and colours have been reported at this location previously. Sulphuric smell could be put down to low Dissolved Oxygen % within the aquifer
30 May 2026, 2:17 PM	EPL4	Lobs Hole Portal Access, west of MAT portal	-	-	-	-	-	-	-	-	Sample not taken due to water inundation.	No sample taken due to water inundation
30 May 2026, 2:46 PM	EPL25	Monitoring wel, downslope of MAT portal	13.14	11	1.15	453	295	6.46	-30	1000	Overcast day. Light rain in previous 24hrs. Water muddy brown colour at base of sleeve.	Low DO%, and pH are consistently recorded at this location, as is high EC.
11 May 2026, 2:45 PM	EPL56	GF01 groundwater upstream east	15.09	9	0.91	165	107	7.59	120	17.2	Sunny day, no recent rain, no odour, clear water.	This is an upgradient location and not impacted by project works
11 May 2026, 2:59 PM	EPL57	GF01 groundwater upstream west	14.74	11.5	1.17	188	122	8.19	122	24.5	Sunny day, no recent rain, wet ground arpunnd sample point, it is assumed water car sprayed recently, clear water, no odour.	This is an upgradient location and not impacted by project works
16 May 2026, 3:07 PM	EPL58	GF01 groundwater downstream	16.5	16.3	1.58	697	446	6.28	266	3.7	Clear day. No recent rain. Water clear no odour. QA's taken here.	Low DO% and elevated EC fall within previously recorded data range.
8 May 2026, 7:42 AM	EPL64	Marica groundwater downgradient of the TSE	8.02	82.3	9.72	370	241	7.8	156	18.2	Lightly raining, cloudy and foggy day, water pooling at sample point, clear water, no odour.	Low DO% and slightly elevated EC are consistently recorded at this location
8 May 2026, 7:28 AM	EPL65	Marica groundwater downgradient of the TSE	-	-	-	-	-	-	-	-	No water available, dry.	Location not sampled due to availability of water
8 May 2026, 7:20 AM	EPL66	Marica groundwater downgradient of the TSE	-	-	-	-	-	-	-	-	No water available.	Location not sampled due to availability of water
17 May 2026, 11:20 AM	EPL68	Tantangara groundwater downstream West	12.98	52.9	5.57	14	9	6.2	275	2.1	Clear day. No recent rain. Water clear with no odour.	Parameters at this location are representative of the upstream location
17 May 2026, 11:27 AM	EPL69	Tantangara groundwater downstream East	13.71	30.7	3.19	24	16	6.02	275	322	Clear day. No recent rain. Water yellowy orange colour. No odour.	Parameters at this location are representative of the upstream location
17 May 2026, 10:12 AM	EPL70	Tantangara groundwater upstream	11.65	42.4	4.6	95	62	7.23	242	68	Clear day. No recent rain. Yellowy sediment at base of sleeve.	This location is upgradient to construction works and not affected by the project.
8 May 2026, 8:01 AM	EPL 72	Marica groundwater upstream	8.49	63.2	7.39	66	43	7.52	203	30.1	Cloudy and foggy day, clear water, no odour, water pooling near sample point.	This location is upgradient to construction works and not affected by the project.
16 May 2026, 12:39 PM	EPL80	Lick Hole Gully groundwater upstream	17.36	34.8	3.33	840	538	5.45	53	124	Highly stratified water column, orange growth present, slightly turbid, no odour, concrete pad requires work	This location is upgradient to construction works and not affected by the project. Low pH is characteristic at this site however %45 is on the lower side again, this could be put down to sampling error and will be monitored in future rounds.
16 May 2026, 10:43 AM	EPL81	Lick Hole Gully groundwater downstream	13.75	62.5	6.46	883	565	8.44	85	62.2	Purged with submersible pump, turbid, no odour	These parameters are consistent with the upstream location, other than pH, which will be monitored
16 May 2026, 1:06 PM	EPL82	Main Yard groundwater upstream	17.69	18.8	1.77	2,980	1,910.00	8.65	-118	96	Strong sulphuric odour, clear, hydrasleeve required	This location is upgradient to construction works and not affected by the project. Elevated EC is within previously recorded range.
16 May 2026, 10:12 AM	EPL83	Main Yard groundwater downstream	13.83	39.5	4.08	771	494	7.35	89	216	Overcast day , no odour or sheen, slightly milky, purged via submersible pump	Low DO% and elevated EC within previously recorded data range. Turbidity is mentioned in the field notes.
16 May 2026, 9:01 AM	EPL87	Main Yard groundwater downstream	13.78	41.4	4.27	903	578	7.34	172	268	Bore purged with submersible pump, no odour or sheen, turbid,	Low DO% and elevated EC within previously recorded data range.
16 May 2026, 9:46 AM	EPL88	Main Yard groundwater downstream	14.24	22.8	2.33	842	539	7.17	-133	28.2	Sulphuric odour, clear, no sheen	Low DO% and elevated EC within previously recorded data range. Turbidity is mentioned in the field notes.
16 May 2026, 12:09 PM	EPL89	Lick Hole Gully groundwater downstream	18.6	31.2	2.92	129	84	8.22	85	351	Water colum stratified, hydrasleeve half full, turbid, no odour or sheen, oil and grease not sampled due to limited water	Elevated pH and low DO% fall within historic records.Turbidity is noted in the field observations.
11 May 2026, 1:54 PM	EPL 90	GF01 groundwater downstream	15.7	79	7.85	161	105	6.64	200	2	Sunny day, no recent rain, clear water, no odour. QAs collected in this location. QA_LOBS_1, QA_LOBS_2.	Low DO% results are consistent with previous sampling rounds.
11 May 2026, 1:41 PM	EPL 91	GF01 groundwater downstream	17.11	18.3	1.76	167	108	6.94	185	22.7	Sunny day, no recent rain, clear water, no odour.	Low DO% results are consistent with previous sampling rounds.
11 May 2026, 2:09 PM	EPL 92	GF01 groundwater downstream	15.21	51.9	5.21	103	67	6.67	203	382	Sunny day, no recent rain, wet ground around sampling point, it is assumed water car was spraying recently, no odour, turbid water.	Low DO% results are consistent with previous sampling rounds. Turbidity is mentioned in the field observations.
11 May 2026, 2:19 PM	EPL 93	GF01 groundwater downstream	15.63	18.7	1.85	163	106	7.21	126	35	Sunny day, no recent rain, no odour, yellow/orange water colour, turbid water.	Low DO% results are consistent with previous sampling rounds. Turbidity is mentioned in the field notes.
11 May 2026, 2:29 PM	EPL 94	GF01 groundwater downstream	15.55	38.6	3.84	119	77	7.26	18	63.8	Sunny day, no recent rain, no odour, turbid water, bore appeared to be run over by a vehicle	Low DO% results are consistent with previous sampling rounds. Turbidity is mentioned in the field observations.
16 May 2026, 3:18 PM	EPL 95	GF01 groundwater downstream	16.26	11.5	1.13	541	346	6.25	262	46	Clear day. No recent rain. Water clear no odour.	These results are consistent with previous sampling rounds.
16 May 2026, 3:35 PM	EPL 97	GF01 groundwater downstream	16.27	76.6	7.51	351	228	6.87	183	45.7	Clear day. No recent rain. Water clear no odour.	Elevated EC and low DO% are consistent with previous sampling rounds. Water clarity is mentioned in the field notes.
17 May 2026, 10:27 AM	EPL103	Upstream groundwater monitoring west of the Tantangara emplacement area	12.47	36.5	3.89	32	21	6.71	265	19.1	Clear day. No recent rain. Water clear no odour.	This location is upgradient to construction works and not affected by the project. Low DO% is historically recorded at this location.

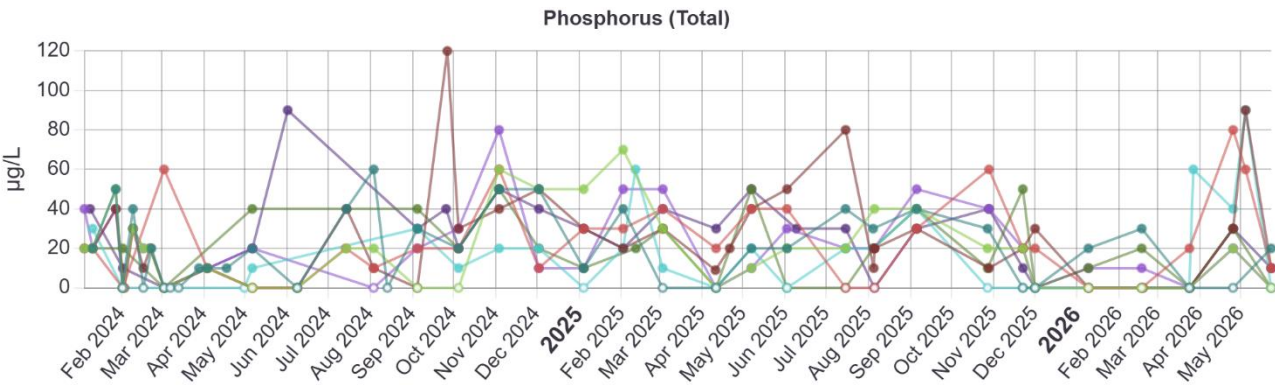
EPL 21266 In Situ Water Quality Measurements

EPL Monthly In-Situ Monitoring May 2026												
17 May 2026, 11:49 AM	EPL104	Dowslope groundwater monitoring east of the Tantangara emplacement area	13.17	27.6	2.9	36	24	6.08	285	60	Clear day. No recent rain. Water clear with no odour.	Low DO% and pH results are consistent with previous sampling rounds.
17 May 2026, 10:46 AM	EPL105	Dowslope groundwater monitoring west of the Tantangara emplacement area	12.67	51.5	5.47	111	72	6.07	284	10.1	Clear day. No recent rain. Water clear. No odour.	Low DO% and pH results are consistent with previous sampling rounds.
16 May 2026, 10:48 AM	EPL113	Upstream east monitoring of Ravine Bay emplacement area	13.49	33.6	3.5	89	58	7.33	199	58.9	Clear day. No recent rain. Water level high (780mm TOC). Water slight yellowy colour. Clear slimy substance on outside of hydrosleeve.	This location is upgradient to construction works and not affected by the project.
16 May 2026, 10:20 AM	EPL114	Upstream west monitoring of Ravine Bay emplacement area	13.53	27.7	2.89	294	191	7.69	121	7.2	Clear day. No recent rain. Water clear no odour.	This location is upgradient to construction works and not affected by the project.
16 May 2026, 11:24 AM	EPL115	Downstream east monitoring of Ravine Bay emplacement area	13.93	25.9	2.68	241	157	7.7	182	14.3	Clear day. No recent rain.	Low DO% and pH results are consistent with previous sampling rounds and considered background.
16 May 2026, 9:50 AM	EPL116	Downstream west monitoring of Ravine Bay emplacement area	14.32	57.5	5.88	97	63	7.07	52	279	Clear day. No recent rain. Sediment in base of sleeve. No odour.	These results are consistent with previous sampling rounds. Turbidity is noted in the field observations.
16 May 2026, 9:17 AM	EPL117	Downstream monitoring of Ravine Bay emplacement area	13.86	24.1	2.49	98	64	7.11	1	94	Clear day. No recent rain. Water clear no odour.	Low DO% results are consistent with previous sampling rounds. Water clarity is noted in the field observations.
8 May 2026, 10:27 AM	EPL123	Upgradient west of the Rock Forest PSE	11.77	83.6	9.06	19	12	6.21	233	1000	Partially cloudy day, no rain, no odour, turbid water, orange sediment at the based of hydrasleeve.	This location is upgradient to construction works and not affected by the project.
8 May 2026, 10:41 AM	EPL124	Upgradient (NE) of the Rock Forest PSE	12.66	62.7	6.65	17	11	5.49	273	1000	Partially cloudy day, no rain, turbid water, sediment at the base of hydrasleeve, no odour	This location is upgradient to construction works and not affected by the project.
8 May 2026, 10:10 AM	EPL125	Downgradient (S) of the Rock Forest PSE	11.84	85.8	9.28	71	46	6.17	252	1000	Partially cloudy day, no rain, orange/yellow sediment at the end of hydrasleeve, no odour.	Low DO% results are consistent with previous sampling rounds. Water clarity is noted in the field observations.
8 May 2026, 9:57 AM	EPL126	Downgradient (SE) of the Rock Forest PSE	10.89	85.3	9.43	267	173	7.39	86	1000	Partially cloudy day, no raining, milky water colour, no odour, signs of animal activity around sampling point.	Low DO% results are consistent with previous sampling rounds. Water clarity is noted in the field observations.
8 May 2026, 9:40 AM	EPL127	Downgradient of the Rock Forest PSE.	10.53	46.2	5.15	100	65	7.14	248	133	Partially cloudy day, no raining at the time of sampling, clear water, no odour, signs of animal activity around sampling point	Low DO% results are consistent with previous sampling rounds. Water clarity is noted in the field observations.

Annexure C – TREND GRAPHS

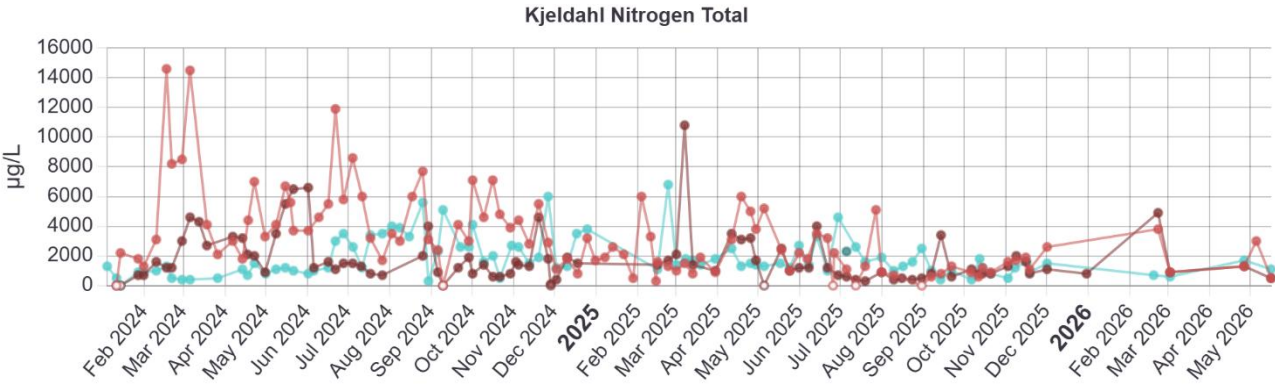
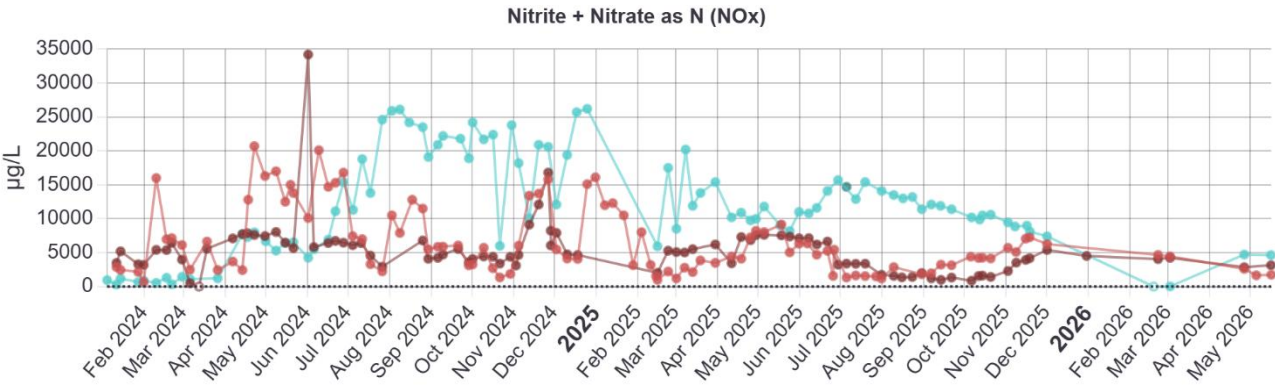
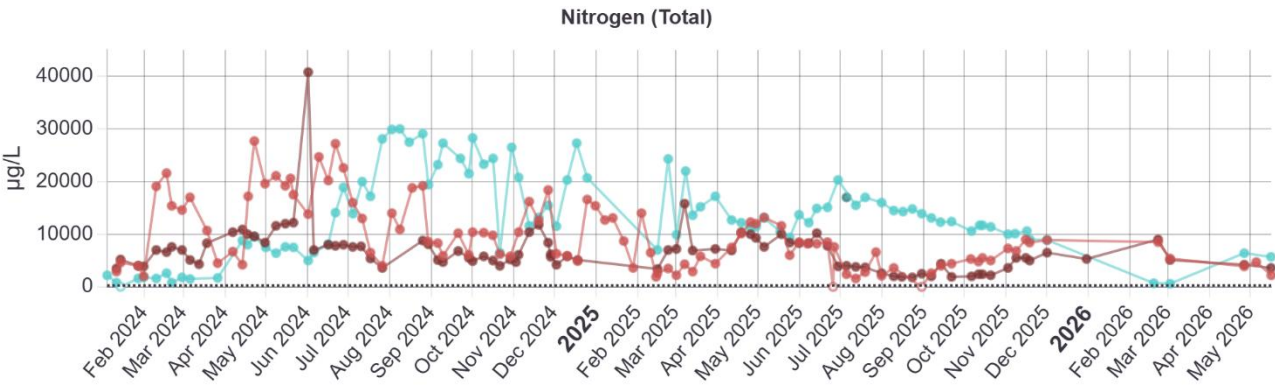
Lobs Hole - Yarrangobilly River Monitoring Zone

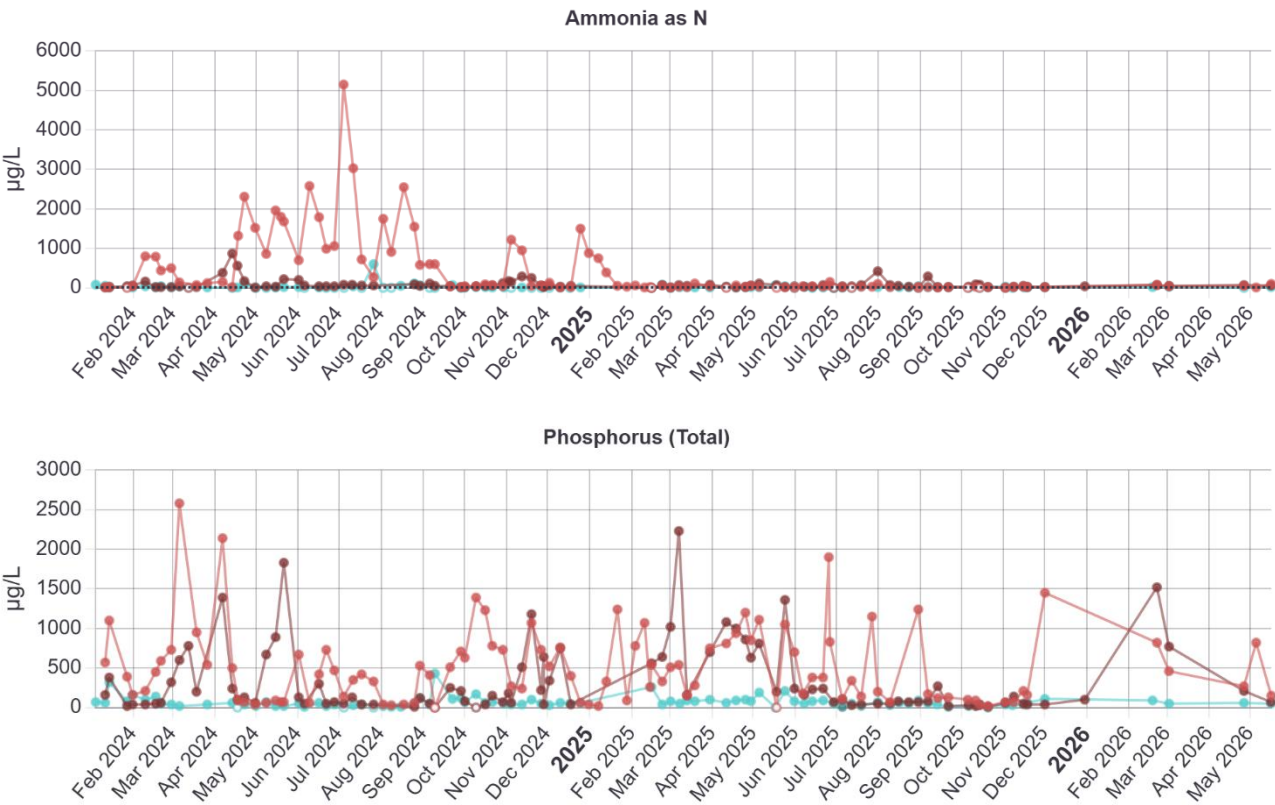




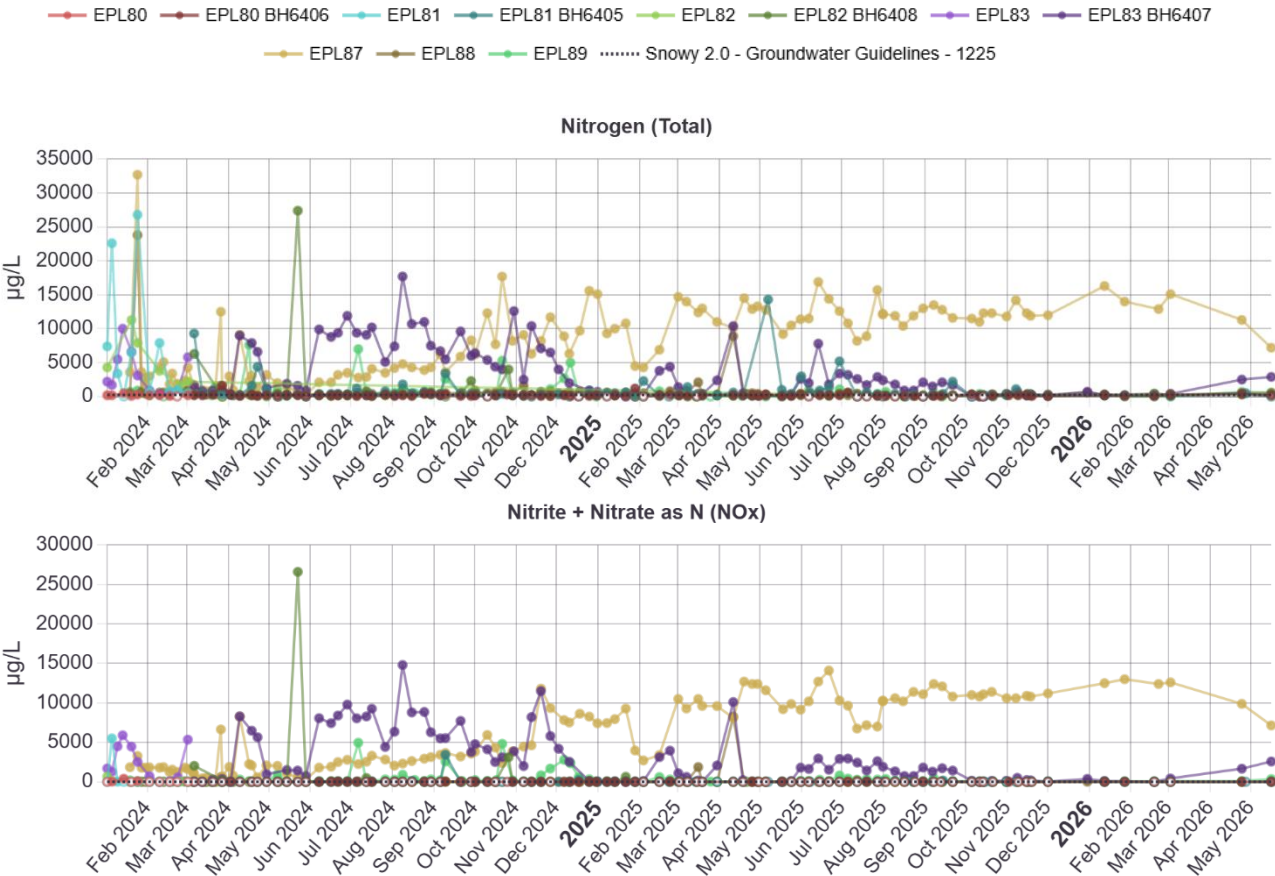
Lobs Hole – Main Yard Surface Water Trends

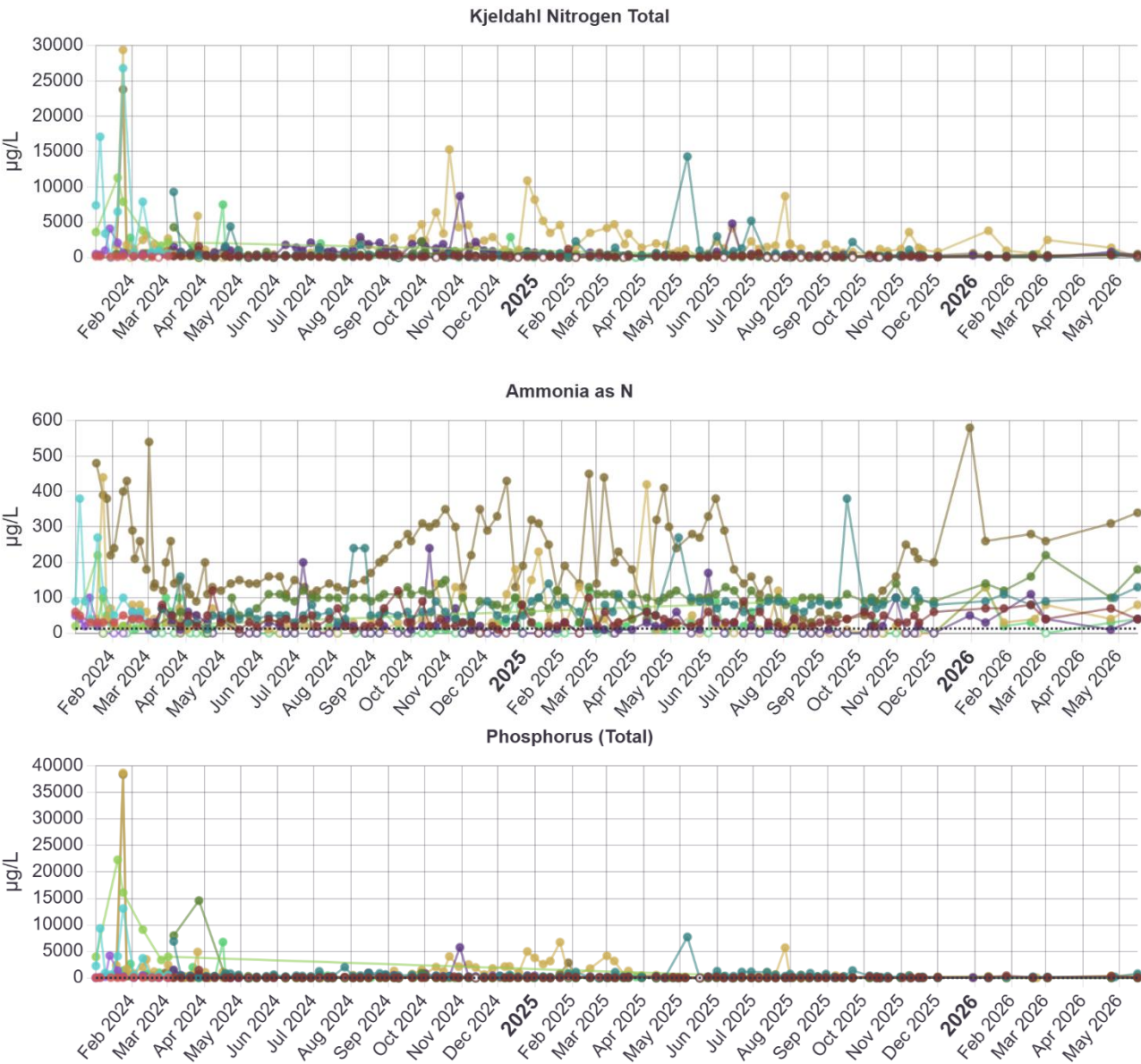
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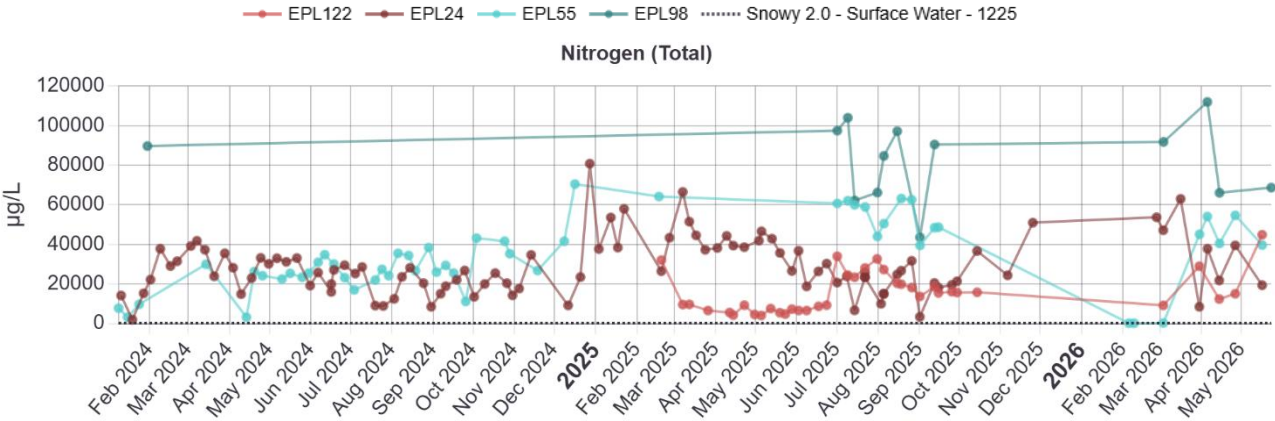


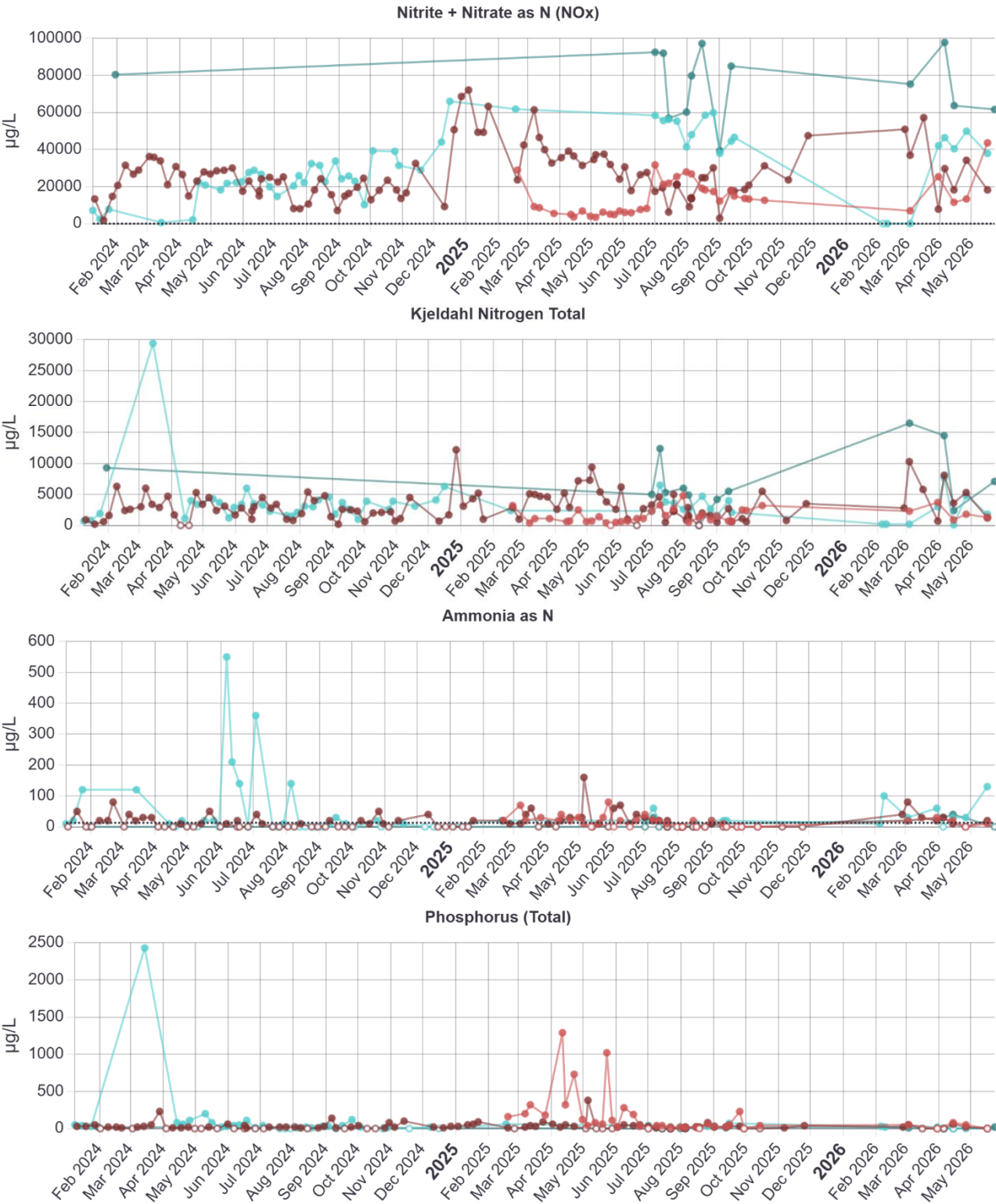
Lobs Hole - Main Yard Groundwater





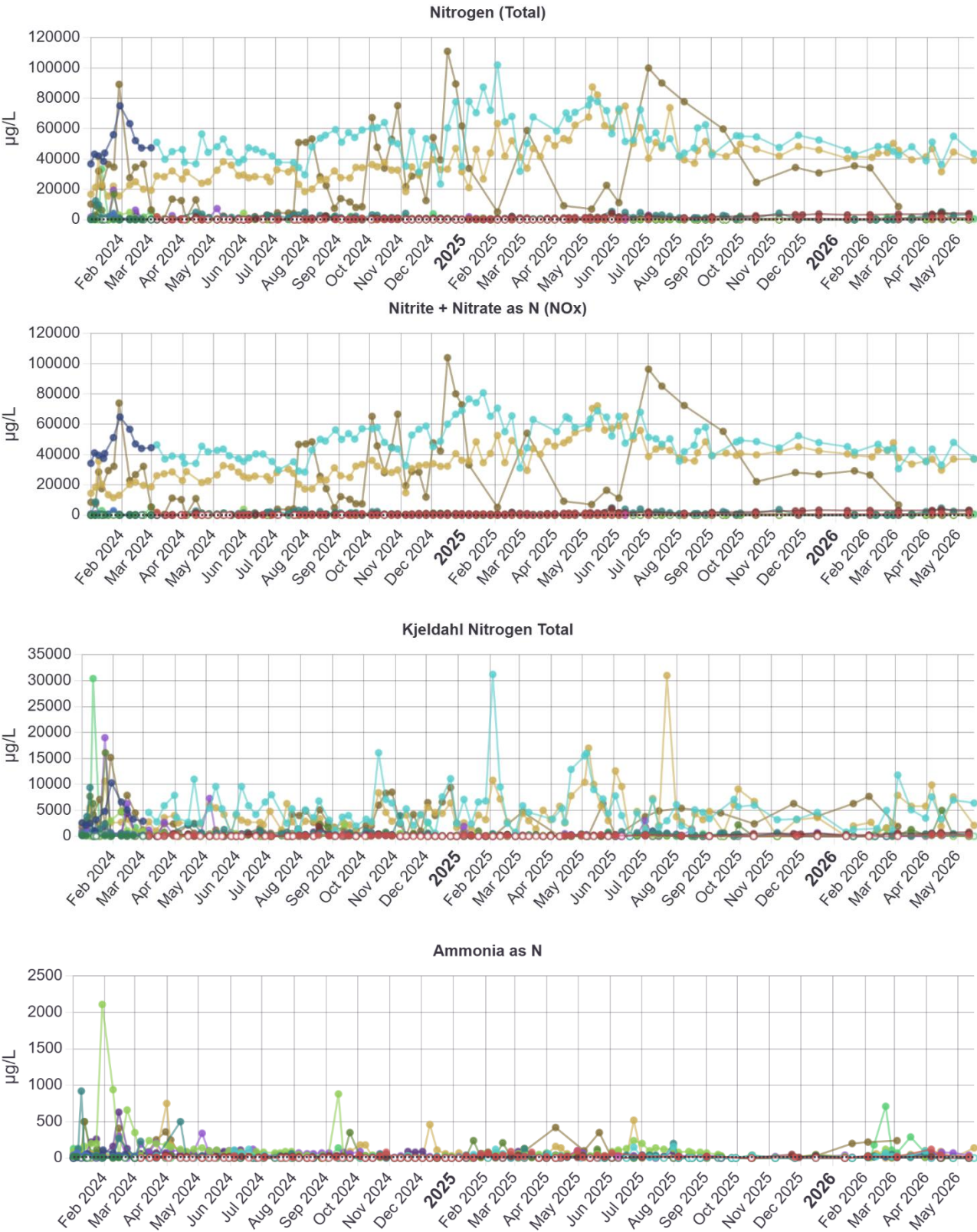
Lobs Hole – GF01 Surface Water

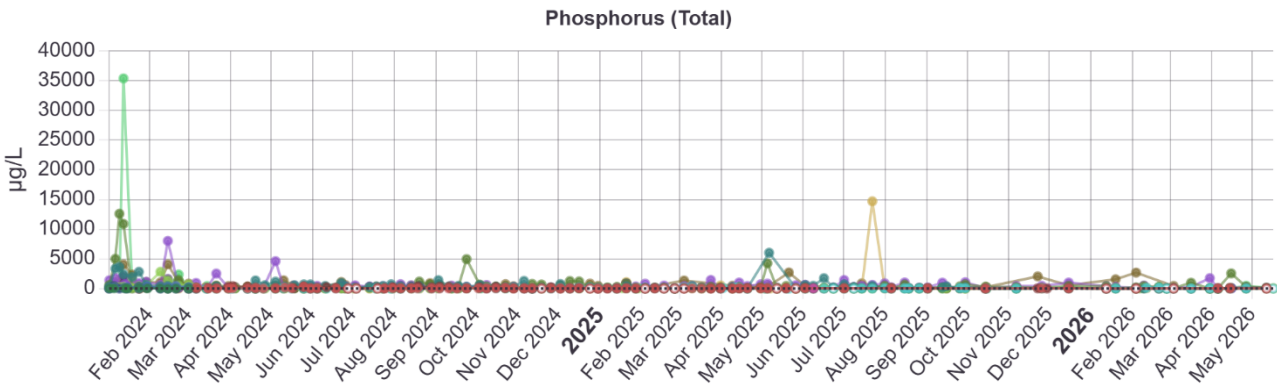




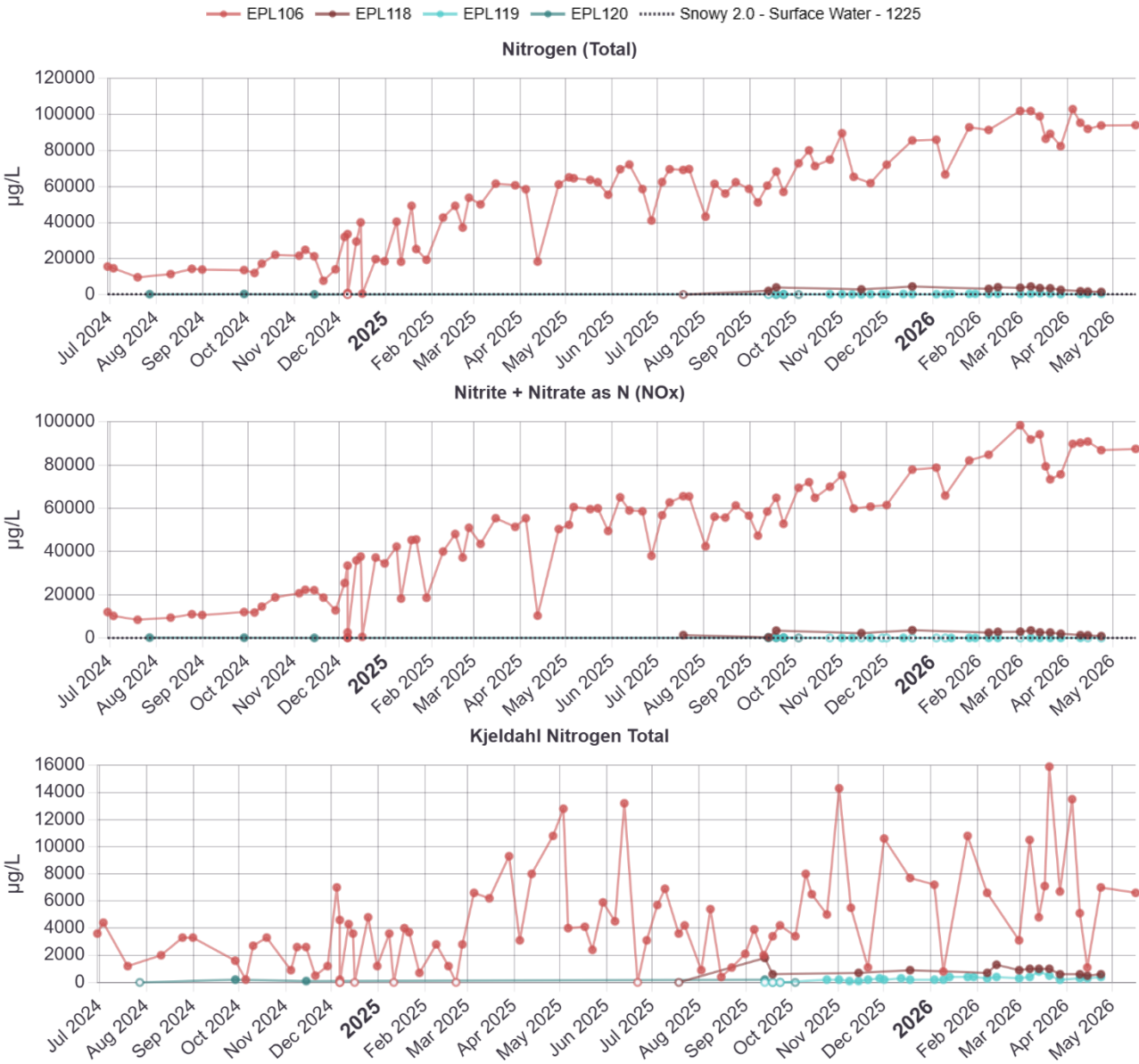
Lobs Hole – GF01 Groundwater

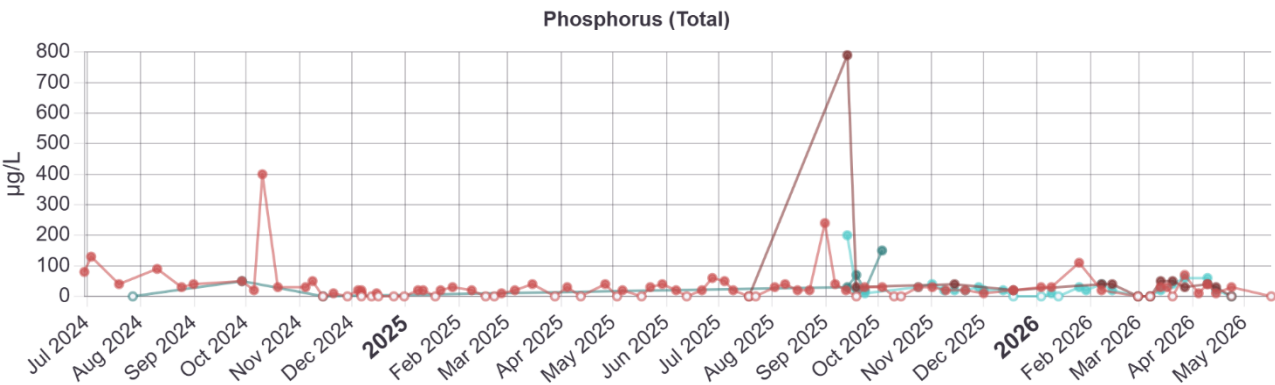
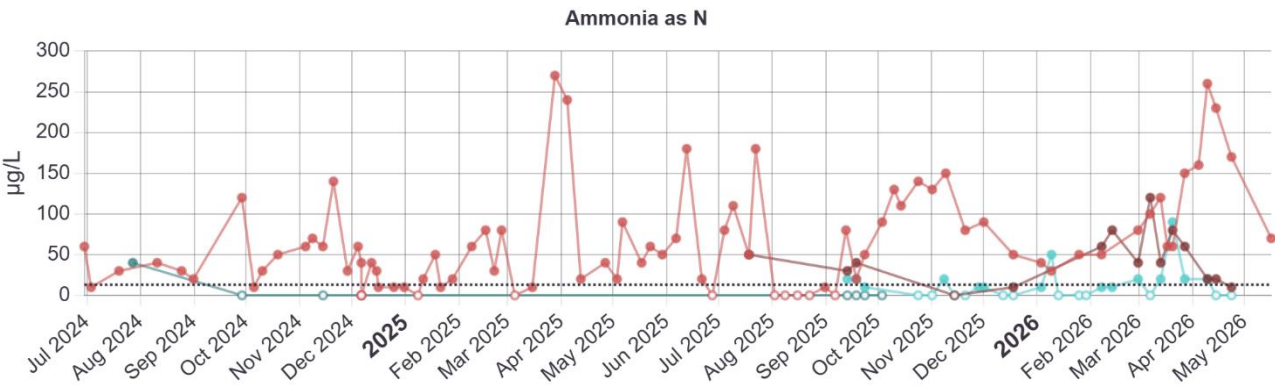
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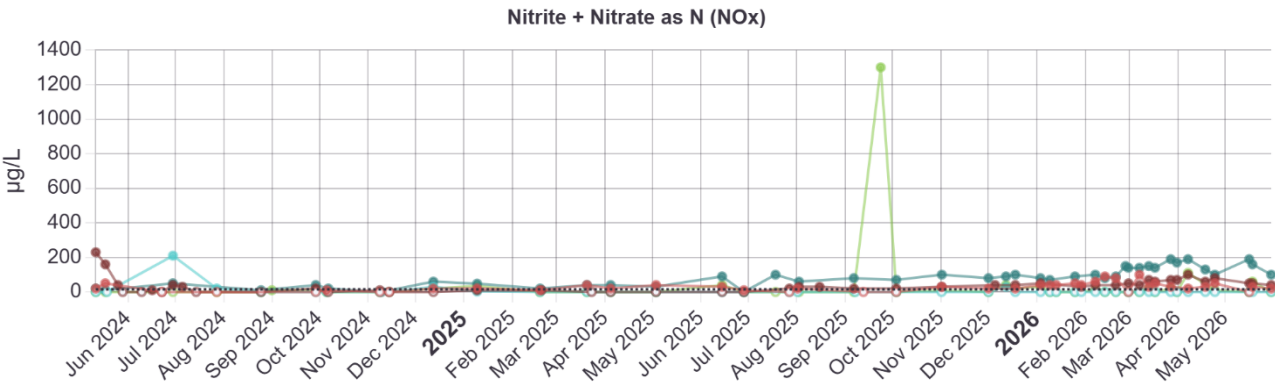
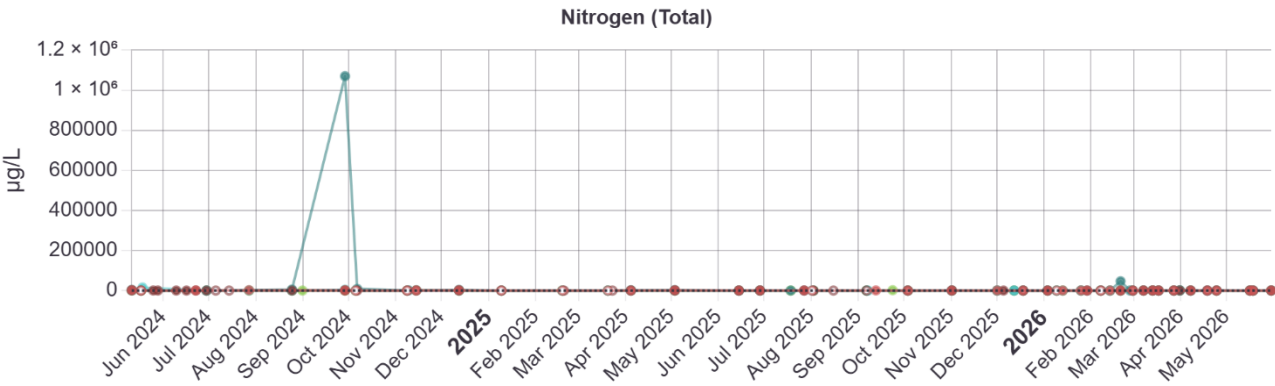


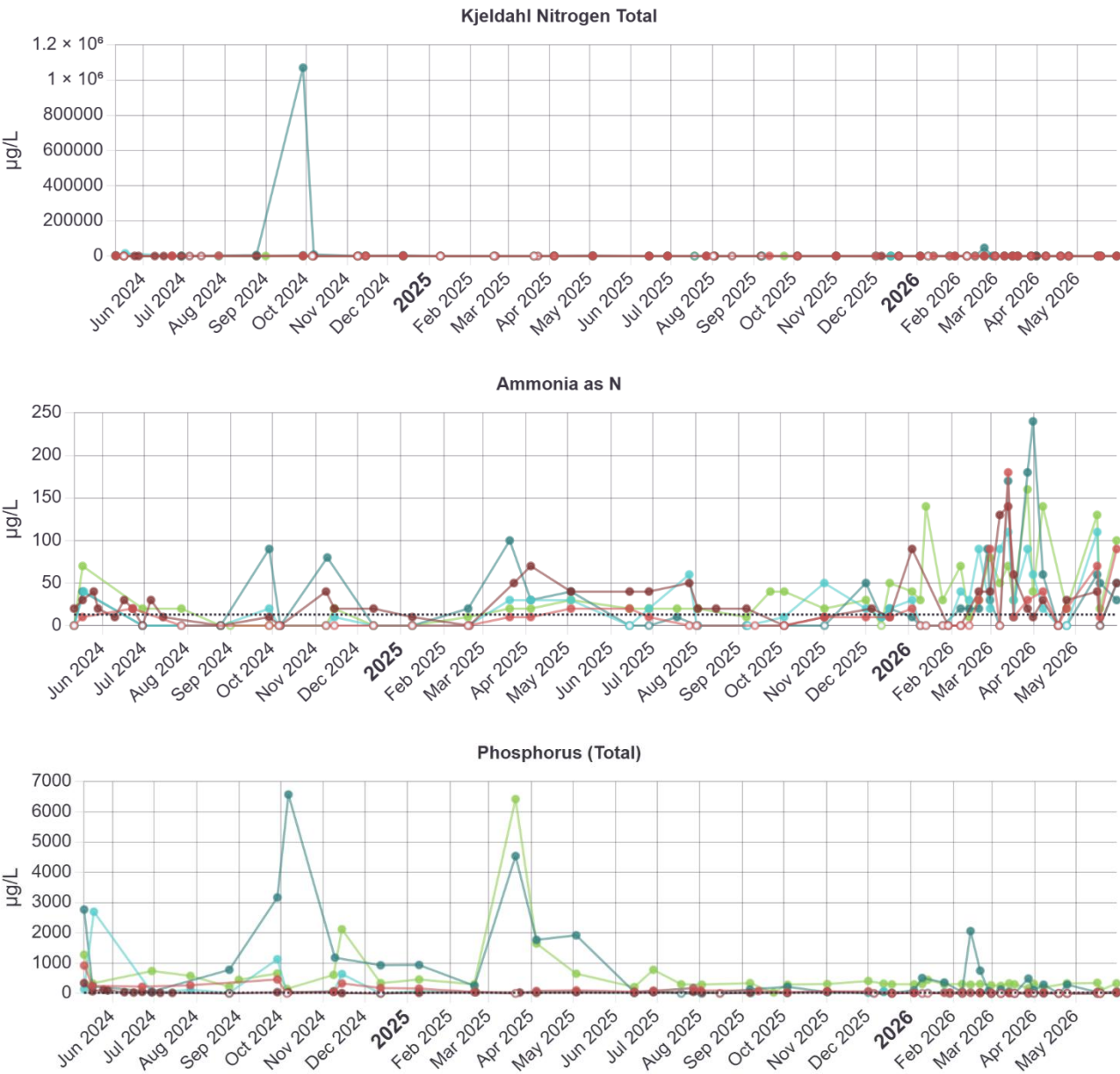
Lobs Hole – Ravine Bay Surface Water



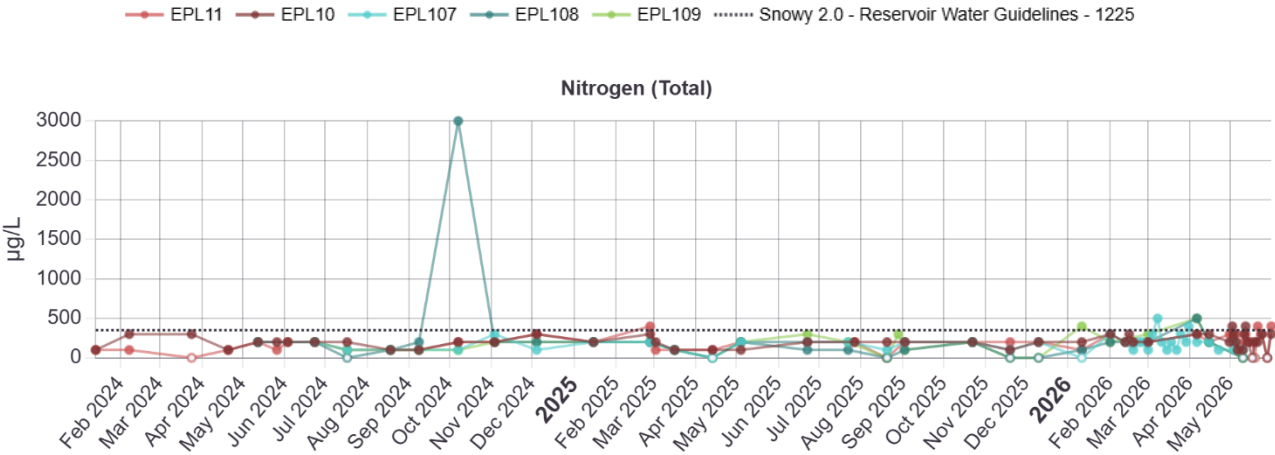


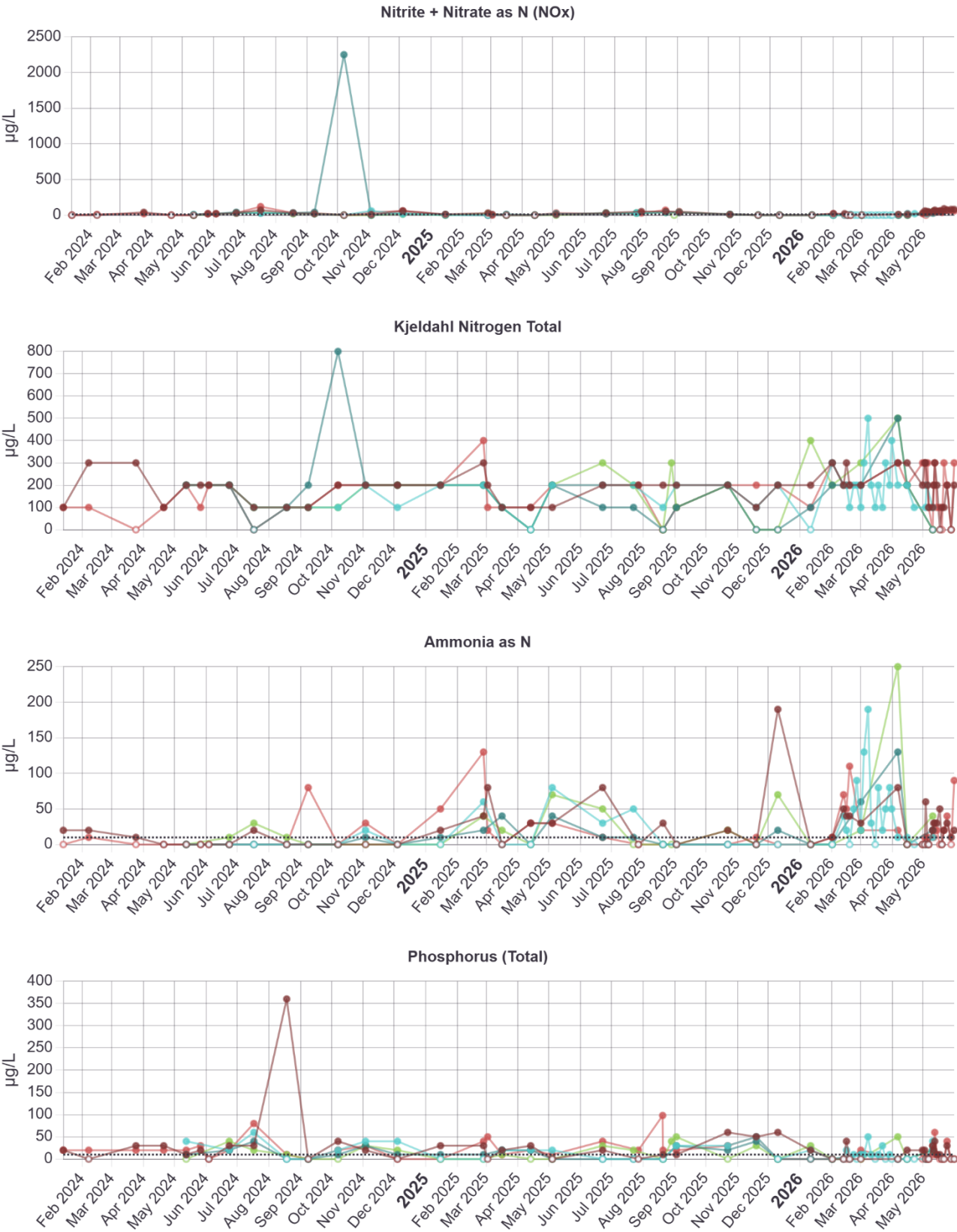
Lobs Hole – Ravine Bay Groundwater



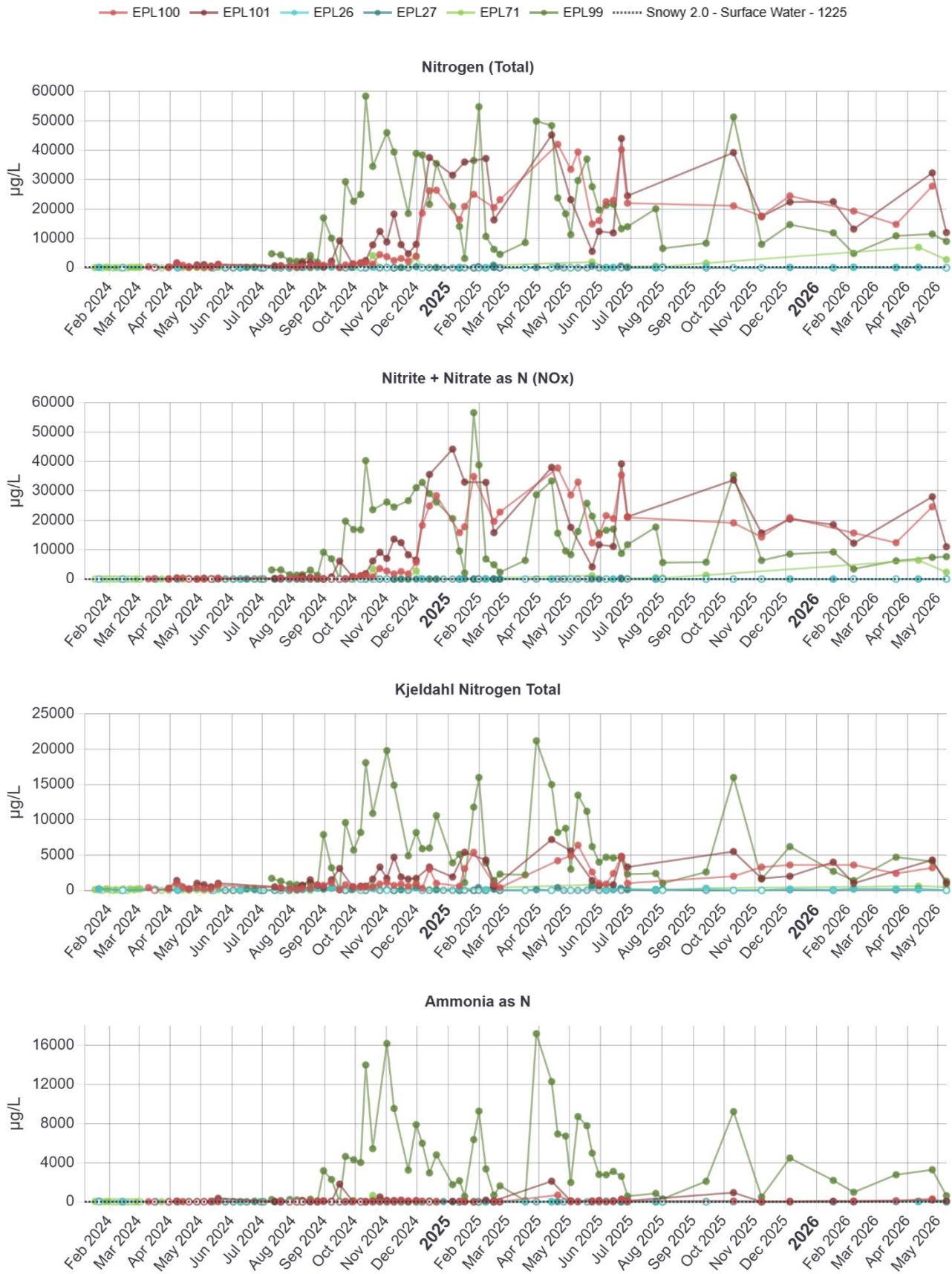


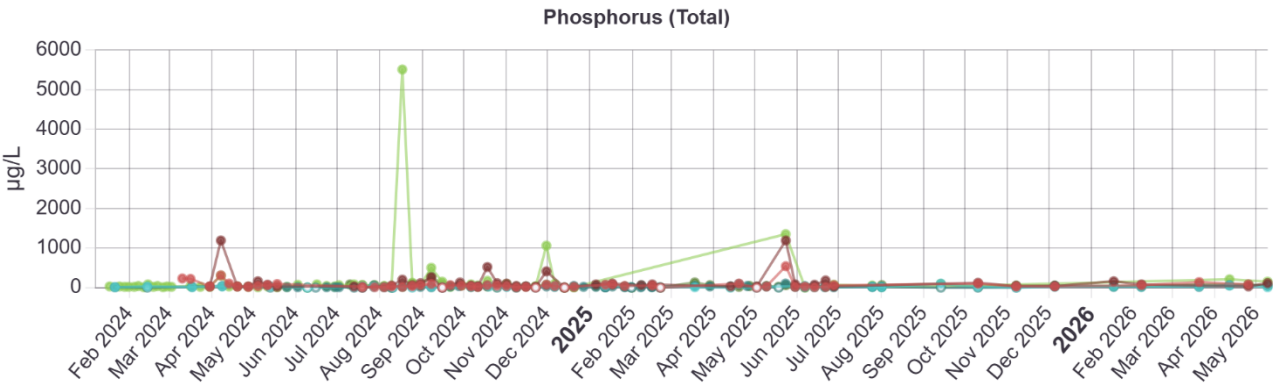
Lobs Hole – Talbingo Reservoir



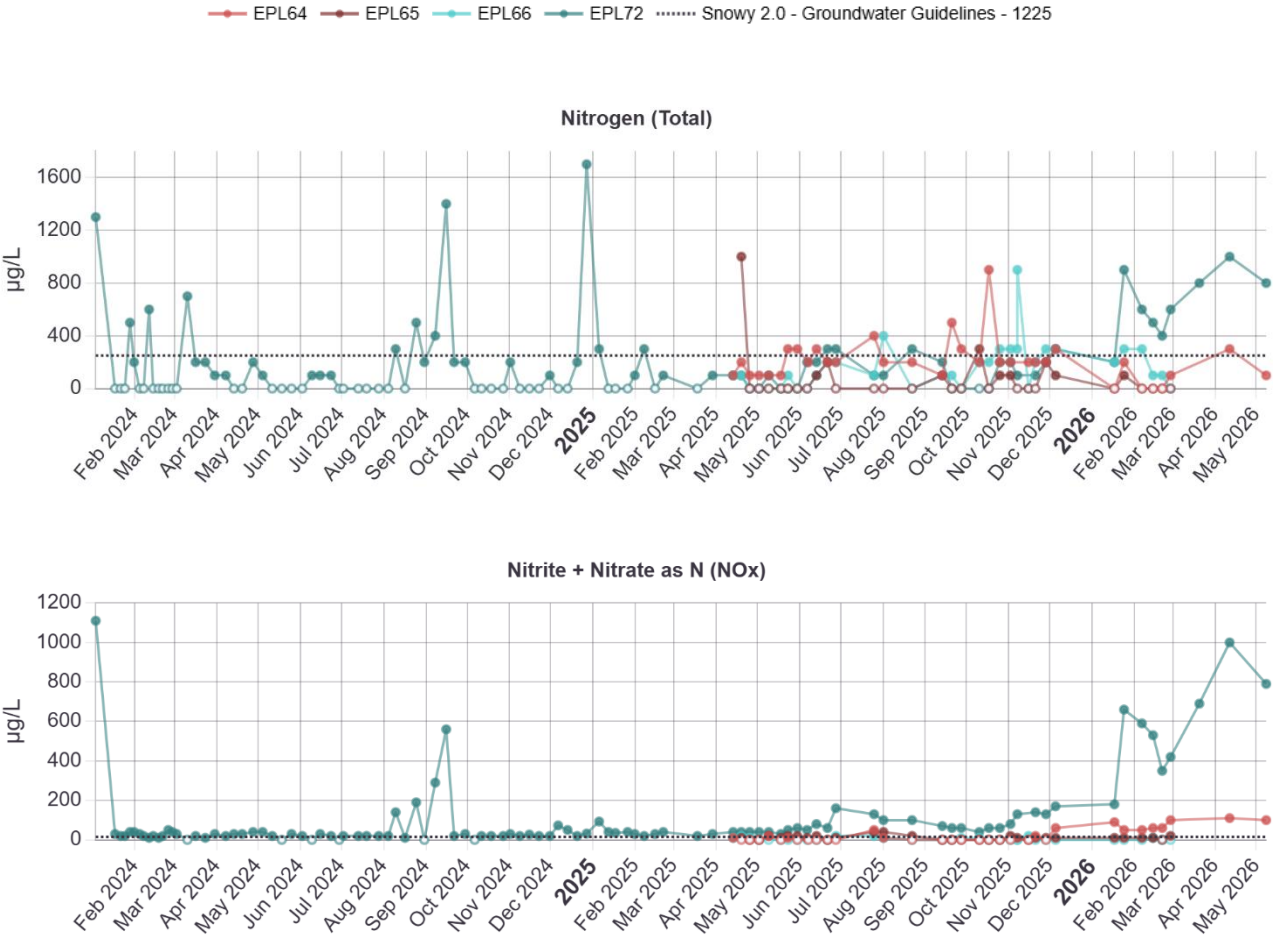


Marica – Surface Water





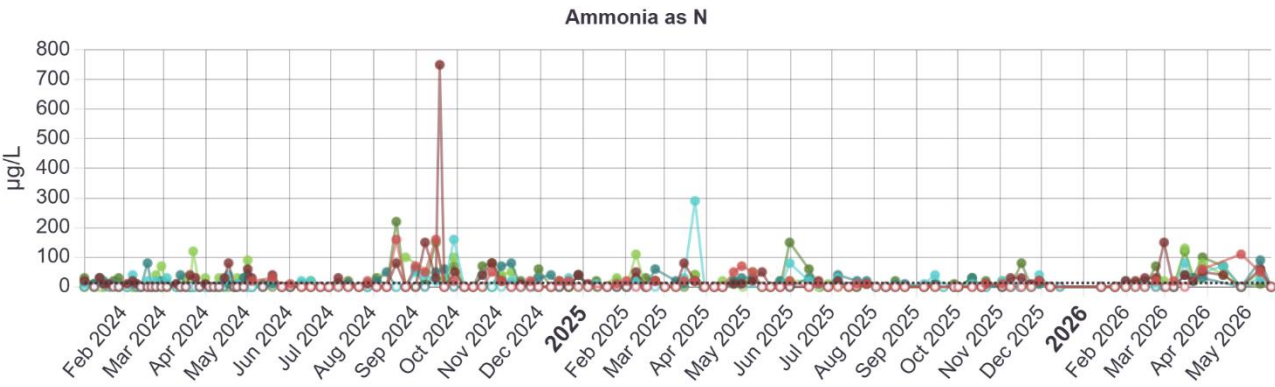
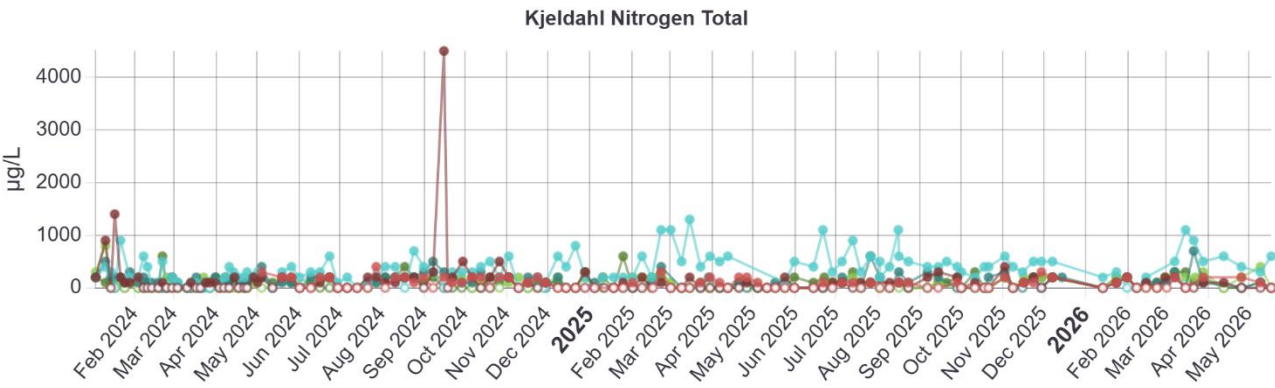
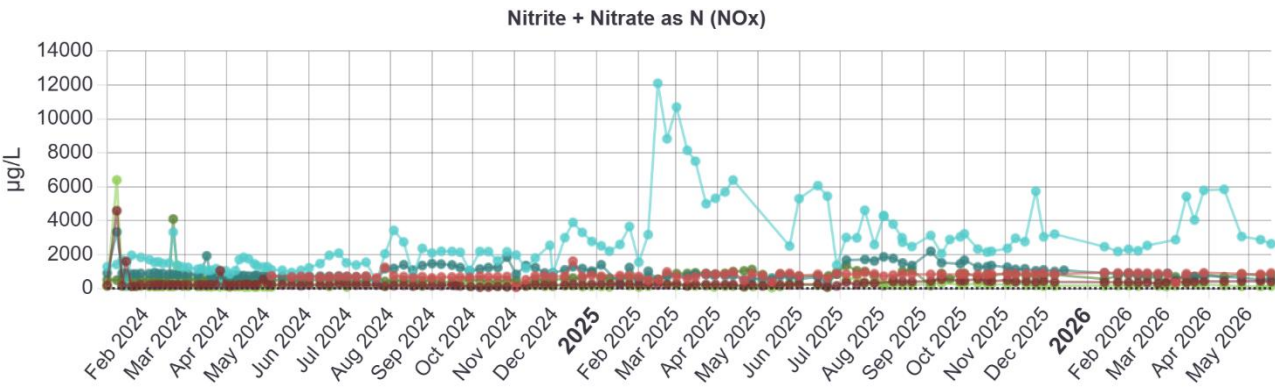
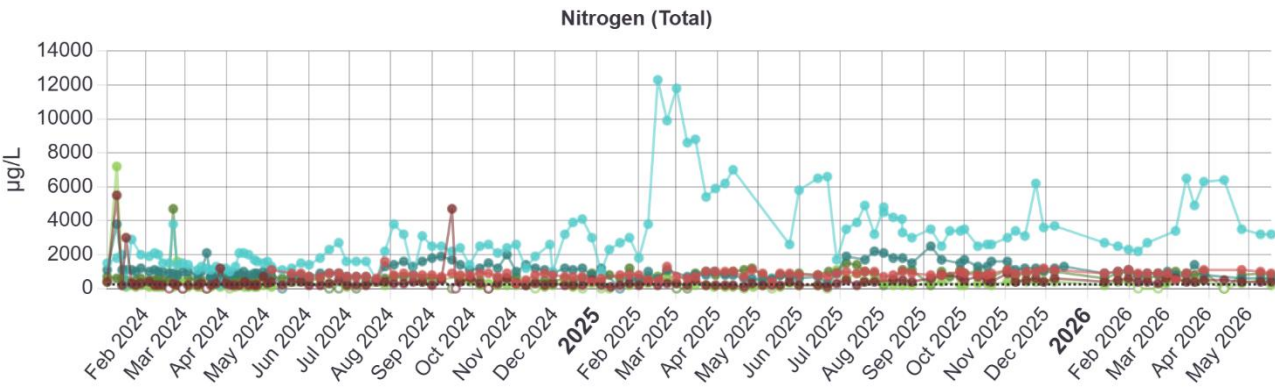
Marica – Groundwater

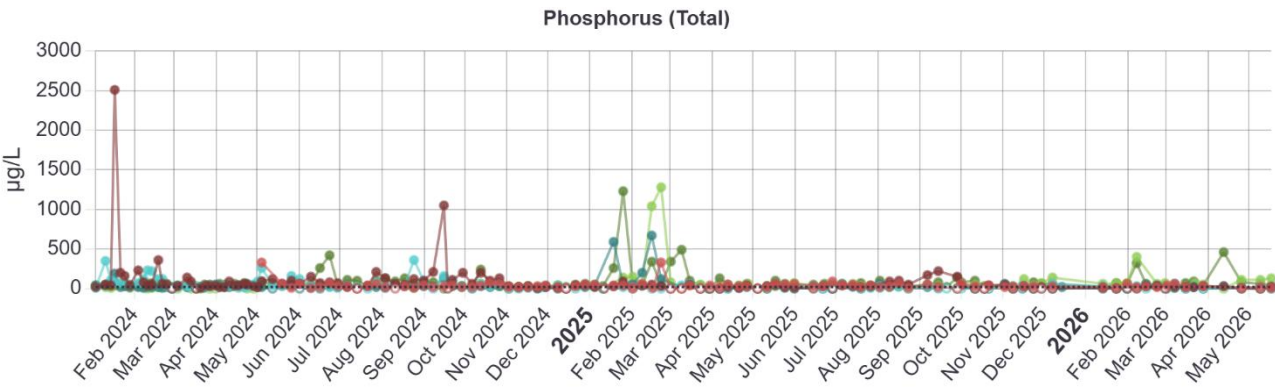




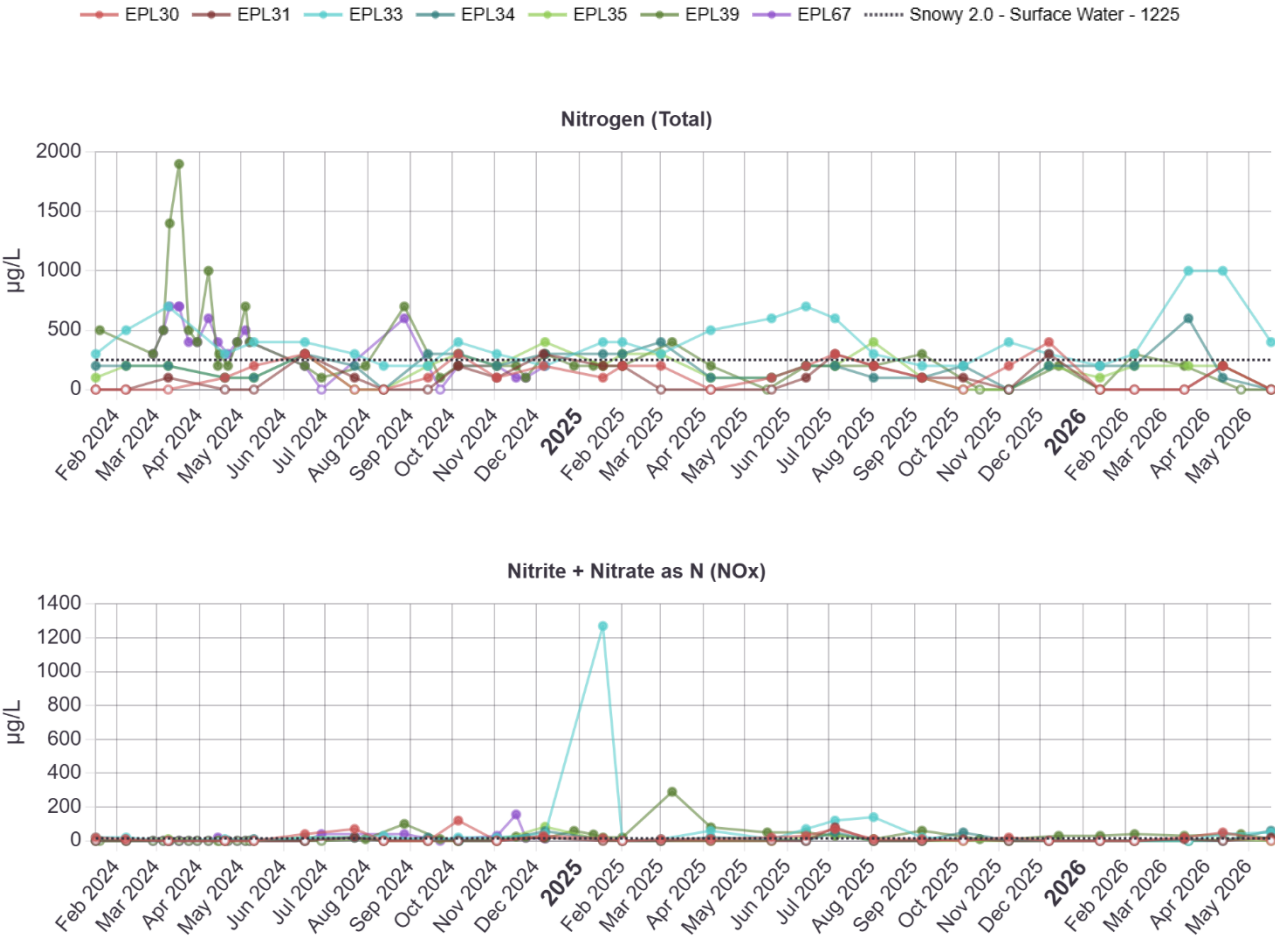
Tantangara – Groundwater

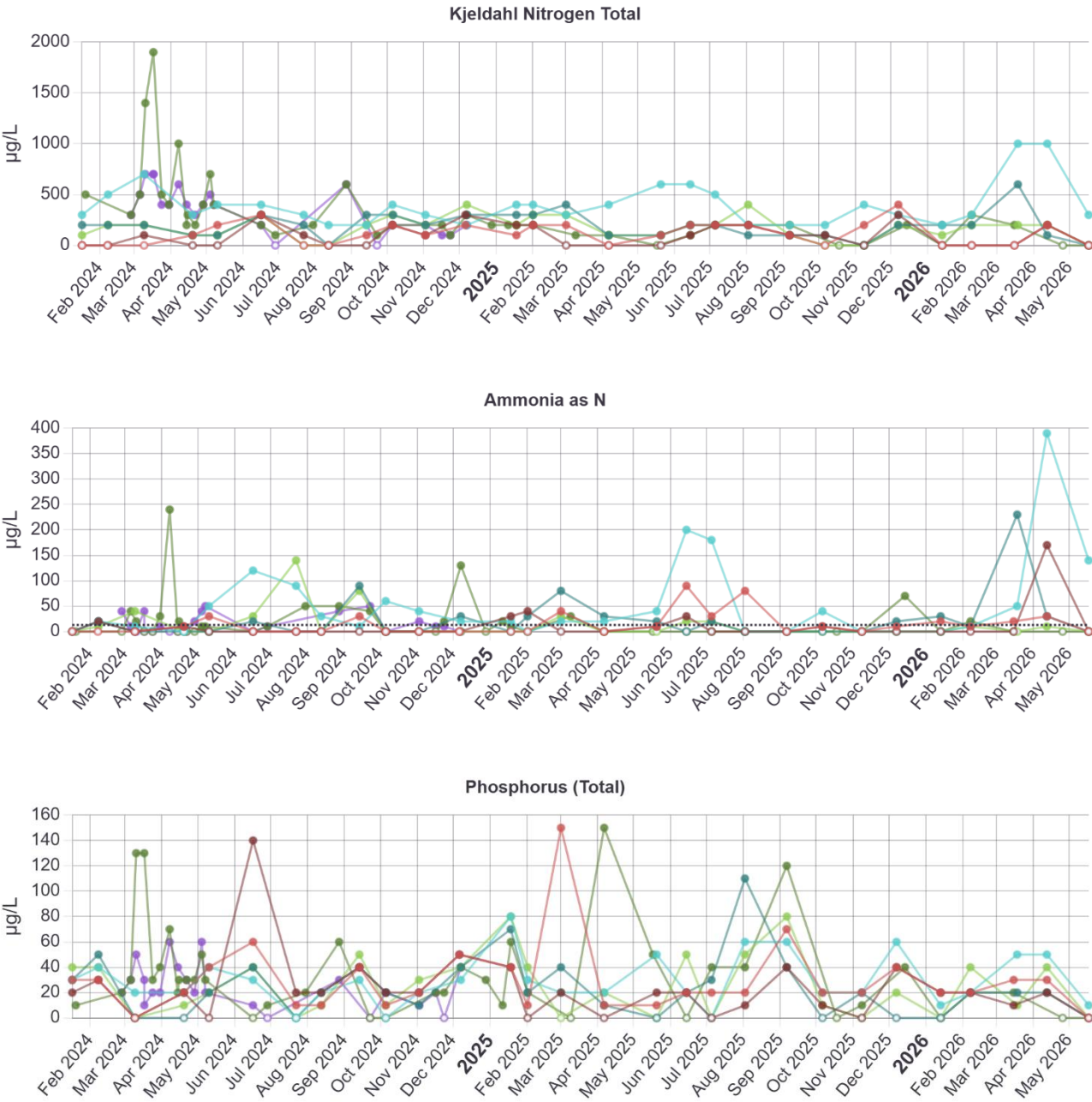
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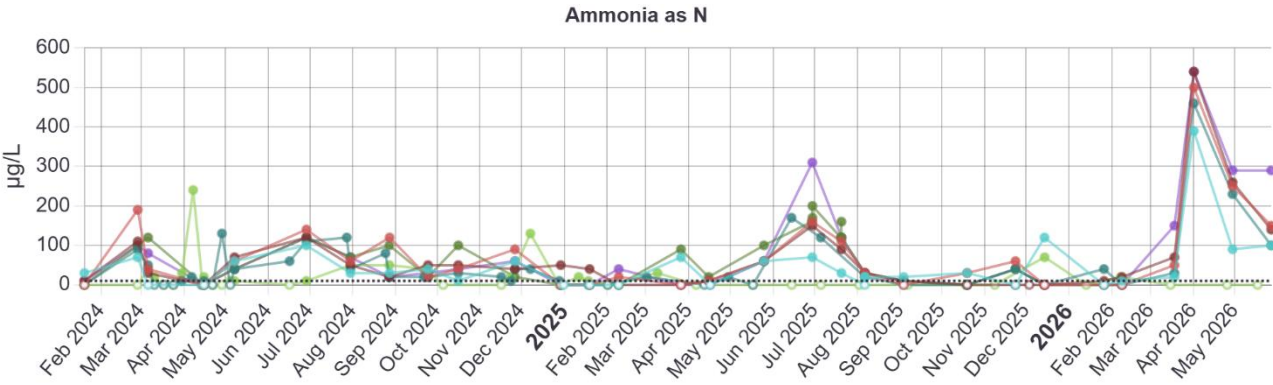
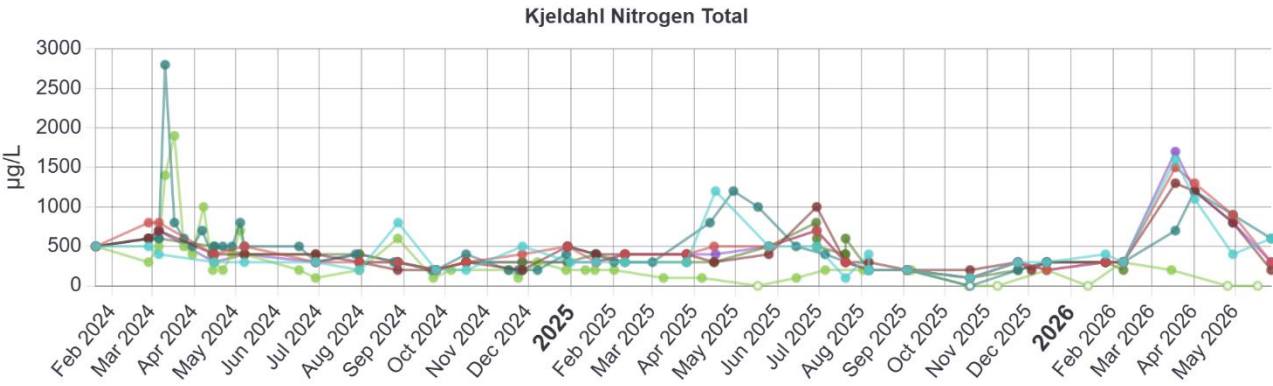
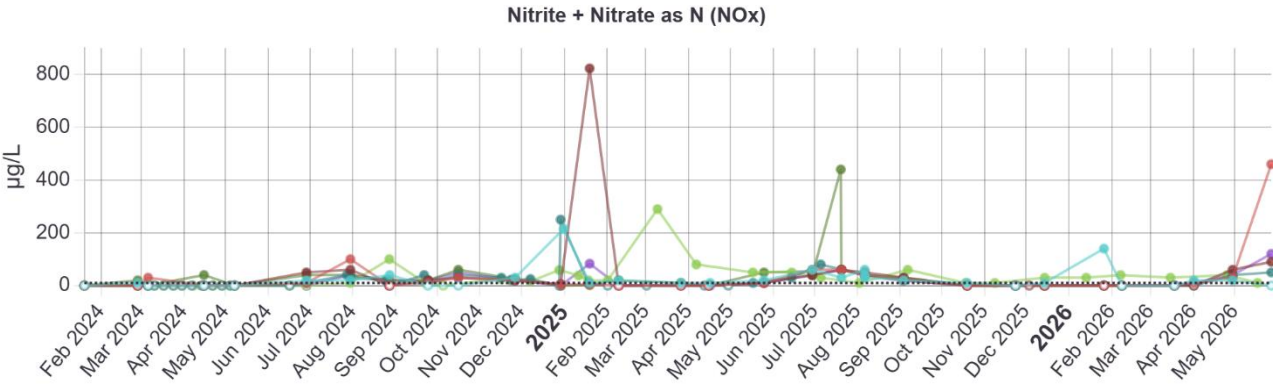
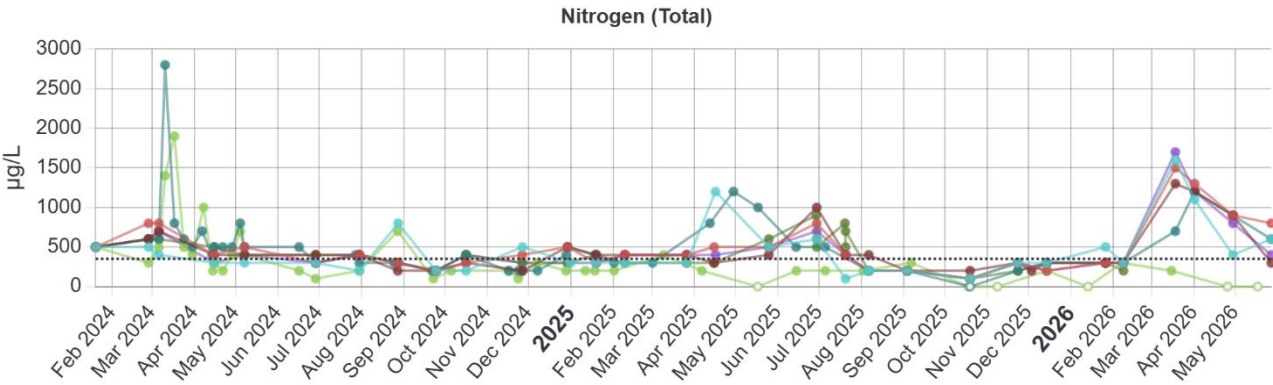
Tantangara – Creeks and Rivers

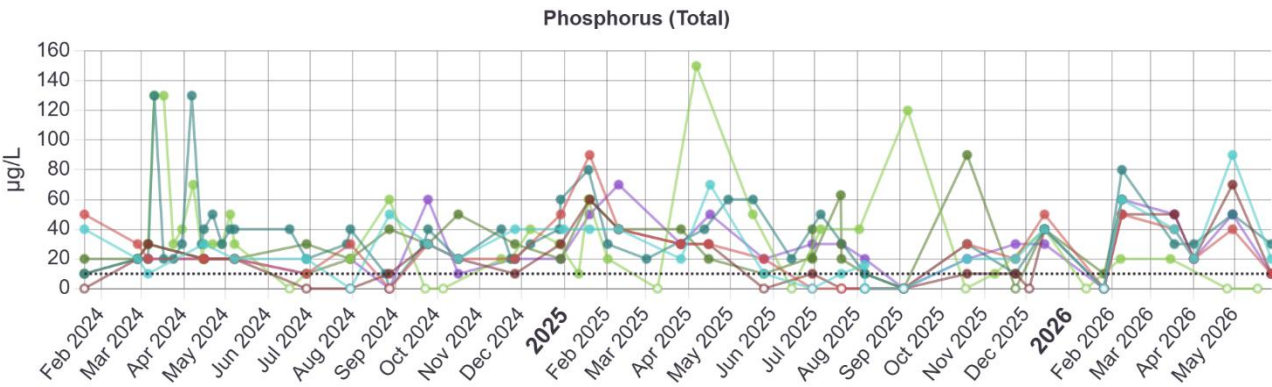




Tantangara Reservoir

EPL29 EPL32 EPL28 EPL38 EPL39 EPL46 EPL51 Snowy 2.0 - Reservoir Water Guidelines - 1225





Rock Forest – Surface Water

