



Snowy Hydro 2.0 Main Works EPL Sampling: 01 - 31 January 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 Approval Conditions, Environmental Protection Licence No 21266 - Variation 20 December 2024, and the approved Water Management Plan to ensure that works are not impacting on nearby receiving waters.

A map showing the location of each of the EPL named sampling points is provided after the results tables.

Surface Water Results: Surface Water monitoring results indicate sporadic exceedances throughout the reporting period. These results are likely attributed to fluctuations in water levels, which influences water temperatures and reduces flow velocity across the surface water managent stream. Minor exceedances in parameters like phosphorus and nutrients were observed, which are considered to be influenced by the aforementioned conditional settings. Elevated nutrient concentrations were primarily observed in leachate basin locations and will be discussed further in the dedicated leachate results section.

Reservoir Results: Minor exceedances in parameters such as phosphorus, metals, and nutrients were observed. Notwithstanding these exceedances, likely attributed to a combination of decreased water levels, high surface temperatures, elevated suspended solids that were observed during sampling. These influences are considered to have impacted results for january.

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. There were no discharges during January at Talbingo and Tantangara. However, if the water met reuse criteria, the water was reused.

Groundwater Results: Throughout January 2025, pH and other such analytes exceedances were observed at both upstream and downstream monitoring locations at all three sites. The observed results are likely attributed to seasonal variation of environmental inputs (for example, an extended period of no rainfall). Minor exceedances in metals and total nitrogen concentrations were also observed, particularly near spoil emplacement areas, with higher exceedances observed downstream of the GF01 emplacement. Additional measures such as groundwater extraction and transportation for treatment, spoil emplacement permit reviews and management strategy reviews are underway. FGJV remains committed to implementing all necessary actions to minimize environmental impacts.

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 such water.

The publication of this pollution monitoring data is carried out in accordance with section 66 (6) of the Protection of the Environment Operations Act 1997 (NSW).

Snowy Hydro Limited gives no warranty or representation regarding the data suitability for any particular purpose.

Snowy Hydro Limited excludes all liability to any person for loss or damage of any kind (however caused, including but not limited to by negligence) arising whether directly or indirectly from or relating in any way to the use of this data, whether in whole or in part.



Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01-31 January 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 (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	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	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^
Biochemical Oxygen Demand	mg/L	2	1/5^

EPL10	EPL11	EPL28	EPL29	EPL32	EPL38	EPL39	EPL40	EPL46	EPL51	EPL107	EPL108	EPL109
15/1/25	15/1/25	19/1/25	19/1/25	19/1/25	18/1/25	18/1/25	4/1/25	19/1/25	19/1/25	4/1/25	19/1/25	19/1/25
7.62	7.97	7.76	7.1	7.52	7.63	7.53	7.29	6.95	7.1	8.16	8.17	6.97
97	79	30	25	26	38	27	22.4	26	25	49	43	85
184	177	212	241	-48	200	201	199.1	244	238	170	169	175
25.85	25.2	18.28	19.19	18.94	18.47	14.94	24.8	19.01	19.01	24.24	23.75	23.04
63.5	63.7	109.1	92.4	91.9	74.6	90	100	90	91	71.8	69.4	81.3
0	1	8.6	8.9	7.1	30.6	9.6	4.13	6.3	7.4	3.1	3.4	6.3
<5	<5	<5	<5	<5	34	<5	<5	<5	5	<5	<5	17
43	38	9	9	9	9	13	9	9	<1	17	14	14
20	50	<10	<10	40	<10	10	10	<10	<10	<10	10	<10
<10	5	<2	4	<10	8	10	4	2	<10	<2	8	<2
200	200	300	300	400	400	200	300	400	300	200	200	200
200	200	300	300	400	400	200	300	400	300	200	200	200
2	<1	4	1	4	3	3	4	4	4	5	2	2
30	<10	40	90	60	80	60	50	60	50	<10	10	<10
<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
<5	<5	30	30	30	31	27	25	30	33	6	<5	<5
0.5	0.3	0.3	0.3	0.3	0.3	<0.2	<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	<0.2	<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	<0.5
36	16	278	273	280	285	161	77	278	310	6	6	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	<0.1
2.0	<0.5	1.6	1.7	1.6	2.0	4.5	5.7	1.7	1.8	<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
<0.01	<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
590	2,700	100	-	-	-	-	-	-	80	-	-	-
<2	<2	3	-	-	-	-	-	-	<2	-	-	-

* Water Quality Objective values for Talbingo and Tantangara Reservoir refer to the default trigger values for physical and chemical stressors in south-east Australia (fresh lakes and reservoirs) for the protection of 95% of aquatic species ANZECC / ARMCANZ (2000), they are not pollutant limits imposed by EPL 21266.

** Algal blooms can present as faecal coliforms

^ 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 January 2025 - 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	-	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 (filtered)	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	µg/L	10	200/2000 [^]
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	No Water Quality Objective Value
Phosphorus (Total)	µg/L	10	100/300 [^]
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	5

EPL 41	EPL 43	EPL 44	EPL 45	EPL 47	EPL 48	EPL 49	EPL 50
22/01/2025							22/01/2024
-	0.0000	0.3858	0.0478	0.2103	0.0889	0.7156	-
-	-	-	-	-	-	-	-
6.92	-	-	-	-	-	-	7.44
161	-	-	-	-	-	-	60.7
170	-	-	-	-	-	-	176.5
25.46	-	-	-	-	-	-	20.4
63.1	-	-	-	-	-	-	87.2
20	-	-	-	-	-	-	22.49
<5	-	-	-	-	-	-	<5
<1	-	-	-	-	-	-	<1
3,030	-	-	-	-	-	-	200
310	-	-	-	-	-	-	220
5,200	-	-	-	-	-	-	600
5,500	-	-	-	-	-	-	800
<1	-	-	-	-	-	-	<1
10	-	-	-	-	-	-	20
<4	-	-	-	-	-	-	<4
<1.0	-	-	-	-	-	-	<1.0
6	-	-	-	-	-	-	<5
<0.2	-	-	-	-	-	-	<0.2
<0.2	-	-	-	-	-	-	<0.2
<0.5	-	-	-	-	-	-	<0.5
<2	-	-	-	-	-	-	<2
<0.1	-	-	-	-	-	-	<0.1
<0.5	-	-	-	-	-	-	1.1
<0.5	-	-	-	-	-	-	<0.5
<0.01	-	-	-	-	-	-	<0.01
<1	-	-	-	-	-	-	1
<1	-	-	-	-	-	-	<1
<2	-	-	-	-	-	-	<2

Note: Treated water was not being discharged at Talbingo Reservoir at the time of EPL sampling.

There is no 100th percentile limit for Nitrogen (Total).

* 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.

- Samples not required

[^] 90 Percentile concentration limit/100 Percentile limit

[#] Inflows to STP and CWTP do not directly correspond to outflow at RO as much of the water is reused on site



[illegible]

Date
1/01/2025
2/01/2025
3/01/2025
4/01/2025
5/01/2025
6/01/2025
7/01/2025
8/01/2025
9/01/2025
10/01/2025
11/01/2025
12/01/2025
13/01/2025
14/01/2025
15/01/2025
16/01/2025
17/01/2025
18/01/2025
19/01/2025
20/01/2025
21/01/2025
22/01/2025
23/01/2025
24/01/2025
25/01/2025
26/01/2025
27/01/2025
28/01/2025
29/01/2025
30/01/2025
31/01/2025

EPL 44	EPL 45	EPL 47	EPL 48	EPL 49
Discharge volume (Megalitres)				
0.40	0.04	0.15	0.05	0.62
0.43	0.03	0.15	0.07	0.85
0.62	0.04	0.18	0.06	0.62
0.47	0.05	0.16	0.07	0.89
0.29	0.01	0.18	0.07	0.72
0.51	0.04	0.19	0.08	0.52
0.27	0.05	0.13	0.06	0.69
0.57	0.03	0.32	0.07	0.42
0.37	0.05	0.14	0.06	0.85
0.72	0.07	0.17	0.07	0.60
0.28	0.05	0.20	0.07	0.55
0.34	0.05	0.24	0.08	0.54
0.54	0.05	0.20	0.09	0.71
0.40	0.05	0.34	0.08	0.90
0.61	0.08	0.19	0.18	0.86
0.49	0.01	0.23	0.18	0.65
0.67	0.05	0.19	0.08	0.63
0.58	0.04	0.15	0.08	0.72
0.65	0.06	0.21	0.07	0.57
0.26	0.07	0.23	0.08	0.63
0.19	0.06	0.21	0.18	0.75
0.17	0.05	0.20	0.01	0.79
0.31	0.07	0.28	0.09	0.94
0.06	0.04	0.16	0.07	0.72
0.27	0.05	0.22	0.08	0.82
0.17	0.05	0.22	0.09	0.90
0.20	0.04	0.21	0.08	0.70
0.19	0.04	0.19	0.18	0.60
0.19	0.05	0.23	0.08	0.65
0.10	0.04	0.25	0.08	0.61
0.28	0.05	0.18	0.08	0.45

- | | |
|----|--|
| - | 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. |
| * | The maximum flow rate capacity for Lobs Hole STP/PWTP during the reporting month was 7.18 L/s |
| ^ | The maximum flow rate capacity for Tantangara STP/PWTP during the reporting month was 9.84 L/s |
| -- | Water not discharged on this day |



Snowy Hydro 2.0 Main Works EPL Sampling: 01 - 28 February 2025

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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 20 December 2024, and the approved Water Management Plan to ensure that works are not impacting on nearby receiving waters.

A map showing the location of each of the EPL named sampling points is provided after the results tables.

Surface Water Results: Surface water results during this period reflect the fluctuating weather conditions recorded throughout the reporting period. Over 100 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. Water reuse for dust suppression is observed to be captured by the numerous basins across the Project.

Reservoir Results: The elevated temperatures and fluctuating water levels in the reservoir water bodies could present as the key drivers for the green discolouration and notable algae decomposition present during sampling. The resulting reduction in DO %, elevated EC and coliform units are possibly reflections of such influence.

Discharge Results: No discharge from either points was recorded during February.

Groundwater Results: Elevated water temperatures were observed throughout Lobs Hole and Tantangara during the reporting period, which was typically accompanied by lower DO%, elevated EC and elevated turbidity readings. Rainfall volumes recorded during the reporting period are anticipated to have influenced the elevated turbidity and EC observations. Elevated turbidity observations are anticipated to reduce following maintenance works soon to be actioned. Additional measures such as groundwater extraction pumps are in place at Tantangara with 4 bore pumps scheduled for installation at Lobs Hole imminently.

Leachate results: Consistent with the function of engineered containment systems, elevated concentrations of analytes are observed within leachate basins throughout the reporting period. These systems are subject to weekly inspections, which are conducted through our digital inspection system.

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Snowy Hydro 2.0 Main Works

Monthly EPL Sampling: 01-28 February 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 (filtered)	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	µg/L	10	10
Nitrite + Nitrate as N (NO ₃)	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	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 [^]
Biochemical Oxygen Demand	mg/L	2	1/5 [^]

EPL10	EPL11	EPL28	EPL29	EPL32	EPL38	EPL39	EPL40	EPL46	EPL51	EPL107	EPL108	EPL109
26/2/25	26/2/25	9/2/25	9/2/25	9/2/25	1/2/25	1/2/25	9/2/25	9/2/25	9/2/25	26/2/25	26/2/25	26/2/25
8.12	7.93	8.07	8.16	8.1	8.95	6.66	7.56	8.21	8.18	7.64	7.69	7.89
78	56	28	26	26	28	30	30.9	27	27	34	32	31
205	209	225	227	230	101	233	168	220	86	221	204	151
23.52	23.15	21.2	22.5	22.4	26.22	22.65	19.9	22.61	22.65	22.16	21.74	21.52
75.4	69.2	56.9	58.3	65.2	78.4	91.5	88.4	62.9	57.5	69	82.8	80
0.5	0	13	9.3	9	10.3	18.7	5.16	8	9.1	0	0	23.5
<5	<5	8	<5	<5	6	8	<5	<5	<5	<5	<5	<5
43	31	9	9	9	5	7	9	9	9	17	17	14
40	130	<10	20	<10	<10	<10	20	<10	40	60	20	40
30	<10	20	<10	<10	<10	<10	<10	20	<10	<10	<10	20
300	400	300	400	400	300	200	300	300	400	200	200	200
300	400	300	400	400	300	200	300	300	400	200	200	200
<10	<10	10	10	10	<10	<10	<10	50	<10	<10	<10	<10
30	40	40	40	40	30	20	50	40	70	<10	10	<10
<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	<10	10	<10
<5	<5	26	32	30	24	37	25	30	31	<5	<5	<5
0.4	0.3	0.4	0.3	0.3	0.3	0.2	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	<0.2	<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	<0.5
26	12	388	246	247	186	141	104	252	251	6	4	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	<0.1
<0.5	<0.5	1.7	3.4	3.3	2.7	8.8	4.4	3.0	3.2	<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	<0.5
<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,900	68	6000	-	-	-	-	-	-	3300	-	-	-
3	3	5	-	-	-	-	-	-	6	-	-	-

* Water Quality Objective values for Talbingo and Tantangara Reservoir refer to the default trigger values for physical and chemical stressors in south-east Australia (fresh lakes and reservoirs) for the protection of 95% of aquatic species ANZECC / ARMCANZ (2000), they are not pollutant limits imposed by EPL 21266.

** Algal blooms can present as faecal coliforms

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

- Sample not required at this location.



Snowy Hydro 2.0 Main Works

Monthly EPL Sampling: 01-28 February 2025 - Treated 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	-	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 (filtered)	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	µg/L	10	200/2000 [^]
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	No Water Quality Objective Value
Phosphorus (Total)	µg/L	10	100/300 [^]
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	5

EPL 41	EPL 43	EPL 44	EPL 45	EPL 47	EPL 48	EPL 49	EPL 50
2/2/2025							
-	0.0000	0.1994	0.0523	0.2074	0.0887	0.6811	-
-	-	-	-	-	-	-	-
8.32							
2210	-	-	-	-	-	-	5.14
203	-	-	-	-	-	-	10.8
26.69	-	-	-	-	-	-	224.5
66.3	-	-	-	-	-	-	19.6
9.9	-	-	-	-	-	-	85.7
-	-	-	-	-	-	-	0.8
<5							
106	-	-	-	-	-	-	<5
-	-	-	-	-	-	-	<1
2,110							
18,300	-	-	-	-	-	-	30
3,300	-	-	-	-	-	-	20
21,600	-	-	-	-	-	-	200
70	-	-	-	-	-	-	200
80	-	-	-	-	-	-	<10
-	-	-	-	-	-	-	40
11							
-	-	-	-	-	-	-	<4
<1.0							
-	-	-	-	-	-	-	<1.0
16							
3.0	-	-	-	-	-	-	<5
13.3	-	-	-	-	-	-	<0.2
<0.5	-	-	-	-	-	-	<0.2
<2	-	-	-	-	-	-	<0.5
<0.1	-	-	-	-	-	-	<2
2.7	-	-	-	-	-	-	<0.1
<0.5	-	-	-	-	-	-	<0.5
<0.01	-	-	-	-	-	-	<0.5
2	-	-	-	-	-	-	<0.01
-	-	-	-	-	-	-	<1
<1							
-	-	-	-	-	-	-	<1
<2	-	-	-	-	-	-	<2

Note: There is no 100th percentile limit for Nitrogen (Total).

* 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.

- Samples not required

[^] 90 Percentile concentration limit/100 Percentile limit

[#] Inflows to STP and CWTP do not directly correspond to outflow at RO as much of the water is reused on site



Snowy Hydro 2.0 Main Works

Monthly EPL Sampling: 01-28 February 2025 - Treated Water

[illegible]

EPL 44	EPL 45	EPL 47	EPL 48	EPL 49
Discharge volume (Megalitres)				
0.18	0.04	0.33	0.18	0.50
0.14	0.05	0.28	0.08	0.77
0.17	0.04	0.13	0.08	0.84
0.19	0.05	0.24	0.07	0.76
0.10	0.04	0.21	0.07	0.65
0.19	0.02	0.10	0.08	0.77
0.22	0.09	0.32	0.08	0.71
0.19	0.05	0.25	0.19	0.79
0.21	0.03	0.20	0.07	0.87
0.24	0.09	0.24	0.09	0.65
0.19	0.05	0.24	0.09	0.76
0.19	0.05	0.22	0.09	0.66
0.24	0.05	0.26	0.08	0.86
0.14	0.06	0.17	0.09	0.86
0.20	0.05	0.21	0.19	0.68
0.20	0.06	0.23	0.07	0.48
0.30	0.07	0.21	0.01	0.95
0.30	0.06	0.23	0.08	0.87
0.33	0.06	0.21	0.10	0.77
0.38	0.06	0.26	0.09	0.80
0.17	0.05	0.22	0.09	0.59
0.11	0.05	0.23	0.04	0.40
0.32	0.07	0.21	0.09	0.50
0.27	0.06	0.18	0.10	0.34
0.30	0.08	0.19	0.03	0.83
0.18	0.07	0.17	0.13	0.95
0.17	0.04	0.23	0.07	0.99
0.18	0.10	0.27	0.22	0.84

- | | |
|----|--|
| - | 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. |
| * | The maximum flow rate capacity for Lobs Hole STP/PWTP during the reporting month was 4.40 L/s |
| * | The maximum flow rate capacity for Tantangara STP/PWTP during the reporting month was 11.34 L/s |
| -- | Water not discharged on this day |



Snowy Hydro 2.0 Main Works EPL Sampling: 01 - 31 March 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 Approval Conditions, Environmental Protection Licence No 21266 - Variation 20 December 2024, and the approved Water Management Plan to ensure that works are not impacting on nearby receiving waters.

A map showing the location of each of the EPL named sampling points is provided after the results tables.

Surface Water Results: Surface water results revealed EPL24 to show elevated concentrations in Electrical conductivity, Total Nitrogen, Nitrates, and Manganese. These levels fall within range of historical data, though we have seen an increased trend of these analytes, it is important to note that this location is sampled weekly when water levels permit. It has been observed that some EPL locations on the Yarrongabily river, Wallaces Creek, Nungar Creek, Eucumbene River, Kelly's Creek, and the Murrumbidgee River have shown decreased levels of Disolved Oxygen which could be attributed to the lower levels of flow that had also been recorded historically when similiar conditions were present. EPL 52, EPL EPL84, EPL85, and EPL86 are all showing high levels on Total Nitrogen, Electrical Conductivity, and pH. These locations are sediment basins and the results lie within our expectations for the results we received. EPL100, EPL101 are basins that have been well managed and have been dewatered promptly after rain events leaving them too low to obtain a sample.

Reservoir Results: Talbingo and Tantangara reserviour had low water levels, higher temperatures, and both had evidence of algae blooms with green colours and physical growths on the surface. These conditions may have contributed to the results recorded this month as there were exceedances in Electrical conductivity, as well as faecal coliforms. There were slight exceedances recorded for the Total Nitrogen and Disolved oxygen were recorded at levels below our Water Quality Objectives for some of the locations.

Discharge Results: Water was discharged on the 01/03/2025 following suficient NATA accredited laboratory results. The conductivity of EPL41 and EPL50 are below Water Quality Objectives, Nitrates are slightly above WQO's, though feocal coliforms are within the guideline values.

Groundwater Results: The groundwater EPL points recorded at Tantangara (Emplacement area) and Lobs Hole (Lick Hole Gully, Main Yard, GF01) areas have recorded exceedances in Electrical conductivity. These locations are situated near spoil emplacement areas. EPL81, EPL82, and EPL88 are also showing exceedances in Arsenic (flitered), Iron (filtered), and Nitrogen Total. Bore maintenance is currently on going within nominated locations. The results showing for EPL116, and EPL117 in phospurus are extremely high in accordance to our WQO's, these spikes do not fall within histrocial records, and it is to note these locations are down gradients of the Spoil emplacement area. These EPL points are downgradient of the spoil emplacement areas, located near the reservoir. This is currently under investigation.

Leachate results: Results for lecachate basins show exceedances in pH, EC, DO, and turbidity, as well as the results recieved for the comprehensive samples. These results are within expectations. The Marica EPL locations were consistently managed at levels that prohibit sample collection.

The publication of this pollution monitoring data is carried out in accordance with section 66 (6) of the Protection of the Environment Operations Act 1997 (NSW).

Snowy Hydro Limited gives no warranty or representation regarding the data suitability for any particular purpose.

Snowy Hydro Limited excludes all liability to any person for loss or damage of any kind (however caused, including but not limited to by negligence) arising whether directly or indirectly from or relating in any way to the use of this data, whether in whole or in part.

Monthly EPL Sampling: 01-31 March 2025 - Groundwater

EPK1		EPK2		EPK3		EPK4		EPK5		EPK6		EPK7		EPK8		EPK9		EPK10		EPK11		EPK12		EPK13		EPK14		EPK15		EPK16		EPK17		EPK18		EPK19		EPK20		EPK21		EPK22		EPK23		EPK24		EPK25		EPK26		EPK27		EPK28		EPK29		EPK30		EPK31		EPK32		EPK33		EPK34		EPK35		EPK36		EPK37		EPK38		EPK39		EPK40		EPK41		EPK42		EPK43		EPK44		EPK45		EPK46		EPK47		EPK48		EPK49		EPK50		EPK51		EPK52		EPK53		EPK54		EPK55		EPK56		EPK57		EPK58		EPK59		EPK60		EPK61		EPK62		EPK63		EPK64		EPK65		EPK66		EPK67		EPK68		EPK69		EPK70		EPK71		EPK72		EPK73		EPK74		EPK75		EPK76		EPK77		EPK78		EPK79		EPK80		EPK81		EPK82		EPK83		EPK84		EPK85		EPK86		EPK87		EPK88		EPK89		EPK90		EPK91		EPK92		EPK93		EPK94		EPK95		EPK96		EPK97		EPK98		EPK99		EPK100		EPK101		EPK102		EPK103		EPK104		EPK105		EPK106		EPK107		EPK108		EPK109		EPK110		EPK111		EPK112		EPK113		EPK114		EPK115		EPK116		EPK117		EPK118		EPK119		EPK120		EPK121		EPK122		EPK123		EPK124		EPK125		EPK126		EPK127		EPK128		EPK129		EPK130		EPK131		EPK132		EPK133		EPK134		EPK135		EPK136		EPK137		EPK138		EPK139		EPK140		EPK141		EPK142		EPK143		EPK144		EPK145		EPK146		EPK147		EPK148		EPK149		EPK150	
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* Water Quality Objective values for groundwater refer to the default trigger values for physical and chemical stressors in south-east Australia (upland rivers) for the protection of 99% of aquatic species ANZECC / ARMCANZ (2000); they are not pollutant limits imposed by EPA 21266.

Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01-31 March 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 (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	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	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*
Biochemical Oxygen Demand	mg/L	2	1/5^

* Water Quality Objective values for Talbingo and Tantangara Reservoir refer to the default trigger values for physical and chemical stressors in south-east Australia (fresh lakes and reservoirs) for the protection of 95% of aquatic species ANZECC / ARMCANZ (2000), they are not pollutant limits imposed by EPL 21266.

** Algal blooms can present as faecal coliforms

^ 90th percentile concentration limits / 100 percentile concentration limits

- Sample not required at this location.

EPL10	EPL11	EPL28	EPL29	EPL32	EPL38	EPL39	EPL40	EPL46	EPL51	EPL107	EPL108	EPL109
2/3/25	2/3/25	26/3/25	26/3/25	26/3/25	1/3/25	9/3/25	9/3/25	26/3/25	26/3/25	16/3/25	16/3/25	16/3/25
8.1	8.01	7.82	8.42	8.18	7.94	6.34	8.95	8.5	8.43	7.79	7.72	7.77
102	63	27	26	26	36	29.6	31.7	26	26	40	38	36
191	192	130	140	14	174	664.1	625.5	139	140	193	190	180
22.97	22.84	18.43	20.14	20.19	22.63	17.6	16.5	20.29	20.21	22.01	21.97	21.7
64.8	70.6	93.2	95.5	91.5	54.1	62.1	75.3	97.1	93.8	72.6	67.8	75.6
1.61	1.15	7.3	13.4	12.9	8.8	7.17	2.63	12.5	10.7	0.76	0.85	0.66
<5	<5	<5	<5	<5	<5	<5	<5	<5	5	<5	<5	<5
46	28	9	9	9	9	13	16	9	9	14	14	14
<10	<10	70	<10	<10	20	30	140	90	<10	<10	40	20
<10	<10	10	<10	<10	<10	290	20	10	<10	<10	10	<10
100	100	300	400	400	300	100	200	300	400	100	100	100
100	100	300	400	400	300	400	200	300	400	100	100	100
<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
20	10	20	30	30	20	<10	<10	40	30	20	20	10
<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
<5	<5	12	9	11	40	26	19	10	10	<5	<5	<5
0.7	0.5	0.4	0.4	0.4	0.4	0.2	<0.2	0.4	0.4	0.3	0.4	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
<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
20	6	141	90	92	218	98	89	96	91	4	3	3
<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	<0.5	0.6	<0.5	<0.5	1.7	3.4	3.4	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
<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
75	230	7	-	-	-	-	-	-	5	-	-	-
4	3	3	-	-	-	-	-	-	2	-	-	-

Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01-31 March 2025 - Surface Water

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*
Field			
pH	-	-	6.5-8
Electrical Conductivity	µS/cm	-	50-300
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 analyses			
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 ₂)	µg/L	10	15
Nitrate Nitrogen Total	µg/L	100	No Water Quality Objective Value
Nitrogen (Total)	µg/L	100	250
Reactive Phosphorus	µg/L	1	15
Phosphorus (Total)	µg/L	10	20
Inorganics			
Cyanide Total	µg/L	4	4
Hydrocarbons			
Oil and Grease	mg/L	1	5
Metals			
Aluminium (total)	µg/L	5	No Water Quality Objective Value
Aluminium (dissolved)	µg/L	5	27
Arsenic (total)	µg/L	0.2	No Water Quality Objective Value
Arsenic (dissolved)	µg/L	0.2	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	No Water Quality Objective Value
Copper (total)	µg/L	2	No Water Quality Objective Value
Iron (dissolved)	µg/L	2	300
Lead (total)	µg/L	0.1	1
Lead (dissolved)	µg/L	0.1	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 (total)	µg/L	0.5	No Water Quality Objective Value
Nickel (dissolved)	µg/L	0.5	8
Silver (total)	µg/L	0.01	No Water Quality Objective Value
Silver (dissolved)	µg/L	0.01	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	EPL14	EPL16	EPL17	EPL30	EPL31	EPL33	EPL34	EPL35	EPL36	EPL37	EPL52	EPL53	EPL54	EPL55	EPL67	EPL71	EPL84	EPL85	EPL86	EPL98	EPL99	EPL100	EPL101	EPL106	EPL110	EPL118	EPL120	EPL122		
3/01/25	3/03/25	3/03/25	3/03/25	3/03/25	3/03/25	3/03/25	3/03/25	7/03/25	18/03/25	18/03/25	1/09/25	1/09/25	1/09/25	1/09/25	8/03/25	8/03/25	4/03/25	Dry	Dry	Dry	Dry	Dry	Dry	Dry	13/03/25	13/03/25	13/03/25	Dry	18/03/25	Dry	Dry	5/03/25	Dry	Dry	Dry	7/03/25	
8.03	7.9	7.86	8.14	8.06	7.99	8.05	8.26	6.7	7.86	8.23	6.89	7.12	7.21	8.19	7.87	7.29	7.36	9.21	Dry	Dry	Dry	Dry	Dry	Dry	Dry	9.29	8.85	8.87	Dry	30.46	Dry	Dry	7.66	Dry	Dry	7.86	
219	123	221	177	172	166	170	175	1270	37	36	40	32	31	48	40	52	54	863	Dry	Dry	Dry	Dry	Dry	Dry	Dry	966	561	1130	Dry	511	Dry	Dry	1379	Dry	Dry	539	
90	118	139	146	301	121	125	137	134	190	164	268	285	239	136	155	126	145	93	Dry	Dry	Dry	Dry	Dry	Dry	Dry	115	129	147	Dry	59	Dry	Dry	196	Dry	Dry	123	
17.93	16.42	21.61	20.07	17.47	17.39	17.77	22.66	18.43	11.98	11	13.43	13.5	17.83	12.18	11.71	16.06	15.75	23.49	Dry	Dry	Dry	Dry	Dry	Dry	Dry	28.62	23.51	27.8	Dry	12.29	Dry	Dry	21.14	Dry	Dry	17.55	
88.4	63.3	68.7	84	66.2	107.4	71.5	65.3	65.1	74.2	71.2	61.4	69.4	68.3	66.3	68.8	58.2	63.2	80.4	Dry	Dry	Dry	Dry	Dry	Dry	Dry	128.5	56	80.4	Dry	69.8	Dry	Dry	101.9	Dry	Dry	78.8	
8	3.7	4.6	10.1	1.6	3.3	1.7	3.3	0.4	5.3	7.65	5.1	8.8	13.2	71.9	14.9	7.8	9.2	47.1	Dry	Dry	Dry	Dry	Dry	Dry	Dry	782	1000	56.5	Dry	170	Dry	Dry	20.8	Dry	Dry	100	
7	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	24	Dry	Dry	Dry	Dry	Dry	Dry	Dry	223	418	26	Dry	72	Dry	Dry	6	Dry	Dry	87	
212	60	80	82	87	85	85	85	330	18	18	13	13	9	16	16	17	17	260	Dry	Dry	Dry	Dry	Dry	Dry	Dry	44	31	217	Dry	108	Dry	Dry	420	Dry	Dry	86	
20	10	20	<10	<10	16	<10	<10	10	20	<10	40	<10	20	80	30	20	20	390	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	20	20		Dry	130	Dry	Dry	<10	Dry	Dry	75
<100	<100	380	20	<100	10	10	20	61,600	<100	<100	10	<10	10	<10	<10	20	10	38,100	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	1,180	5,320	11,800	Dry	5,380	Dry	Dry	43,100	Dry	Dry	9,180
<100	<100	400	<100	<100	<100	100	<100	66,500	<100	<100	200	<100	300	400	300	100	300	7,000	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	800	1,400	1,700	Dry	2,200	Dry	Dry	6,600	Dry	Dry	400
<100	<100	400	<100	<100	<100	100	<100	66,500	<100	<100	200	<100	300	400	300	100	300	45,100	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	2,900	6,900	13,600	Dry	8,600	Dry	Dry	50,100	Dry	Dry	9,600
<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	Dry	Dry	Dry	<10	20	<10	Dry	<10	Dry	Dry	<10	Dry	Dry	<10		
10	30	50	40	<10	30	40	30	20	10	40	150	20	20	40	<10	40	30	30	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	150	160	30	Dry	130	Dry	Dry	20	Dry	Dry	200
<4	<4	<4	<4	14	<4	<4	<4	<4	5	<4	<4	<4	<4	<4	<4	<4	<4	<4	Dry	Dry	Dry	Dry	Dry	Dry	Dry	<4	<4	<4	Dry	<4	Dry	Dry	<4	Dry	Dry	<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	Dry	Dry	Dry	Dry	Dry	Dry	Dry	<1.0	<1.0	<1.0	Dry	<1.0	Dry	Dry	<1.0	Dry	Dry	<1.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	164	Dry	Dry	Dry	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-	-	
<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	11	12	24	16	15	16	23	<5	Dry	Dry	Dry	Dry	Dry	Dry	Dry	19	19	5	Dry	85	Dry	Dry	<5	Dry	Dry	<5	
0.7	0.3	0.7	0.6	0.7	0.7	0.7	0.7	0.4	<0.2	<0.2	<0.2	<0.2	0.4	0.2	0.2	0.3	0.4	<0.2	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	20.5	21.9	6.2	Dry	1.4	Dry	Dry	2.3	Dry	Dry	0.3
<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.4	0.3	0.3	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	8.6	15.6	9.3	Dry	76.6	Dry	Dry	2.1	Dry	Dry	<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	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	4.0	1.9	0.8	Dry	0.7	Dry	Dry	<0.5	Dry	Dry	<0.5
6	22	11	12	6	8	9	13	2	22	15	46	35	145	213	221	324	269	<2	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	27	36	<2	Dry	5	Dry	Dry	<2	Dry	Dry	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	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	<0.1	<0.1	<0.1	Dry	<0.1	Dry	Dry	<0.1	Dry	Dry	<0.1
0.6	2.4	1.5	1.0	0.8	0.8	1.5	2.9	275	5.2	2.8	3.5	2.0	0.9	11.8	5.6	49.2	0.8	<0.5	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	0.8	<0.5	<0.5	Dry	<0.5	Dry	Dry	<0.5	Dry	Dry	<0.5
<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.2	<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	1.2	0.6	0.6	Dry	<0.5	Dry	Dry	1.9	Dry	Dry	<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	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	<0.01	<0.01	<0.01	Dry	<0.01	Dry	Dry	<0.01	Dry	Dry	<0.01
<1	<1	<1	<1	<1	<1	<1	<1	7	<1	<1	8	<1	<1	<1	<1	<1	<1	<1	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	<1	2	<1	Dry	<1	Dry	Dry	<1	Dry	Dry	<1

* Water Quality Objective values for surface water refer to the default trigger values for physical and chemical stressors in south-east Australia (upland rivers) for the protection of 95% of aquatic species ANZECC / ARMCANZ (2018), they are not pollutant limits imposed by EPL 21266.

- Sample(s) required

Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01-31 March 2025 - 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	-	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 (filtered)	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	µg/L	10	200/2000 [^]
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	No Water Quality Objective Value
Phosphorus (Total)	µg/L	10	100/300 [^]
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	5

EPL 41	EPL 43	EPL 44	EPL 45	EPL 47	EPL 48	EPL 49	EPL 50
16/03/2025							
-	0.0000	0.2650	0.0512	0.2177	0.0970	0.7472	-
-	-	-	-	-	-	-	-
7.84	-	-	-	-	-	-	7.92
6	-	-	-	-	-	-	18.6
507	-	-	-	-	-	-	701
25.15	-	-	-	-	-	-	16.1
73.6	-	-	-	-	-	-	55.2
0.9	-	-	-	-	-	-	0.53
<5	-	-	-	-	-	-	<5
<1	-	-	-	-	-	-	<1
40	-	-	-	-	-	-	<10
100	-	-	-	-	-	-	<10
<100	-	-	-	-	-	-	<100
100	-	-	-	-	-	-	<100
<10	-	-	-	-	-	-	<10
<10	-	-	-	-	-	-	10
<4	-	-	-	-	-	-	<4
<1.0	-	-	-	-	-	-	<1
<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
11.00	-	-	-	-	-	-	<1
<2	-	-	-	-	-	-	<1

Note: Treated water was not being discharged at Talbingo Reservoir at the time of EPL sampling.

There is no 100th percentile limit for Nitrogen (Total).

* 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.

- Samples not required

[^] 90 Percentile concentration limit/100 Percentile limit

[#] Inflows to STP and CWTP do not directly correspond to outflow at RO as much of the water is reused on site

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

Date
1/03/2025
2/03/2025
3/03/2025
4/03/2025
5/03/2025
6/03/2025
7/03/2025
8/03/2025
9/03/2025
10/03/2025
11/03/2025
12/03/2025
13/03/2025
14/03/2025
15/03/2025
16/03/2025
17/03/2025
18/03/2025
19/03/2025
20/03/2025
21/03/2025
22/03/2025
23/03/2025
24/03/2025
25/03/2025
26/03/2025
27/03/2025
28/03/2025
29/03/2025
30/03/2025
31/03/2025

EPL 43 *	EPL 50 ^
Discharge volume (Megalitres)	
-	-
0.44	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
0.20	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
0.12	-
0.57	-
-	-
0.38	-
1.14	-
0.27	0.73
-	0.63
-	-
14.85	0.28
0.39	-

EPL 44	EPL 45	EPL 47	EPL 48	EPL 49
Discharge volume (Megalitres)				
0.14	0.06	0.16	0.12	0.62
0.15	0.06	0.20	0.05	0.52
0.15	0.07	0.21	0.08	0.71
0.15	0.06	0.20	0.24	0.86
0.11	0.04	0.22	0.08	0.79
0.12	0.04	0.21	0.09	0.75
0.15	0.05	0.21	0.08	0.76
0.22	0.03	0.23	0.09	0.79
0.16	0.04	0.21	0.09	0.69
0.21	0.07	0.18	0.08	0.86
0.13	0.03	0.20	0.09	0.59
0.13	0.05	0.18	0.08	0.53
0.13	0.05	0.20	0.07	0.83
0.73	0.05	0.20	0.09	0.92
0.42	0.04	0.20	0.07	0.98
0.49	0.06	0.17	0.01	0.68
0.41	0.07	0.29	0.07	0.52
0.42	0.07	0.23	0.16	0.87
0.40	0.06	0.25	0.04	0.72
0.42	0.06	0.25	0.06	0.64
0.28	0.03	0.19	0.06	0.58
0.24	0.04	0.20	0.06	0.78
0.39	0.06	0.20	0.01	0.73
0.24	0.04	0.22	0.04	0.76
0.25	0.04	0.22	0.08	0.81
0.16	0.05	0.23	0.25	0.52
0.28	0.05	0.22	0.08	0.83
0.13	0.04	0.24	0.08	0.83
0.24	0.05	0.21	0.17	0.50
0.30	0.05	0.21	0.16	0.67
0.21	0.05	0.21	0.17	0.78

- 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.
- * The maximum flow rate capacity for Lobs Hole STP/PWTP during the reporting month was 8.45 L/s
- ^ The maximum flow rate capacity for Tantangara STP/PWTP during the reporting month was 11.34 L/s
- Water not discharged on this day



Snowy Hydro 2.0 Main Works EPL Sampling: 01 - 30 April 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 Approval Conditions, Environmental Protection Licence No 21266 - Variation 20 December 2024, and the approved Water Management Plan to ensure that works are not impacting on nearby receiving waters.

A map showing the location of each of the EPL named sampling points is provided after the results tables.

Surface Water Results: EPL24 reported elevated nutrient concentrations, electrical conductivity and select heavy metals in line with previous sampling rounds, consistent with low water levels at the location. Although this is typical of low flows the site will continue to be monitored weekly. Multiple locations, such as EPL122 have reported elevated EC, low DO, and elevated nitrogen analytes. These are understood to be influenced by the low flow rates within the streams, and the catchments for our basin locations.

Reservoir Results: Reduced water levels and the developing algal cycle within the Tantangara and Talbingo water bodies are understood to heavily influence the observed analytical results. Notable concentrations of biological analytes, DO, EC and the nitrogen compounds observed at multiple locations are reflective of this.

Discharge Results: The analytical results reflect sample collection during the plant recirculation phase. Slight exceedances of nitrogen compounds and in-situ readings were noted. Note: No discharge occurred on the date the samples were collected. Although the samples were taken from the EPL designated EPL41, the commissioning of the INX-OUT location further downstream is understood to be a more representative location.

Groundwater Results: The results for downstream groundwater points have returned elevated results in Nitrogen, Nitrates, Phosphorus, and Ammonia that are greater than adopted WQO's. Multiple locations have reported concentrations of nitrogenous compounds across the Project footprint, particularly from locations within proximity to the emplacement area GF01. Locations such as EPL57 are returning elevated nitrates, Nitrogens, and phosphorus results were observed to be increasing. Heavy metals such as Arsenic and Copper (dissolved) were reported as greater than adopted WQO's at Main Yard locations particularly. It is noted the majority of heavy metal concentrations are within historic ranges for the historic mining locations. EPL87, EPL95, EPL105 reported elevated concentrations of dissolved zinc outside historic ranges.

Leachate results: The exceedances found within the leachate basin results are in line with intended design functionality for the storage locations of leachate water. GF01 leachate basin was under repair works by construction and therefore had no water available for collection.

Snowy Hydro Limited gives no warranty or representation regarding the data suitability for any particular purpose.

Snowy Hydro Limited excludes all liability to any person for loss or damage of any kind (however caused, including but not limited to by negligence) arising whether directly or indirectly from or relating in any way to the use of this data, whether in whole or in part.



Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01-30 April 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 (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	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	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^
Biochemical Oxygen Demand	mg/L	2	1/5^

EPL10	EPL11	EPL28	EPL29	EPL32	EPL38	EPL39	EPL40	EPL46	EPL51	EPL107	EPL108	EPL109
13/04/2025	13/04/2025	16/04/2025	15/04/2025	15/04/2025	12/04/2025	6/04/2025	12/04/2025	15/04/2025	16/04/2025	13/04/2025	13/04/2025	13/04/2025
7.35	7.35	8.93	7.82	8.13	8.59	7.2	7.72	7.74	7.87	7.24	7.29	7.9
47	41	13.9	27	27	27	2	32.5	28	27.5	38	33	35
193	190	110.1	134	110	113	259	143.5	165	144.7	183	175	145
18.32	18.42	15.3	14.65	14.7	14.9	11.75	16.2	13.84	16.6	17.75	17.4	17.27
87.2	91.2	89.7	60.1	101.6	89.1	65	101.3	93.6	91	85	89.2	85.7
5.1	9.5	6.85	0	3.3	57.9	6	3.28	8.2	10.96	0.5	11	15.9
<5	<5	17	<5	<5	18	<5	<5	<5	<5	<5	<5	<5
22	19	9	9	9	9	7	9	9	9	10	10	10
30	30	<10	10	10	<10	<10	<10	20	<10	<10	<10	<10
<10	<10	10	<10	<10	<10	80	<10	<10	<10	<10	<10	<10
100	100	1,200	500	300	800	100	<100	300	400	<100	<100	<100
100	100	1,200	500	300	800	200	<100	300	400	<100	<100	<100
<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
30	20	70	30	30	40	150	20	20	50	20	20	<10
<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
<5	<5	15	9	9	9	12	13	8	9	<5	<5	<5
0.4	0.4	0.3	0.3	0.4	0.4	<0.2	<0.2	0.4	0.4	0.4	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
<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6	4	72	55	56	52	77	58	61	58	4	4	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	<0.1
<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.2	2.4	<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
<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
28	21	100	-	-	-	-	-	-	1	-	-	-
4	3	4	-	-	-	-	-	-	2	-	-	-

* Water Quality Objective values for Talbingo and Tantangara Reservoir refer to the default trigger values for physical and chemical stressors in south-east Australia (fresh lakes and reservoirs) for the protection of 95% of aquatic species ANZECC / ARMCANZ (2000), they are not pollutant limits imposed by EPL 21266.

** Algal blooms can present as faecal coliforms

^ 90th percentile concentration limits / 100 percentile concentration limits

- Sample not required at this location.



Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01-30 April 2025 - Volumes

Date
1/04/2025
2/04/2025
3/04/2025
4/04/2025
5/04/2025
6/04/2025
7/04/2025
8/04/2025
9/04/2025
10/04/2025
11/04/2025
12/04/2025
13/04/2025
14/04/2025
15/04/2025
16/04/2025
17/04/2025
18/04/2025
19/04/2025
20/04/2025
21/04/2025
22/04/2025
23/04/2025
24/04/2025
25/04/2025
26/04/2025
27/04/2025
28/04/2025
29/04/2025
30/04/2025

EPL 43 *	EPL 50 ^
Discharge volume (Megalitres)	
-	0.12
0.52	0.63
0.46	-
0.38	0.82
0.28	-
-	0.74
-	-
-	0.34
-	0.58
-	-
-	0.44
0.17	0.33
-	0.37
-	0.61
0.28	-
-	0.55
-	0.18
-	-
-	-
-	-
-	0.07
-	-
0.43	0.14
0.56	-
-	-
0.37	-
-	-
0.46	-
-	-

EPL 44	EPL 45	EPL 47	EPL 48	EPL 49
Discharge volume (Megalitres)				
0.21	0.05	0.19	0.06	1.10
0.25	0.06	0.23	0.08	0.95
0.22	0.05	0.23	0.09	0.62
0.14	0.07	0.28	0.10	0.60
0.04	0.03	0.24	0.07	0.33
0.19	0.06	0.21	0.10	0.72
0.30	0.06	0.25	0.07	0.59
0.46	0.06	0.22	0.09	0.76
0.48	0.06	0.23	0.05	0.52
0.51	0.08	0.17	0.09	0.71
0.25	0.07	0.18	0.28	0.71
0.41	0.05	0.30	0.08	0.48
0.27	0.05	0.23	0.04	0.53
0.27	0.05	0.39	0.03	0.66
0.59	0.05	0.22	0.08	0.52
0.29	0.04	0.20	0.25	0.46
0.16	0.04	0.19	0.09	0.52
0.28	0.06	0.18	0.05	0.56
0.28	0.04	0.20	0.07	0.54
0.31	0.05	0.19	0.09	0.64
0.36	0.05	0.19	0.10	0.51
0.50	0.06	0.20	0.06	0.35
0.41	0.09	0.19	0.03	0.62
0.28	0.06	0.20	0.02	0.33
0.19	0.05	0.23	0.08	0.36
0.27	0.05	0.21	0.08	0.29
0.47	0.06	0.22	0.02	0.58
0.20	0.06	0.26	0.05	0.54
0.49	0.05	0.22	0.09	0.71
0.22	0.04	0.21	0.07	0.60

- 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.

* The maximum flow rate capacity for Lobs Hole STP/PWTP during the reporting month was 8.45 L/s

^ The maximum flow rate capacity for Tantangara STP/PWTP during the reporting month was 11.34 L/s

-- Water not discharged on this day

Snowy Hydro 2.0 Main Works

Monthly EPL Sampling: 01-30 April 2025 - 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	-	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 (filtered)	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	µg/L	10	200/2000 [^]
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	No Water Quality Objective Value
Phosphorus (Total)	µg/L	10	100/300 [^]
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	5

EPL 41	EPL 43	EPL 44	EPL 45	EPL 47	EPL 48	EPL 49	EPL 50
23/04/2025							
-	0.0000	0.3093	0.0545	0.2226	0.0815	0.5803	-
-	-	-	-	-	-	-	-
7.63	-	-	-	-	-	-	7.71
9.4	-	-	-	-	-	-	19.1
156	-	-	-	-	-	-	97.8
19.91	-	-	-	-	-	-	16.7
56	-	-	-	-	-	-	88.8
0.24	-	-	-	-	-	-	0.58
<5	-	-	-	-	-	-	<5
<1	-	-	-	-	-	-	<1
20	-	-	-	-	-	-	<10
80	-	-	-	-	-	-	10
<100	-	-	-	-	-	-	<100
<100	-	-	-	-	-	-	<100
<1	-	-	-	-	-	-	<10
<1	-	-	-	-	-	-	20
<4	-	-	-	-	-	-	<4
<1.0	-	-	-	-	-	-	<1.0
<5	-	-	-	-	-	-	<5
<0.2	-	-	-	-	-	-	<0.2
<0.2	-	-	-	-	-	-	<0.2
<0.5	-	-	-	-	-	-	0.6
<2	-	-	-	-	-	-	<2
<0.1	-	-	-	-	-	-	<0.1
<0.5	-	-	-	-	-	-	<0.5
<0.5	-	-	-	-	-	-	<0.5
<0.01	-	-	-	-	-	-	<0.01
<1	-	-	-	-	-	-	5
<1	-	-	-	-	-	-	<1
<2	-	-	-	-	-	-	<2

Note: Treated water was not being discharged at Talbingo Reservoir at the time of EPL sampling.

There is no 100th percentile limit for Nitrogen (Total).

* 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.

- Samples not required

[^] 90 Percentile concentration limit/100 Percentile limit

[#] Inflows to STP and CWTP do not directly correspond to outflow at RO as much of the water is reused on site



Snowy Hydro 2.0 Main Works EPL Sampling: 01 - 31 May 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 Approval Conditions, Environmental Protection Licence No 21266 - Variation 20 December 2024, and the approved Water Management Plan to ensure that works are not impacting on nearby receiving waters.	
A map showing the location of each of the EPL named sampling points is provided after the results tables.	
Surface Water Results: Ammonia concentrations were slightly elevated in some EPL locations along Wallaces Creek, Yarrangobily River, and Murrumbidgee River. EPL24 is reported elevated nutrient and select heavy metal concentrations alongside elevated EC concentrations which have been recorded previous sampling rounds. These results are consistent with low flowing, shallow waterway that was observed at the time of sampling. There are exceedances noted from EPL122 where the concentrations of Nutrients, Electrical Conductivity, Phosphorus, and Ammonia are exceeding our WQO's and could be attributed to environmental conditions of shallow waterways and low flows, with lots of surrounding vegetation. Reservoir Results: Tantangara and Talbingo Reservoirs report consistent elevations in nitrogen in line with those data captures from previous monitoring events. Reduced water levels, consistent Nitrogen concentrations and the developing algal cycle within the Tantangara and Talbingo water bodies are understood to heavily influence the fluctuations in dissolved oxygen levels, such as those reported at EPL10, EPL29 and EPL39. EPL39 was captured during an extremely low water level time and is understood to be unrepresentative of the water quality at the time of monitoring. Elevated levels of Faecal coliforms, EC and Ammonia are potentially attributed to the fluctuations in water levels and the collection of samples from the waters. Discharge Results: Results for the discharge locations met the adopted WQO's for the periods of discharge. The discharge from EPL50 on the 26th was registered in the early hours of the morning prior to results returning. FGJV is in the process of finalising the discharge procedure which returns monitoring back to the EPL license for greater clarity. Groundwater Results: Results for groundwater bores surrounding Lickhole Gully have reported elevated concentrations of nutrients and select dissolved heavy metals. These heavy metals have been reported previously as being above adopted WQO's and are possibly influenced by the historic mining activities in the immediate vicinity. GF01 down gradient locations comprise similar characteristics. These elevations are not only seen in LHG PSE area but also in GF01 PSE down gradient locations. EPL1 which is sampled quarterly has returned elevated Electrical Conductivity, Ammonia, and Nutrient levels although this is not outside of data recorded from previous sample rounds. Leachate results: The exceedances found within the leachate basin results are in line with intended design functionality for the storage of PSE generated leachate water. GF01 basin has previously been reconstructed and has not since had water in it to sample.	

The publication of this pollution monitoring data is carried out in accordance with section 66 (6) of the Protection of the Environment Operations Act 1997 (NSW).
Snowy Hydro Limited gives no warranty or representation regarding the data suitability for any particular purpose.
Snowy Hydro Limited excludes all liability to any person for loss or damage of any kind (however caused, including but not limited to by negligence) arising whether directly or indirectly from or relating in any way to the use of this data, whether in whole or in part.

Monthly EPS Sampling: 01-31 May 2023 - Groundwater

* Water Quality Objectives values for groundwater refer to the default trigger values for physical and chemical constituents in south-east Australia (upheld for the protection of 95% of aquatic species ANZECC / ARMACANZ (2000), they are not pollutant limits imposed by EPA 20244.

Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01-31 May 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 (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	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	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 [^]
Biochemical Oxygen Demand	mg/L	2	1/5 [^]

- * Water Quality Objective values for Talbingo and Tantangara Reservoir refer to the default trigger values for physical and chemical stressors in south-east Australia (fresh lakes and reservoirs) for the protection of 95% of aquatic species ANZECC / ARMCANZ (2000), they are not pollutant limits imposed by EPL 21266.
- ** Algal blooms can present as faecal coliforms
- [^] 90th percentile concentration limits / 100 percentile concentration limits
- Sample not required at this location.

EPL10	EPL11	EPL28	EPL29	EPL32	EPL38	EPL39	EPL40	EPL46	EPL51	EPL107	EPL108	EPL109
4/05/2025	4/05/2025	25/05/2025	25/05/2025	25/05/2025	17/05/2025	17/05/2025	12/04/2025	15/04/2025	16/04/2025	13/04/2025	13/04/2025	13/04/2025
7.58	7.47	7.26	7.19	7.22	7.63	8.76	8.31	7.1	7.18	7.47	7.5	7.63
54	50	31	30	30	23	27	40.4	34	30	28	24	25
205	206	318	349	353	243	156	138.4	367	349	197	192	186
14.96	14.97	8.37	9	8.88	13.16	9.63	10.9	8.8	8.94	15.03	15.27	14.6
59.7	57	104.7	104.1	76.3	68.6	68.6	96.7	84.3	85.6	63.9	75.3	84.4
4.3	5.2	13.9	17.3	17.7	40.3	22.6	4.38	0.8	14.3	10.1	18	14.6
28	14	6	<5	<5	12	8	<5	<5	<5	8	<5	<5
33	33	9	9	9	9	7	9	9	9	17	14	14
30	30	60	60	60	<10	<10	40	100	60	80	40	70
10	30	20	10	10	10	50	<10	50	10	10	20	<10
100	200	500	500	400	1,000	<100	<100	500	500	200	200	200
100	200	500	500	400	1,000	<100	<100	600	500	200	200	200
<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
<10	10	10	20	<10	60	50	<10	10	20	20	<10	<10
<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
<5	<5	30	26	26	26	14	14	26	27	<5	<5	<5
0.4	0.4	0.3	0.4	0.4	0.4	<0.2	<0.2	0.4	0.4	0.3	0.3	0.2
<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.3	<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	<0.5
5	5	96	96	97	107	53	47	92	95	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
<0.5	<0.5	1.8	1.4	1.4	2.0	1.8	3.0	1.4	1.5	<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
<0.01	<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
6	3	22	-	-	-	-	-	-	11	-	-	-
3	4	8	-	-	-	-	-	-	6	-	-	-

Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01-31 May 2025 - 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	-	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 (filtered)	mg/L	1	No Water Quality Objective Value
Nutrients			
Ammonia as N	µg/L	10	200/2000 [^]
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	No Water Quality Objective Value
Phosphorus (Total)	µg/L	10	100/300 [^]
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	5

EPL 41	EPL 43	EPL 44	EPL 45	EPL 47	EPL 48	EPL 49	EPL 50
25/05/2025							26/5/2025
-	0.0000	0.3576	0.0568	0.2285	2.6710	0.5803	-
-	-	-	-	-	-	-	-
8.01	-	-	-	-	-	-	7.58
16	-	-	-	-	-	-	46.18
147	-	-	-	-	-	-	-
14.59	-	-	-	-	-	-	7.3
68.7	-	-	-	-	-	-	-
18.9	-	-	-	-	-	-	0.39
<5	-	-	-	-	-	-	<5
-	-	-	-	-	-	-	<1
<10	-	-	-	-	-	-	50
50	-	-	-	-	-	-	<10
<100	-	-	-	-	-	-	<100
<100	-	-	-	-	-	-	<100
<10	-	-	-	-	-	-	<10
10	-	-	-	-	-	-	20
<4	-	-	-	-	-	-	<4
<1.0	-	-	-	-	-	-	<1.0
<5	-	-	-	-	-	-	<5
<0.2	-	-	-	-	-	-	<0.2
<0.2	-	-	-	-	-	-	1.5
<0.5	-	-	-	-	-	-	1.3
<2	-	-	-	-	-	-	<2
<0.1	-	-	-	-	-	-	<0.1
<0.5	-	-	-	-	-	-	<0.5
<0.5	-	-	-	-	-	-	<0.5
<0.01	-	-	-	-	-	-	<0.01
<1	-	-	-	-	-	-	2
<1	-	-	-	-	-	-	<1
5	-	-	-	-	-	-	3

Note: Treated water was not being discharged at Talbingo Reservoir at the time of EPL sampling.

There is no 100th percentile limit for Nitrogen (Total).

* 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.

- Samples not required

[^] 90 Percentile concentration limit/100 Percentile limit

[#] Inflows to STP and CWTP do not directly correspond to outflow at RO as much of the water is reused on site

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

Date
1/05/2025
2/05/2025
3/05/2025
4/05/2025
5/05/2025
6/05/2025
7/05/2025
8/05/2025
9/05/2025
10/05/2025
11/05/2025
12/05/2025
13/05/2025
14/05/2025
15/05/2025
16/05/2025
17/05/2025
18/05/2025
19/05/2025
20/05/2025
21/05/2025
22/05/2025
23/05/2025
24/05/2025
25/05/2025
26/05/2025
27/05/2025
28/05/2025
29/05/2025
30/05/2025
31/05/2025

EPL 43 *	EPL 50 ^
Discharge volume (Megalitres)	
0.85	-
0.93	-
-	-
1.07	-
0.68	-
0.70	-
-	-
0.87	-
-	-
-	-
-	-
1.60	-
-	0.14
0.86	0.59
-	-
0.32	0.23
-	0.41
-	0.72
-	0.50
-	-
0.51	-
0.59	0.74
-	0.67
0.83	0.89
-	0.45
1.04	0.36
0.40	-
-	-
0.54	-
-	-
-	-

EPL 44	EPL 45	EPL 47	EPL 48	EPL 49
Discharge volume (Megalitres)				
0.37	0.05	0.22	0.07	1.10
0.30	0.05	0.22	0.09	0.95
0.24	0.05	0.22	0.08	0.62
0.45	0.05	0.22	0.07	0.60
0.18	0.03	0.18	0.10	0.33
0.60	0.05	0.26	0.07	0.72
0.21	0.05	0.17	0.08	0.59
0.26	0.04	0.25	0.55	0.76
0.13	0.05	0.25	0.11	0.52
0.44	0.08	0.16	-0.23	0.71
0.43	0.05	0.21	0.08	0.71
0.39	0.05	0.21	0.08	0.48
0.11	0.04	0.23	0.07	0.53
0.74	0.04	0.22	-0.06	0.66
0.29	0.05	0.26	77.78	0.52
0.50	0.05	0.16	0.07	0.46
0.23	0.04	0.24	0.07	0.52
0.32	0.06	0.23	-77.64	0.56
0.43	0.08	0.27	77.79	0.54
0.29	0.07	0.20	0.08	0.64
0.30	0.03	0.09	-77.86	0.51
0.24	0.03	0.09	77.97	0.35
0.57	0.21	0.52	0.88	0.62
0.44	0.07	0.27	-0.71	0.33
0.35	0.05	0.22	0.12	0.36
0.46	0.06	0.26	0.08	0.29
0.32	0.04	0.21	0.10	0.58
0.25	0.02	0.12	-78.45	0.54
0.25	0.02	0.12	78.63	0.71
0.28	0.12	0.37	0.07	0.60
0.36	0.05	0.20		

- 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.

* The maximum flow rate capacity for Lobs Hole STP/PWTP during the reporting month was 8.45 L/s

^ The maximum flow rate capacity for Tantangara STP/PWTP during the reporting month was 11.34 L/s

-- Water not discharged on this day

Snowy Hydro 2.0 Main Works EPL Sampling: 01 - 30 June 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=PEO%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 20 December 2024, and the approved Water Management Plan to ensure that works are not impacting on nearby receiving waters.	
A map showing the location of each of the EPL named sampling points is provided after the results tables.	
Groundwater Results: Results for groundwater bores surrounding Lick Hole Gully have reported elevated concentrations of nutrients and select dissolved heavy metals. These heavy metals have been reported previously as being above adopted WQO's. Increasing levels of nutrients have been reported at EPL56 and EPL57, similar to results reported down gradient of GF01. This may indicate that these bores are no longer representative of up gradient water quality. Investigations are underway to redrill EPL56 and EPL57 in more suitable locations. Reservoir Results: Increases in nutrients (particularly ammonia) in Tantangara Reservoir observed this month (EPL28, 29, 32, 38, 40, 46, 51) are likely associated with decomposition of algal biomass generated during the summer months, exacerbated by low water levels. Detection of thermotolerant coliforms in in Talbingo Reservoir (51 CFU/100mL at EPL11) is within the 90th percentile concentration limits and likely attributable to wildlife. Surface Water Results: Exceedances in nutrients and conductivity have been reported at EPL24 and EPL122, consistent with previously recorded data. These sites have low flow and water level which contributes to the high concentrations. Increases in nutrients at EPL33 was also observed, consistent with increases in nutrients at the upstream locations in the Tantangara reservoir. As expected, exceedances were noted in leachate storage infrastructure. Discharge Results: Results for the discharge locations met the adopted WQO's for the periods of discharge. A minor exceedance in pH was detected on the day of testing (15/06/2025) at EPL41, with no recorded discharge occurring on this day.	

The publication of this pollution monitoring data is carried out in accordance with section 66 (6) of the Protection of the Environment Operations Act 1997 (NSW).
Snowy Hydro Limited gives no warranty or representation regarding the data suitability for any particular purpose.
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Snowy Hydro 2.0 Main Works

Monthly EPL Sampling: 01-30 June 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	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 [^]
Biochemical Oxygen Demand	mg/L	2	1/5 [^]

* Water Quality Objective values for Talbingo and Tantangara Reservoir refer to the default trigger values for physical and chemical stressors in south-east Australia (fresh lakes and reservoirs) for the protection of 95% of aquatic species ANZECC / ARMCANZ (2000), they are not pollutant limits imposed by EPL 21266.

** Algal blooms can present as faecal coliforms

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

- Sample not required at this location.

EPL10	EPL11	EPL28	EPL29	EPL32	EPL38	EPL39	EPL40	EPL46	EPL51	EPL107	EPL108	EPL109
22/06/2025	22/06/2025	29/06/2025	29/06/2025	29/06/2025	14/06/2025	14/06/2025	29/06/2025	29/06/2025	29/06/2025	22/06/2025	22/06/2025	22/06/2025
7.98	7.97	7.62	8.02	7.87	7.66	7.61	7.37	7.2	8.46	7.95	7.96	8.05
39	36	27	37	35	33	20	26	31	62	33	29	31
284	285	171	131	142	240	266	182	203	109	281	273	255
8.22	8.66	3.37	5.55	4.96	6.41	6.96	3.14	3.8	6.58	9.13	9.17	9.36
73	95.7	79	68.3	65.9	72.8	81.3	73	89.2	71.3	98.6	99.9	104.3
2.9	3.8	1.8	0	0	5.1	5.1	2.1	1.9	0.5	3.4	2.8	3.2
<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
14	14	5	5	5	2	<1	5	9	9	12	12	12
80	10	70	160	150	170	<10	70	170	310	30	10	50
30	20	60	60	40	30	50	70	40	40	30	20	30
200	200	500	700	1,000	500	100	400	600	700	200	100	300
200	200	600	800	1,000	500	200	500	600	700	200	100	300
<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
20	40	<10	<10	10	20	<10	10	40	30	<10	<10	<10
<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
<5	<5	47	39	38	39	32	54	36	38	<5	<5	<5
0.3	0.3	<0.2	0.3	0.3	0.4	<0.2	<0.2	0.4	0.4	0.2	0.2	0.2
<0.2	<0.2	0.2	<0.2	0.3	<0.2	<0.2	<0.2	0.2	0.2	<0.2	<0.2	<0.2
<0.5	<0.5	0.9	0.6	1.0	<0.5	<0.5	0.8	0.6	0.8	<0.5	<0.5	<0.5
14	11	93	112	119	115	52	96	111	114	10	10	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	<0.1
3.3	1.0	13.6	19.1	20.1	12.1	3.8	13.2	20.4	20.4	0.7	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
<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	51**	4	-	-	-	-	-	-	<1	-	-	-
2	<2	<2	-	-	-	-	-	-	<2	-	-	-

Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01-30 June 2025 - 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	-	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	200/2000 [^]
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	No Water Quality Objective Value
Phosphorus (Total)	µg/L	10	100/300 [^]
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	5

EPL 41	EPL 43	EPL 44	EPL 45	EPL 47	EPL 48	EPL 49	EPL 50
15/06/2025							29/06/2025
-	0.0000	0.2339	0.0643	0.2230	0.0793	0.2703	-
-	-	-	-	-	-	-	-
8.58	-	-	-	-	-	-	6.85
4	-	-	-	-	-	-	51
216	-	-	-	-	-	-	313
12.49	-	-	-	-	-	-	7.86
97	-	-	-	-	-	-	68.2
1.3	-	-	-	-	-	-	0
<5	-	-	-	-	-	-	<5
<1	-	-	-	-	-	-	<1
<10	-	-	-	-	-	-	50
90	-	-	-	-	-	-	<10
<100	-	-	-	-	-	-	400
<100	-	-	-	-	-	-	400
<10	-	-	-	-	-	-	<10
<10	-	-	-	-	-	-	<10
<4	-	-	-	-	-	-	26
<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

Note: Treated water was not being discharged at Talbingo Reservoir at the time of EPL sampling.

There is no 100th percentile limit for Nitrogen (Total).

* 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.

- Samples not required

[^] 90 Percentile concentration limit/100 Percentile limit

[#] Inflows to STP and CWTP do not directly correspond to outflow at RO as much of the water is reused on site

Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01-30 June 2025 - Volumes

Date
1/06/2025
2/06/2025
3/06/2025
4/06/2025
5/06/2025
6/06/2025
7/06/2025
8/06/2025
9/06/2025
10/06/2025
11/06/2025
12/06/2025
13/06/2025
14/06/2025
15/06/2025
16/06/2025
17/06/2025
18/06/2025
19/06/2025
20/06/2025
21/06/2025
22/06/2025
23/06/2025
24/06/2025
25/06/2025
26/06/2025
27/06/2025
28/06/2025
29/06/2025
30/06/2025

EPL 43 *	EPL 50 ^
Discharge volume (Megalitres)	
-	-
-	-
-	-
0.76	-
-	-
-	0.53
-	0.08
-	0.11
-	0.31
-	0.50
1.32	-
-	-
-	0.39
-	0.92
-	0.18
-	0.34
-	0.26
-	0.05
1.65	0.08
-	-
-	0.35
-	-
-	0.52
0.39	0.76
-	0.66
-	0.63
0.59	1.00
-	0.60
0.40	0.40
0.23	0.89

EPL 44	EPL 45	EPL 47	EPL 48	EPL 49
Discharge volume (Megalitres)				
0.29	0.04	0.23	0.04	0.75
0.51	0.05	0.19	0.13	0.71
0.42	0.05	0.17	0.09	0.69
0.40	0.04	0.16	0.09	0.63
0.20	0.02	0.20	0.06	0.09
0.01	0.06	0.30	0.10	0.29
0.67	0.06	0.17	0.10	0.73
0.48	0.07	0.27	0.08	0.61
0.41	0.06	0.23	0.07	0.48
0.36	0.10	0.23	0.08	0.32
0.12	0.07	0.25	0.08	0.63
0.14	0.10	0.32	0.11	0.66
0.13	0.03	0.10	0.04	0.31
0.24	0.07	0.25	0.09	0.46
0.03	0.06	0.21	0.07	0.16
0.04	0.06	0.20	0.06	0.08
0.04	0.07	0.23	0.08	0.11
0.03	0.07	0.38	0.07	0.11
0.02	0.07	0.06	0.07	0.03
0.01	0.07	0.23	0.08	0.02
0.04	0.08	0.24	0.08	0.09
0.16	0.07	0.22	0.08	0.06
0.29	0.11	0.21	0.05	0.01
0.25	0.07	0.21	0.08	0.02
0.39	0.08	0.23	0.08	0.03
0.39	0.07	0.32	0.08	0.002
0.20	0.07	0.18	0.08	0.001
0.03	0.07	0.26	0.09	0.0004
0.30	0.06	0.24	0.09	0.001
0.39	0.06	0.22	0.07	0.002

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.

- * The maximum flow rate capacity for Lobs Hole STP/PWTP during the reporting month was 7.75 L/s
- ^ The maximum flow rate capacity for Tantangara STP/PWTP during the reporting month was 7.63 L/s
- Water not discharged on this day

Snowy Hydro 2.0 Main Works EPL Sampling: 01 - 31 July 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 Approval Conditions, Environmental Protection Licence No 21266 - Variation 23 July 2025, and the approved Water Management Plan to ensure that works are not impacting on nearby receiving waters.	
A map showing the location of each of the EPL named sampling points is provided after the results tables.	
Groundwater Results: EPL56 has elevated concentrations of total nitrogen (TN) at 400ug/L, but the downgradient locations recorded increased concentrations of EPL57 of 2080ug/L, and EPL58 at 53,400 ug/L. EPL57 and EPL58 have increased significantly, and it is evident in the results that the TN has risen as we get further down the watercourse. The phosphorus has not increased in the same trends seen for TN, although they are above the WQO's, they are not linear in their values. EPL95 which is measured at similar depths to EPL58 slightly lower exceedances but similar concentrations for TN. The results for TN within Tantangara groundwater sampling locations (EPL68, 69, 103, 104, 105) are all exceeding with differing levels, none of which are linear or displaying obvious trends displaying correlation between upgradient and down gradient locations. The reported elevated concentrations for ground water locations within Lickhole Gully have previously been recorded above the WQO's for TN. Heavy metals have been reported for multiple sites as above WQO's. More specifically, GF01 (Nickel, Zinc, Copper, Iron, and Arsenic – all dissolved), Lickhole Gully (Arsenic, Chromium, Copper, Iron, Nickel, and Zinc), Ravine Bay (Aluminium, Chromium, Copper, Zinc). Reservoir Results: The results for Talbingo reservoir returned concentrations that indicate the environmental conditions are consistent with the ambient conditions. Although Ammonia has indicated an exceedance at EPL107, it is within the objectives for the other locations up and down stream for the reservoir. All other parameters have been recorded within the WQO's, other than the Nitrite and Nitrates which are slightly above, although the Total Nitrogen is below the objectives. For Tantangara Reservoir there are more nutrient levels exceeding our WQO's for most locations sampled within the area. Ammonia is slightly exceeding for all locations but EPL39 and EPL40, which is upstream of construction. Total Nitrogen, Reactive and Total Phosphorus have exceeded for most of the locations on the reservoir. Aluminium is the only metal that has returned concentrations above the WQO's for the locations on the reservoir. These concentration levels for parameters exceeding the WQO's have been recorded from previous sample periods for these locations. Surface Water Results: EPL24 has returned elevated concentrations of TN although all other parameters except for Zinc have identified all other parameters have met the WQO's for this location. Locations along the natural water ways of the Murrumbidgee River, Nungar creek, and Eucumbene River have returned slight exceedances for TN, Phosphorus, and some select heavy metals. EPL52 and EPL555 located within the GF01 area have returned exceedances for TN at levels that have been recorded and reported on from previous sampling periods. There are a few select heavy metals that are also exceeding for these locations, however EPL55 is below EPL52 in location, and as such is showing lesser concentration volumes than EPL52. Discharge Results: Results for the discharge locations met the adopted Water Quality Objectives (WQOs) during the discharge periods.	

The publication of this pollution monitoring data is carried out in accordance with section 66 (6) of the Protection of the Environment Operations Act 1997 (NSW).

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Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01-31 July 2025 - Groundwater

Analysis	Unit	Unit of Reporting	Water Quality Objective Value*
Physicochemical			
pH	pH (25°C)	—	6.5–8.5
Dissolved Oxygen	mg/L	DO	5–8
Biological/Chemical			
Oxidation Potential	mg/L	—	No Water Quality Objective Value
Chemical Oxygen Demand	mg/L	—	No Water Quality Objective Value
Biochemical Oxygen Demand	mg/L	—	No Water Quality Objective Value
Ammonia Nitrogen	mg/L	—	No Water Quality Objective Value
Nitrate Nitrogen	mg/L	—	No Water Quality Objective Value
Reactive Phosphorus	mg/L	—	No Water Quality Objective Value
Calcium	mg/L	—	No Water Quality Objective Value
Metals			
As	mg/L	5	No Water Quality Objective Value
As (soluble as AsO ₄ ³⁻)	mg/L	5	No Water Quality Objective Value
Aluminum	mg/L	10	15
Arsenic & Arsenic Acid (AsO ₄ ³⁻)	mg/L	10	15
Calcium Nitrogen	mg/L	—	No Water Quality Objective Value
Copper	mg/L	0.5	0.8
Reactive Phosphorus	mg/L	1	15
Chromium (VI)	mg/L	0.5	0.8
Chromium (VI) (soluble)	mg/L	0.5	0.8
Copper	mg/L	0.5	No Water Quality Objective Value
Chromium (VI)	mg/L	0.5	No Water Quality Objective Value
Iron	mg/L	2	No Water Quality Objective Value
Lead	mg/L	0.5	No Water Quality Objective Value
Lead (soluble)	mg/L	0.5	No Water Quality Objective Value
Manganese	mg/L	0.5	1
Manganese (soluble)	mg/L	0.5	No Water Quality Objective Value
Manganese (soluble)	mg/L	0.5	1.00
Nickel	mg/L	0.5	No Water Quality Objective Value
Nickel (soluble)	mg/L	0.5	8
Nickel (soluble)	mg/L	0.5	No Water Quality Objective Value
Nickel (soluble)	mg/L	0.5	1.00
Lead (soluble)	mg/L	0.05	1.00
Zinc	mg/L	1	No Water Quality Objective Value
Zinc (soluble)	mg/L	1.4	—

[illegible]

* Water Quality Objective values for groundwater refer to the default trigger values for physical and chemical stressors in south-east Australia (land rivers) for the protection of 90% of aquatic species ANZECC / ARMCANZ (2000), they are not pollutant limits imposed by EPA 21266.

Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01-31 July 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	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 ^A
Biochemical Oxygen Demand	mg/L	2	1/5 ^A

* Water Quality Objective values for Talbingo and Tantangara Reservoir refer to the default trigger values for physical and chemical stressors in south-east Australia (fresh lakes and reservoirs) for the protection of 95% of aquatic species ANZECC / ARMCANZ (2000), they are not pollutant limits imposed by EPL 21266.

** Algal blooms can present as faecal coliforms

^A 90th percentile concentration limits / 100 percentile concentration limits

- Sample not required at this location.

EPL10	EPL11	EPL28	EPL29	EPL32	EPL38	EPL39	EPL40	EPL46	EPL51	EPL107	EPL108	EPL109
27/07/2025	27/07/2027	20/07/2025	20/07/2025	20/07/2025	5/07/2025	5/07/2025	20/07/2025	20/07/2025	20/07/2025	22/07/2025	22/07/2025	22/07/2025
8.38	7.83	7.09	7.19	7.13	7.4	6.69	7.29	7.28	7.2	7.32	7.38	7.58
37	30	11.4	17.9	18	29	13	10.7	18.7	18.2	21	21	21
116	133	113	173.1	171	285	299	177.6	118	144	169	175	166
8.11	8.63	4.1	5.7	5.5	6.77	6.47	3.7	5.2	5.5	9.4	9.3	9.6
93.3	115.5	83.9	86.9	86.6	64	69.4	85.5	85.9	86.5	92.1	91	91.5
3.4	2.2	2.86	3.76	3.9	10.5	5.2	2.14	4.01	4.28	0.85	1.04	0.8
<5	<5	<5	<5	<5	14	<5	<5	<5	<5	<5	<5	<5
12	12	2	5	5	5	<1	2	5	5	5	5	5
<10	<10	30	110	90	120	<10	<10	160	120	50	10	<10
50	30	30	60	60	80	30	20	60	60	30	30	30
200	200	100	300	300	400	200	<100	400	300	200	100	200
200	200	100	400	400	500	200	<100	500	400	200	100	200
<10	<10	<10	<10	<10	10	10	<10	<10	<10	<10	<10	<10
<10	20	10	<10	<10	50	40	<10	30	30	<10	<10	20
<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
12	11	49	58	62	45	41	24	56	60	<5	<5	7
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
0.7	<0.2	0.2	0.3	0.3	<0.2	<0.2	<0.2	0.3	0.3	<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	<0.5
17	12	60	130	130	119	40	24	128	131	6	4	4
<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	0.2
1.6	0.7	6.7	18.9	19.9	36.2	4.3	1.8	20.3	19.8	<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
<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2	<1	<1	<1	<1	3	2	<1	<1	<1	<1	<1	<1
6	2	<1	-	-	-	-	-	-	<1	-	-	-
<2	<2	3	-	-	-	-	-	-	<2	-	-	-

* Water Quality Objective values for surface water refer to the default trigger values for physical and chemical stressors in south-east Australia (upland rivers) for the protection of 99% of aquatic species ANZECC / ARMCANZ (2018), they are not pollutant limits imposed by EPA 21266.

Snowy Hydro 2.0 Main Works

Monthly EPL Sampling: 01-31 July 2025 - 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	-	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	200/2000 [^]
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	No Water Quality Objective Value
Phosphorus (Total)	µg/L	10	100/300 [^]
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	5

EPL 41	EPL 43	EPL 44	EPL 45	EPL 47	EPL 48	EPL 49	EPL 50
6/07/2025							20/07/2025
-	0.0000	0.3320	0.0647	0.2330	0.0817	0.0271	-
-	-	-	-	-	-	-	-
7.55	-	-	-	-	-	-	7.31
7	-	-	-	-	-	-	47.7
221	-	-	-	-	-	-	115.6
12.87	-	-	-	-	-	-	6.4
70.8	-	-	-	-	-	-	87.3
0.09	-	-	-	-	-	-	0.14
<5	-	-	-	-	-	-	<5
<1	-	-	-	-	-	-	<1
20	-	-	-	-	-	-	20
60	-	-	-	-	-	-	<10
<100	-	-	-	-	-	-	<100
<100	-	-	-	-	-	-	<100
<10	-	-	-	-	-	-	<10
<10	-	-	-	-	-	-	<10
<4	-	-	-	-	-	-	<4
<1.0	-	-	-	-	-	-	<1.0
<5	-	-	-	-	-	-	<5
<0.2	-	-	-	-	-	-	<0.2
<0.2	-	-	-	-	-	-	0.7
<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

Note: Treated water was not being discharged at Talbingo Reservoir at the time of EPL sampling.

There is no 100th percentile limit for Nitrogen (Total).

* 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.

- Samples not required

[^] 90 Percentile concentration limit/100 Percentile limit

[#] Inflows to STP and CWTTP do not directly correspond to outflow at RO as much of the water is reused on site

Snowy Hydro 2.0 Main Works

Monthly EPL Sampling: 01-31 July 2025 - Volumes

Date
1/07/2025
2/07/2025
3/07/2025
4/07/2025
5/07/2025
6/07/2025
7/07/2025
8/07/2025
9/07/2025
10/07/2025
11/07/2025
12/07/2025
13/07/2025
14/07/2025
15/07/2025
16/07/2025
17/07/2025
18/07/2025
19/07/2025
20/07/2025
21/07/2025
22/07/2025
23/07/2025
24/07/2025
25/07/2025
26/07/2025
27/07/2025
28/07/2025
29/07/2025
30/07/2025
31/07/2025

EPL 43 *	EPL 50 ^
Discharge volume (Megalitres)	
0.34	-
-	-
0.87	0.62
-	0.72
-	0.68
-	0.30
2.11	0.92
-	-
-	-
0.57	-
0.32	-
0.67	-
0.70	-
0.37	0.87
-	0.46
-	0.58
0.44	0.81
-	0.55
-	-
0.58	0.20
-	0.10
0.83	0.16
0.46	0.84
0.99	0.50
-	0.53
-	0.73
-	0.93
1.00	1.17
-	1.13
1.02	0.76
-	0.44

EPL 44	EPL 45	EPL 47	EPL 48	EPL 49
Discharge volume (Megalitres)				
0.01	0.06	0.23	0.07	0.002
0.01	0.06	0.18	0.01	0.002
0.01	0.06	0.16	0.01	0.002
0.61	0.06	0.15	0.01	0.002
0.14	0.04	0.26	0.30	0.03
0.30	0.06	0.26	0.08	0.03
0.41	0.06	0.20	0.14	0.05
0.35	0.06	0.28	0.07	0.01
0.28	0.07	0.22	0.06	0.003
0.57	0.10	0.24	0.03	0.02
0.15	0.05	0.22	0.10	0.23
0.24	0.06	0.27	0.06	0.001
0.60	0.02	0.27	0.08	0.002
0.26	0.05	0.13	0.07	0.004
0.38	0.05	0.19	0.08	0.01
0.34	0.05	0.19	0.08	0.03
0.43	0.06	0.24	0.08	0.02
0.24	0.06	0.37	0.09	0.01
0.58	0.07	0.10	0.08	0.03
0.47	0.08	0.26	0.08	0.004
0.34	0.06	0.25	0.07	0.02
0.53	0.09	0.24	0.08	0.16
0.43	0.12	0.24	0.07	0.08
0.23	0.07	0.26	0.09	0.03
0.52	0.09	0.26	0.13	0.004
0.01	0.07	0.34	0.03	0.019
0.39	0.08	0.19	0.14	0.004
0.26	0.07	0.26	0.08	0.006
0.40	0.08	0.22	0.09	0.007
0.48	0.09	0.31	0.09	0.002
0.56	0.07	0.29	0.09	0.06

- 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.

* The maximum flow rate capacity for Lobs Hole STP/PWTP during the reporting month was 6.94 L/s

^ The maximum flow rate capacity for Tantangara STP/PWTP during the reporting month was 3.47 L/s

Snowy Hydro 2.0 Main Works EPL Sampling: 01 - 31 August 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 Approval Conditions, Environmental Protection Licence No 21266 - Variation 23 July 2025, and the approved Water Management Plan to ensure that works are not impacting on nearby receiving waters.	
A map showing the location of each of the EPL named sampling points is provided after the results tables.	
Groundwater Results: In August, we were unable to sample locations EPL2, EPL4, and EPL25 due to flooding in their surrounding areas, which compromised the accurate representation of conditions in these locations. At EPL1, we observed an increase in Total Nitrogen and Nitrite + Nitrate as N concentrations, alongside a significant decrease in total phosphorus levels during this previous quarter period. In contrast, locations for sites such as GFO1, LHG, and Ravine Bay in Lobs Hole exhibited stable concentrations consistent with previous reports. Meanwhile, EPL58 and EPL95, located downstream of GFO1, continue to show the highest concentrations in the area. In the LHG region, locations including EPL81, EPL83, EPL87, and EPL89 reported Total Kjeldahl Nitrogen concentrations ranging from 500 µg/L to 1000 µg/L. Sampling points in Tantangara maintained stable pH levels between 6.1 and 6.7, although we noted an increase in NTU, likely due to the 115.4 mm of precipitation that fell in the area. Notably, EPL105 recorded the highest Total Nitrogen concentration of 4200 µg/L. Reservoir Results: For this period, sampling points within the Talbingo Reservoir showed a slight increase in Ammonia concentrations for EPL10, with a concentration of 30 µg/L, compared to EPL11, which met its WQO. However, for Nitrite + Nitrate as N (NOx), concentrations were reported between 40 µg/L and 50 µg/L, which is also the case for locations within the Tantangara Reservoir. While the majority of sampling points remained within the acceptable limits for Total Nitrogen, some, such as EPL32, showed a slight uptick, registering a concentration of 400 µg/L. Additionally, several sites, including EPL11, EPL39, and EPL51, recorded a slight increase in Total Phosphorus, with concentrations ranging from 20 µg/L to 40 µg/L. However, these values are consistent with historical data and align with baseline water quality results, indicating stability in the overall water quality within the Reservoirs. Surface Water Results: In August, some locations, including EPL5, EPL30, EPL31, EPL33, and EPL34, recorded high pH concentrations, which are within their historical ranges, fluctuating between 8.0 and 8.16. Meanwhile, EPL24, EPL55, and EPL122 continue to show the highest surface water concentrations in Lobs Hole. This is likely attributed to their location downstream of the GF01 leachate area. These locations remain under TARP conditions and are monitored weekly. Kellys Plain Creek locations, such as EPL30 and EPL31, recorded a slight increase in Dissolved Aluminium concentrations. Additionally, Total Nitrogen concentrations at locations like EPL33, EPL34, EPL36, and EPL37, which were between 200 µg/L and 500 µg/L, were influenced by Total Kjeldahl Nitrogen, which recorded similar concentration levels. As for the leachate storage locations, they maintain their conditions and are continuously monitored for water reuse once they meet the criteria. Discharge Results: Results for the discharge locations met the adopted Water Quality Objectives (WQOs) during the discharge periods.	

The publication of this pollution monitoring data is carried out in accordance with section 66 (6) of the Protection of the Environment Operations Act 1997 (NSW).

Snowy Hydro Limited gives no warranty or representation regarding the data suitability for any particular purpose.

Snowy Hydro Limited excludes all liability to any person for loss or damage of any kind (however caused, including but not limited to by negligence) arising whether directly or indirectly from or relating in any way to the use of this data, whether in whole or in part.

Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01-31 August 2025 - Groundwater

Region	Unit	Level of Reporting	Water Quality Objective Value	EP101	EP1	EP2	EP3	EP4	EP5	EP6	EP7	EP8	EP9	EP10	EP11	EP12	EP13	EP14	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
Administrative Regions	Region	Level of Reporting	Water Quality Objective Value	EP101	EP1	EP2	EP3	EP4	EP5	EP6	EP7	EP8	EP9	EP10	EP11	EP12	EP13	EP14	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
Administrative Regions	Region	Level of Reporting	Water Quality Objective Value	EP101	EP1	EP2	EP3	EP4	EP5	EP6	EP7	EP8	EP9	EP10	EP11	EP12	EP13	EP14	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
Administrative Regions	Region	Level of Reporting	Water Quality Objective Value	EP101	EP1	EP2	EP3	EP4	EP5	EP6	EP7	EP8	EP9	EP10	EP11	EP12	EP13	EP14	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
Administrative Regions	Region	Level of Reporting	Water Quality Objective Value	EP101	EP1	EP2	EP3	EP4	EP5	EP6	EP7	EP8	EP9	EP10	EP11	EP12	EP13	EP14	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
Administrative Regions	Region	Level of Reporting	Water Quality Objective Value	EP101	EP1	EP2	EP3	EP4	EP5	EP6	EP7	EP8	EP9	EP10	EP11	EP12	EP13	EP14	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
Administrative Regions	Region	Level of Reporting	Water Quality Objective Value	EP101	EP1	EP2	EP3	EP4	EP5	EP6	EP7	EP8	EP9	EP10	EP11	EP12	EP13	EP14	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
Administrative Regions	Region	Level of Reporting	Water Quality Objective Value	EP101	EP1	EP2	EP3	EP4	EP5	EP6	EP7	EP8	EP9	EP10	EP11	EP12	EP13	EP14	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
Administrative Regions	Region	Level of Reporting	Water Quality Objective Value	EP101	EP1	EP2	EP3	EP4	EP5	EP6	EP7	EP8	EP9	EP10	EP11	EP12	EP13	EP14	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
Administrative Regions	Region	Level of Reporting	Water Quality Objective Value	EP101	EP1	EP2	EP3	EP4	EP5	EP6	EP7	EP8	EP9	EP10	EP11	EP12	EP13	EP14	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
Administrative Regions	Region	Level of Reporting	Water Quality Objective Value	EP101	EP1	EP2	EP3	EP4	EP5	EP6	EP7	EP8	EP9	EP10	EP11	EP12	EP13	EP14	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
Administrative Regions	Region	Level of Reporting	Water Quality Objective Value	EP101	EP1	EP2	EP3	EP4	EP5	EP6	EP7	EP8	EP9	EP10	EP11	EP12	EP13	EP14	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
Administrative Regions	Region	Level of Reporting	Water Quality Objective Value	EP101	EP1	EP2	EP3	EP4	EP5	EP6	EP7	EP8	EP9	EP10	EP11	EP12	EP13	EP14	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
Administrative Regions	Region	Level of Reporting	Water Quality Objective Value	EP101	EP1	EP2	EP3	EP4	EP5	EP6	EP7	EP8	EP9	EP10	EP11	EP12	EP13	EP14	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
Administrative Regions	Region	Level of Reporting	Water Quality Objective Value	EP101	EP1	EP2	EP3	EP4	EP5	EP6	EP7	EP8	EP9	EP10	EP11	EP12	EP13	EP14	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																			

* Water Quality Objective values for groundwater refer to the default trigger values for physical and chemical stressors in south-east Australia (upland rivers) for the protection of 98% of aquatic species ANZECC / ARMCANZ (2000), they are not pollutant limits imposed by EPA 21266.

Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01-31 August 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	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 ^{**}
Biochemical Oxygen Demand	mg/L	2	1/5 ^{**}

EPL10	EPL11	EPL28	EPL29	EPL32	EPL38	EPL39	EPL40	EPL46	EPL51	EPL107	EPL108	EPL109
20/08/2025	20/08/2025	6/08/2025	6/08/2025	6/08/2025	6/08/2025	2/08/2025	6/08/2025	6/08/2025	6/08/2025	20/08/2025	20/08/2025	20/08/2025
7.74	7.9	7.29	6.93	6.9	6.91	7.66	6.97	6.9	6.93	8.25	8.16	7.96
50	41	22	21	22	20	19	16	23	22	70	44	36
227	207	205	239	239	233	233	222	243	239	141	175	192
8.37	7.77	5.73	4.93	4.89	4.98	5.16	5.54	4.89	4.86	6.9	6.94	7.53
61	66.3	92.9	91.4	72.5	68.1	86.2	77.2	86.1	91.3	83.2	74.9	72
2.7	0.3	12.8	7.2	6.1	6.8	3.7	4.9	6.3	7	17.9	6	6.7
<5	<5	<5	<5	<5	<5	<5	<5	7	<5	<5	<5	<5
19	14	2	2	2	2	<1	<1	2	2	12	12	12
30	<10	20	30	30	20	<10	<10	30	30	<10	<10	<10
50	50	40	40	50	40	10	10	40	40	40	40	40
200	<100	200	200	300	200	200	100	200	200	100	<100	<100
200	<100	200	200	400	200	200	100	200	200	100	<100	<100
<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
10	20	<10	<10	<10	10	40	<10	10	20	<10	<10	<10
<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
10	9	50	54	55	50	40	27	52	55	8	7	6
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	0.3	0.3	0.2	<0.2	0.2	0.3	0.3	<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	<0.5
50	15	63	69	81	71	25	30	84	83	11	10	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	<0.1
47.6	3.2	7.1	7.6	9.5	8.4	3.5	4.5	10.5	10.3	1.3	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
<0.01	<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
2	2	<1	-	-	-	-	-	-	23	-	-	-
<2	<2	2	-	-	-	-	-	-	3	-	-	-

* Water Quality Objective values for Talbingo and Tantangara Reservoir refer to the default trigger values for physical and chemical stressors in south-east Australia (fresh lakes and reservoirs) for the protection of 95% of aquatic species ANZECC / ARMCANZ (2000), they are not pollutant limits imposed by EPL 21266.

** Algal blooms can present as faecal coliforms

^ 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 August 2025 - 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	-	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	200/2000 [^]
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	No Water Quality Objective Value
Phosphorus (Total)	µg/L	10	100/300 [^]
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	5

EPL 41	EPL 43	EPL 44	EPL 45	EPL 47	EPL 48	EPL 49	EPL 50
13/08/2025							6/08/2025
-	0.0000	0.3754	0.0706	0.1472	0.0837	0.4190	-
-	-	-	-	-	-	-	-
7.48	-	-	-	-	-	-	6.96
14	-	-	-	-	-	-	192
186	-	-	-	-	-	-	224
12.38	-	-	-	-	-	-	9.04
98.5	-	-	-	-	-	-	60.1
0.08	-	-	-	-	-	-	3.4
<5	-	-	-	-	-	-	<5
<1	-	-	-	-	-	-	17
<10	-	-	-	-	-	-	20
110	-	-	-	-	-	-	90
200	-	-	-	-	-	-	200
300	-	-	-	-	-	-	300
<10	-	-	-	-	-	-	10
<10	-	-	-	-	-	-	<10
<4	-	-	-	-	-	-	<4
<1.0	-	-	-	-	-	-	<1.0
<5	-	-	-	-	-	-	<5
<0.2	-	-	-	-	-	-	<0.2
<0.2	-	-	-	-	-	-	1.0
<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

Note: Treated water was not being discharged at Talbingo or Tantangara Reservoir at the time of EPL sampling.

There is no 100th percentile limit for Nitrogen (Total).

* 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.

- Samples not required

[^] 90 Percentile concentration limit/100 Percentile limit

[#] Inflows to STP and CWTP do not directly correspond to outflow at RO as much of the water is reused on site

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

Date
1/08/2025
2/08/2025
3/08/2025
4/08/2025
5/08/2025
6/08/2025
7/08/2025
8/08/2025
9/08/2025
10/08/2025
11/08/2025
12/08/2025
13/08/2025
14/08/2025
15/08/2025
16/08/2025
17/08/2025
18/08/2025
19/08/2025
20/08/2025
21/08/2025
22/08/2025
23/08/2025
24/08/2025
25/08/2025
26/08/2025
27/08/2025
28/08/2025
29/08/2025
30/08/2025
31/08/2025

EPL 43 *	EPL 50 ^
Discharge volume (Megalitres)	
1.99	0.82
-	0.18
-	0.35
-	0.64
-	0.58
-	-
-	0.84
-	0.48
-	0.44
1.40	1.19
-	0.77
-	0.75
1.18	0.70
-	1.08
-	1.04
-	0.98
-	1.00
-	0.86
1.54	1.10
-	1.11
-	0.81
-	0.18
1.53	-
1.45	0.35
-	0.57
-	-
-	-
-	-
-	-
-	-

EPL 44	EPL 45	EPL 47	EPL 48	EPL 49
Discharge volume (Megalitres)				
0.56	0.08	0.20	0.09	0.058
0.45	0.09	0.16	0.08	0.001
0.31	0.07	0.17	0.09	0.0004
0.37	0.08	0.24	0.08	0.43
0.16	0.04	0.00	0.10	0.61
0.36	0.09	0.11	0.08	0.56
0.38	0.09	0.11	0.09	0.69
0.36	0.07	0.11	0.09	0.43
0.24	0.10	0.09	0.08	0.20
0.38	0.13	0.11	0.09	0.39
0.34	0.09	0.15	0.10	0.46
0.16	0.08	0.15	0.07	0.71
0.43	0.08	0.15	0.08	0.15
0.44	0.09	0.14	0.08	0.17
0.15	0.07	0.12	0.08	0.66
0.56	0.08	0.14	0.09	0.59
0.47	0.07	0.12	0.07	0.46
0.35	0.07	0.10	0.08	0.68
0.34	0.08	0.10	0.09	0.51
0.33	0.08	0.13	0.06	0.23
0.30	0.07	0.16	0.09	0.47
0.45	0.06	0.21	0.09	0.41
0.66	0.06	0.17	0.06	0.39
0.49	0.04	0.14	0.08	0.28
0.47	0.04	0.15	0.19	0.55
0.39	0.04	0.19	0.07	0.39
0.30	0.06	0.19	0.09	0.73
0.32	0.04	0.18	0.10	0.63
0.29	0.05	0.19	0.04	0.28
0.44	0.05	0.23	0.04	0.439
0.33	0.08	0.19	0.03	0.58

- 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.

* The maximum flow rate capacity for Lobs Hole STP/PWTP during the reporting month was 6.48 L/s

^ The maximum flow rate capacity for Tantangara STP/PWTP during the reporting month was 7.87 L/s

-- Water not discharged on this day



Snowy Hydro 2.0 Main Works EPL Sampling: 01 - 30 September 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 Approval Conditions, Environmental Protection Licence No 21266 - Variation 23 July 2025, and the approved Water Management Plan to ensure that works are not impacting on nearby receiving waters.	
A map showing the location of each of the EPL named sampling points is provided after the results tables.	
Groundwater: Elevated concentrations of nutrients have continued to be observed in groundwater monitoring wells across the Snowy 2.0 sites, most notably downgradient of permanent spoil emplacement areas. As reported previously, bores within the area of influence of GF01 have the greatest concentrations in nutrients (e.g. EPL58 - 42,600 µg/L Total Nitrogen). Exceedances in Total Nitrogen were also observed in the Main Yard area (up to 13,500 µg/L at EPL87), Ravine Bay (up to 700 µg/L at EPL113) and Tantangara (up to 3,500 µg/L at EPL105). Reservoir: Minor exceedances in nutrients were observed in both Talbingo and Tantangara Reservoirs in the month of September, however, concentrations are consistent with previous reports indicating stability in the overall water quality. An exceedance in aluminium at EPL28 (147 µg/L) has been noted will be examined during the next reporting period. Surface Water: Consistent with previous reporting periods, EPL24, EPL55, and EPL122 continue to show the highest surface water concentrations of nutrients in Lobs Hole, aside from leachate storage infrastructure. This is likely attributed to their location downstream of the GF01 leachate area and the ephemeral nature of the waterways. These locations remain under TARP conditions and are monitored weekly. High nutrient concentrations were also observed at EPL36 and EPL37, likely attributed to low flows and agricultural impact. Discharge: Compliance testing at EPL50 on the 17th of September met criteria for discharge however EPL41 on the 7th of the September did not meet criteria for discharge as TN was slightly elevated. Non compliant discharges have been investigated in Incident Report S2-ENV-WA-SFW-INC-FGJV00036. Temperatures for both sampling rounds are not considered reflective of conditions as temperatures were recorded a prior to discharge. Review of Discharge Procedure documentation has commenced as a result of recent non-compliance.	

The publication of this pollution monitoring data is carried out in accordance with section 66 (6) of the Protection of the Environment Operations Act 1997 (NSW).

Snowy Hydro Limited gives no warranty or representation regarding the data suitability for any particular purpose.

Snowy Hydro Limited excludes all liability to any person for loss or damage of any kind (however caused, including but not limited to by negligence) arising whether directly or indirectly from or relating in any way to the use of this data, whether in whole or in part.

[illegible]

* Water Quality Objective values for groundwater refer to the default trigger values for physical and chemical stressors in south-east Australia (upland rivers) for the protection of 99% of aquatic species ANZECC / ARMCANZ (2000); they are not pollutant limits imposed by EPA 21266.

[illegible]

- Sample not required at this location.

Snowy Hydro 2.0 Main Works

Monthly EPL Sampling: 01-30 September 2025 - 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	-	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	200/2000 [^]
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	350/- [^]
Reactive Phosphorus	µg/L	1	No Water Quality Objective Value
Phosphorus (Total)	µg/L	10	100
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	5

EPL 41	EPL 43	EPL 44	EPL 45	EPL 47	EPL 48	EPL 49	EPL 50
7/09/2025							17/09/2025
-	0.0000	0.4031	0.0471	0.1514	0.0465	0.3649	-
-	-	-	-	-	-	-	-
6.65	-	-	-	-	-	-	6.75
190	-	-	-	-	-	-	109
269	-	-	-	-	-	-	240
14.38	-	-	-	-	-	-	10.35
81.8	-	-	-	-	-	-	86.2
3.69	-	-	-	-	-	-	4.3
<5	-	-	-	-	-	-	<5
<1	-	-	-	-	-	-	<1
<10	-	-	-	-	-	-	<10
50	-	-	-	-	-	-	40
300	-	-	-	-	-	-	<100
400	-	-	-	-	-	-	<100
<10	-	-	-	-	-	-	<10
20	-	-	-	-	-	-	50
<4	-	-	-	-	-	-	<4
<1.0	-	-	-	-	-	-	<1.0
<5	-	*	-	-	-	-	<5
<0.2	-	*	-	-	-	-	<0.2
<0.2	-	*	-	-	-	-	0.5
<0.5	-	*	-	-	-	-	<0.5
<2	-	*	-	-	-	-	<2
<0.1	-	*	-	-	-	-	<0.1
<0.5	-	*	-	-	-	-	<0.1
<0.5	-	*	-	-	-	-	<0.5
<0.01	-	*	-	-	-	-	<0.01
<0.1	-	*	-	-	-	-	<1
<1	-	-	-	-	-	-	<1
<2	-	-	-	-	-	-	<2

There is no 100th percentile limit for Nitrogen (Total).

* 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.

- Samples not required

[^] 90 Percentile concentration limit/100 Percentile limit

[#] Inflows to STP and CWTP do not directly correspond to outflow at RO as much of the water is reused on site

Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01-30 September 2025 - Volumes

Date
1/09/2025
2/09/2025
3/09/2025
4/09/2025
5/09/2025
6/09/2025
7/09/2025
8/09/2025
9/09/2025
10/09/2025
11/09/2025
12/09/2025
13/09/2025
14/09/2025
15/09/2025
16/09/2025
17/09/2025
18/09/2025
19/09/2025
20/09/2025
21/09/2025
22/09/2025
23/09/2025
24/09/2025
25/09/2025
26/09/2025
27/09/2025
28/09/2025
29/09/2025
30/09/2025

EPL 43 *	EPL 50 ^
Discharge volume (Megalitres)	
0.79	-
-	0.16
-	0.06
-	0.59
-	0.42
-	-
-	0.72
-	0.73
-	1.11
0.64	1.12
0.35	-
-	-
-	-
0.65	-
0.85	1.16
0.40	0.28
0.44	0.13
0.57	-
0.38	0.28
-	0.09
-	0.04
0.53	0.04
-	0.04
-	0.19
-	0.67
-	0.18
0.68	0.004
1.17	0.16
-	0.31
-	0.50

EPL 44	EPL 45	EPL 47	EPL 48	EPL 49
Discharge volume (Megalitres)				
0.33	0.09	0.19	0.09	0.58
0.39	0.09	0.27	0.09	0.14
0.43	0.07	0.19	0.08	1.64
0.36	0.05	0.15	0.10	0.52
0.18	0.06	0.13	0.07	0.68
0.41	0.07	0.13	0.08	0.39
0.20	0.07	0.21	0.07	0.62
0.34	0.06	0.18	0.09	0.55
0.47	0.05	0.21	0.09	0.01
0.64	0.08	0.18	0.07	0.53
0.42	0.06	0.19	0.08	0.52
0.38	0.06	0.19	0.10	0.75
0.45	0.05	0.21	0.06	0.54
0.19	0.05	0.16	0.07	0.71
0.26	0.06	0.22	0.08	0.74
0.44	0.06	0.16	0.10	0.72
0.35	0.06	0.19	0.09	0.67
0.30	0.08	0.16	0.00	0.62
0.40	0.06	0.20	0.00	0.00
0.36	0.06	0.20	0.00	0.00
0.19	0.06	0.21	0.00	0.00
0.54	0.07	0.19	0.00	0.00
0.70	0.00	0.18	0.00	0.00
0.54	0.00	0.24	0.00	0.00
0.32	0.00	0.00	0.00	0.00
0.42	0.00	0.00	0.00	0.00
0.41	0.00	0.00	0.00	0.00
0.46	0.00	0.00	0.00	0.00
0.60	0.00	0.00	0.00	0.00
0.66	0.00	0.00	0.00	0.00

- 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.

* The maximum flow rate capacity for Lobs Hole STP/PWTP during the reporting month was 7.63 L/s

^ The maximum flow rate capacity for Tantangara STP/PWTP during the reporting month was 18.68 L/s

-- Water not discharged on this day



Snowy Hydro 2.0 Main Works EPL Sampling: 01 - 31 October 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 Approval Conditions, Environmental Protection Licence No 21266 - Variation 20 December 2024, and the approved Water Management Plan to ensure that works are not impacting on nearby receiving waters.	
A map showing the location of each of the EPL named sampling points is provided after the results tables.	
Groundwater: Concentrations of nutrients in groundwater monitoring wells were observed above the WQO's across the Snow 2.0 sites, most notably, within the area of influence of permanent spoil emplacement areas. Highest concentrations of nutrients were observed downgradient of GF01 with EPL58 and EPL95 reporting 54,600 µg/L and 46,500 µg/L respectively. Monitoring bores EPL90, EPL96 and EPL97 also continue to report exceedances in total nitrogen (600 – 24,500 µg/L). Exceedances in Total Nitrogen were also observed in the Main Yard area (most notably at EPL87 - 11,500 µg/L), Ravine Bay (up to 300 µg/L at EPL113 and EPL115) and Tantangara (up to 2,500 µg/L at EPL105). A pH gradient has been observed across the Tantangara PSE with pH values of 6.16 – 6.76 in upgradient bores, decreasing to 5.39 - 5.52 in downgradient bores. This will be investigated further in the next reporting period. Concentrations of select metals were observed above the WQO's in some groundwater monitoring wells. Notably, high concentrations of Dissolved Iron in EPL81 and EPL82 and EPL117 (2000 µg/L, 2210 µg/L and 3180 µg/L respectively). Reservoir: Seasonal warming has resulted in notable increases in reservoir surface water temperatures, with Talbingo Reservoir exhibiting a rise of approximately 7°C and Tantangara Reservoir increasing by around 5°C. An exceedance in aluminium at EPL28 noted in the previous reporting period has decreased to the below the WQO (147 µg/L to 29 µg/L). Minor exceedances of the WQO's were also observed in nutrient concentrations. Surface Water: Leachate storage infrastructure continues to exhibit the highest nutrient concentrations and electrical conductivity across the monitoring network. Consistent with previous reporting periods, nutrient concentrations at EPL24, and EPL122 exceed the WQO's, likely due the ephemeral nature of the waterways and proximity to GF01. Elevated nutrient concentrations were also recorded at EPL36 and EPL37, likely influenced by low flows and hooved stock interaction. Discharge: Amendments to Condition L2.4 within EPL21266 were included within the September variation (understood to comprise the latest license). The amendments included increased discharge analytical limits for key contaminants of concern. Noting this, the analytical results for EPL41 and EPL50 were observed to comply with the updated criteria.	

The publication of this pollution monitoring data is carried out in accordance with section 66 (6) of the Protection of the Environment Operations Act 1997 (NSW).

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Snowy Hydro Limited excludes all liability to any person for loss or damage of any kind (however caused, including but not limited to by negligence) arising whether directly or indirectly from or relating in any way to the use of this data, whether in whole or in part.

* Water Quality Objective values for groundwater refer to the default trigger values for physical and chemical stressors in south-east Australia (upland rivers) for the protection of 99% of aquatic species ANZECC / ARMCANZ (2000), they are not pollutant limits imposed by EPA 21266.

Snowy Hydro 2.0 Main Works

Monthly EPL Sampling: 01-31 October 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	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 [^]
Biochemical Oxygen Demand	mg/L	2	1/5 [^]

* Water Quality Objective values for Talbingo and Tantangara Reservoir refer to the default trigger values for physical and chemical stressors in south-east Australia (fresh lakes and reservoirs) for the protection of 95% of aquatic species ANZECC / ARMCANZ (2000), they are not pollutant limits imposed by EPL 21266.

** Algal blooms can present as faecal coliforms

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

- Sample not required at this location.

EPL10	EPL11	EPL28	EPL29	EPL32	EPL38	EPL39	EPL40	EPL46	EPL51	EPL107	EPL108	EPL109
22/10/2025	22/10/2025	19/10/2025	19/10/2025	19/10/2025	19/10/2025	18/10/2025	31/10/2025	19/10/2025	19/10/2025	22/10/2025	22/10/2025	22/10/2025
7.92	7.99	7.7	7.49	7.49	7.58	7.08	5.17	7.42	7.42	7.91	8.15	8.45
85	67	21	19	17	19	17	92	17	17	52	50	54
167	161	188	243	237	222	240	232	254	250	162	144	122
17.33	17.28	12.85	12.68	12.55	12.63	9.71	14.51	12.7	12.67	16.98	16.85	16.85
71.5	7.61	89.9	77.3	69.6	90.9	67.8	169.1	78.7	76.5	75.5	75.1	85.1
1.3	1.1	18.1	3.2	2.5	2.3	4.4	2.8	3.4	2.5	1.5	0.9	0.95
<5	<5	<5	<5	6	<5	<5	<5	8	<5	<5	<5	<5
230	31	2	2	2	2	<1	<1	2	2	19	17	17
20	<10	30	30	<10	<10	<10	<10	<10	<10	<10	<10	20
10	10	10	<10	<10	<10	10	30	<10	<10	10	10	10
200	200	100	100	200	<100	<100	200	100	100	200	200	200
200	200	100	100	200	<100	<100	200	100	100	200	200	200
<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
60	30	20	30	10	30	<10	90	90	20	30	20	<10
<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
6	6	29	26	27	26	11	15	26	23	5	6	6
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	0.3	0.3	0.3	0.3	0.2	<0.2	0.3	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	<0.5
15	14	98	67	68	71	35	44	66	62	10	10	10
<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
1.1	<0.5	22.0	1.8	1.8	3.3	1.6	2.5	1.6	1.6	<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	<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	<0.01
<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
5	1	<1	-	-	-	-	-	-	<1	-	-	-
<2	<2	<2	-	-	-	-	-	-	<2	-	-	-

Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01-31 October 2025 - Surface Water

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*
pH	-	-	6.5-8
Electrical Conductivity	µS/cm	-	30-300
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
Inorganic analysis			
TSS	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	15
Nitrite as Nitrogen as N (NO2)	µg/L	10	10
Nitrate Nitrogen Total	µg/L	100	No Water Quality Objective Value
Nitrogen (Total)	µg/L	100	250
Reactive Phosphorus	µg/L	1	10
Phosphorus (Total)	µg/L	10	50
Organics			
Carbazole Total	µg/L	4	4
Hydrocarbons			
Oil and Grease	mg/L	1	5
Metals			
Aluminium (total)	µg/L	5	No Water Quality Objective Value
Aluminium (dissolved)	µg/L	5	27
Arsenic (total)	µg/L	0.2	No Water Quality Objective Value
Arsenic (dissolved)	µg/L	0.2	0.8
Chromium (BVI-IV) (total)	µg/L	0.2	No Water Quality Objective Value
Chromium (BVI-IV) (dissolved)	µg/L	0.2	0.10
Copper (total)	µg/L	0.5	No Water Quality Objective Value
Copper (dissolved)	µg/L	0.5	1
Iron (total)	µg/L	3	No Water Quality Objective Value
Iron (dissolved)	µg/L	2	100
Lead (total)	µg/L	0.1	No Water Quality Objective Value
Lead (dissolved)	µg/L	0.1	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	No Water Quality Objective Value
Nickel (dissolved)	µg/L	0.5	8
Silver (total)	µg/L	0.01	No Water Quality Objective Value
Silver (dissolved)	µg/L	0.01	0.02
Zinc (total)	µg/L	1	No Water Quality Objective Value
Zinc (dissolved)	µg/L	1	2.4

* Water Quality Objective values for surface water refer to the default trigger values for physical and chemical stressors in south-east Australia (upland rivers) for the protection of 99% of aquatic species ANZECC / ARMCANZ (2018), they are not pollutant limits imposed by EPL 21266.

- Samples not required

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	EPL100	EPL101	EPL106	EPL110	EPL118	EPL119	EPL120	EPL122			
27/10/2025	27/10/2025	28/10/2025	28/10/2025	27/10/2025	27/10/2025	28/10/2025	28/10/2025	14/10/2025	10/10/2025	10/10/2025	6/10/2025	6/10/2025	6/10/2025	6/10/2025	6/10/2025	18/10/2025	18/10/2025	15/10/2025	Dry	Dry	Dry	Dry	Dry	11/10/2025	11/10/2025	6/10/2025	Dry	10/10/2025	10/10/2025	Dry	14/10/2025	9/10/2025	Dry	Dry	9/10/2025	14/10/2025		
7.62	7.91	7.91	7.64	7.76	8.19	8	7.93	7.19	7.05	7.65	7.22	7.33	7.31	6.9	7.04	6.95	7.22	8.68	-	-	-	-	-	8.07	7.35	8.29	-	8.44	8.63	-	8.25	7.07	-	-	7.26	8.14		
82	78	78	87	84	87	86	86	844.00	31	33	17.6	19.8	14.8	10.5	10.6	44	51	1,180.00	-	-	-	-	-	700.00	910	1,070.00	-	669	784	-	1,380.00	55	-	-	60	162		
296	301	301	164	304	286	144	145	209	146	76	106.7	90.5	124.5	141.9	132.7	232	230	192	-	-	-	-	-	77	91	71	-	75	60	-	20	157	-	-	165	145		
12.87	12.32	12.32	12.64	12.96	13.36	13.81	12.24	14.25	11.52	11.96	10.3	9.5	11.4	9	9.2	18.35	18.86	14	-	-	-	-	-	15.07	18.9	15.64	-	16.99	17.88	-	16.85	9.01	-	-	10.63	16.04		
110.7	103.3	103.3	109.4	102	99.1	130.4	153.2	79.5	87.1	87.8	87.7	87.3	89.6	85.2	86.2	76.5	73.8	73.8	-	-	-	-	-	99.4	103.5	75.8	-	10.4	80.8	-	103.3	88.7	-	-	75.3	78.5		
3.59	2.52	2.52	3.18	5.03	3.86	4.51	3.18	6	0	0	2.65	2.3	4	4.2	2.5	32.2	43.1	28.5	-	-	-	-	-	82.4	4.60	42.5	-	97.6	118	-	4.1	0	-	-	267	41.8		
<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	12	<5	<5	<5	5	23	12	10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		
27	22	32	27	27	27	27	27	234	9	9	<3	7	<3	<3	<3	33	33	370	-	-	-	-	-	18	16	22	-	28	33	-	<5	<5	-	-	88	34		
<10	<10	20	<10	<10	<10	<10	10	<10	<10	<10	10	10	40	<10	<10	10	<10	30	-	-	-	-	-	30	30	<10	-	9,230	30	-	110	30	-	-	<10	<10		
<10	<10	20	30	<10	<10	<10	<10	31,300	<10	<10	10	10	<10	10	<10	40,200	<10	<10	<10	30	<10	40,200	-	4,200	1,400	30,200	-	30,200	19,100	-	30,200	19,100	-	64,800	<100	-	<10	13,600
200	200	200	200	200	200	200	200	5,500	<100	<100	<100	100	100	100	<100	100	700	1,500	-	-	-	-	-	600	800	400	-	16,000	2,000	-	6,500	<100	-	-	<500	9,300		
200	200	200	200	200	200	200	200	36,700	<100	<100	<100	100	200	200	<100	500	700	50,800	-	-	-	-	-	4,800	2,400	10,600	-	53,300	21,100	-	71,400	<100	-	-	<500	15,800		
<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	-	-	-	-	<10	<10	<10	-	<10	<10	-	<10	<10	-	-	<10	<10		
<10	10	40	40	30	20	60	10	<10	20	<10	20	10	20	<10	10	30	10	10	-	-	-	-	-	30	20	30	-	20	100	-	<10	<10	-	-	150	40		
<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	-	-	-	-	-	<4	<4	<4	-	128	<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	<1.0		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	299	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
7	<5	15	14	7	6	15	14	<5	5	5	13	14	26	19	20	41	44	7	-	-	-	-	-	-	<5	<5	-	6	21	-	<5	<5	-	8	<5			
0.3	0.2	0.3	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	0.4	0.6	1.7	-	-	-	-	-	2.9	1.6	1.8	-	2.8	1.7	-	3.7	0.6	-	-	0.6	<0.2		
<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.3	0.3	<0.2	<0.2	<0.2	<0.2	<0.2	0.6	0.5	1.0	-	-	-	-	-	5.6	1.1	1.4	-	1.9	<0.2	-	1.9	<0.2	-	-	<0.2	<0.2		
<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	1.0	0.6	1.6	-	8.7	<0.5	-	0.7	<0.5	-	-	<0.5	0.5		
15	8	29	30	13	12	29	30	3	13	12	18	22	52	37	40	118	390	<2	-	-	-	-	-	<2	<2	<2	-	<2	<2	-	8	3	-	-	19	<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	-	-	-	-	-	<0.1	<0.1	<0.1	-	<0.1	<0.1	-	<0.1	<0.1	-	-	<0.1	<0.1		
1.1	1.7	1.5	2.3	0.9	1.0	1.3	1.7	105	1.5	1.1	1.7	2.3	1.4	5.7	5.8	25.6	30.7	<0.5	-	-	-	-	-	13.5	393	4.9	-	10.1	0.8	-	3.0	0.7	-	-	6.9	2.4		
<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.9	1.0	0.6	-	-	-	-	1.5	6.4	0.8	-	2.6	0.9	-	3.5	<0.5	-	-	<0.5	0.9		
<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	<0.01		
<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	<1	<1	<1	<1	<1	-	-	-	-	-	<1	3	<1	-	<1	<1	-	<1	<1	-	-	1	<1		

Snowy Hydro 2.0 Main Works

Monthly EPL Sampling: 01-31 October 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
6/10/2025	6/10/2025
7.81	6.86
34	90
132	67.5
17.02	14.9
66.5	85.8
0	4.09
<5	<5
<1	<1
<10	<10
160	120
300	200
500	300
<10	<10
20	<10
<4	<4
<1.0	<1.0
<5	<5
<0.2	<0.2
<0.2	0.7
<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

Note: Treated water was not being discharged at Talbingo Reservoir at the time of EPL sampling.

There is no 100th percentile limit for Nitrogen (Total).

* Water Quality Objective values Treated Water reference the predicted values for physical and chemical stressors from the treatment plant as

- Samples not required

^ 90 Percentile concentration limit/100 Percentile limit

Inflows to STP and CWTP do not directly correspond to outflow at RO as much of the water is reused on site

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

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

EPL 43 *	EPL 50 ^
Discharge volume (Megalitres)	
0.19	0.15
0.55	0.61
0.50	0.25
-	0.02
0.44	0.33
0.82	0.34
-	0.21
0.29	0.24
-	0.26
0.66	0.31
-	0.01
0.75	0.33
1.08	0.17
0.64	0.34
-	0.06
1.04	0.29
0.86	-
1.06	0.26
-	0.26
1.01	-
1.03	0.84
0.95	0.45
-	0.40
1.06	0.18
-	-
-	0.48
-	0.436
-	0.29
1.10	-
0.50	0.37
1.23	-

- 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.

* The maximum flow rate capacity for Lobs Hole STP/PWTP during the reporting month was 7.63 L/s

^ The maximum flow rate capacity for Tantangara STP/PWTP during the reporting month was 18.68 L/s

-- Water not discharged on this day