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.

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

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL56	EPL57	EPL58	EPL68	EPL69	EPL70	EPL72	EPL73	EPL80	EPL81	EPL82	EPL83	EPL87	EPL88	EPL89	EPL 90	EPL 91	EPL92	EPL93	EPL94	EPL95	EPL96	EPL97	EPL102	EPL103	EPL104	EPL105	EPL113	EPL114	EPL115	EPL116	EPL117
				20/01/25	20/01/25	20/01/25	25/01/25	25/01/25	25/01/25	26/01/25	26/01/25	13/01/25	13/01/25	13/01/25	13/01/25	13/01/25	13/01/25	13/01/25	20/01/25	20/01/25	6/01/25	20/01/25	20/01/25	20/01/25	6/01/25	20/01/25	12/01/25	25/01/25	25/01/25	25/01/25	9/01/25	9/01/25	9/01/25	9/01/25	9/01/25
Physiochemical																																			
pH	**pH Unit**	-	6.5-8	7.32	7.9	5.83	6.1	6.36	6.45	4.87	6.54	6.77	6.77	6.61	6.17	5.71	6.95	6.53	5.74	6.62	7.2	6.91	6.32	6.31	7.14	6.02	7.53	6.41	6.27	7.09	6.55	7.42	7.33	7.21	6.63
Electrical Conductivity	**µS/cm**	-	30-350	242	248	1200	34	31	93	36	123	876	814	2650	563	585	830	349	72	233	120	242	170	702	860	424	402	50	49	170	125	382	365	181	136
Oxidation Reduction Potential	**mV**	-	No Water Quality Objective Value	256	227	161	195	191	207	328	191	-52	-46	-46	56	231	-150	51	274	168	154	38	48	131	28	121	-43	214	197	182	154	85	-20	120	-49
Temperature	**°C**	-	No Water Quality Objective Value	15.82	17.69	20.06	14.98	15.5	17.67	12.53	16.56	20.04	17.53	19.12	18.49	17.4	18.36	18.39	16.06	19.94	17.13	17.6	17.52	20.63	17.32	19.11	12.04	16.39	16.01	16.86	13.93	16.59	15.52	16.55	16.39
Dissolved Oxygen	**% saturation**	-	No Water Quality Objective Value	21.6	23.5	20.6	80.9	76.5	54.2	60.1	54.8	18.4	19	13.6	16.6	95.7	28.1	22.7	60.8	34.9	46.5	29.5	24.3	20.4	24.4	18	64.3	64.2	45.7	55.9	102.6	18.6	18.1	71.3	11.6
Turbidity	**NTU**	-	No Water Quality Objective Value	21.7	50.7	90.5	0.8	116	1000	62.1	111	62.2	845	84.6	160	1000	0.9	172	197	21.8	301	50.9	83.3	65.5	279	4.1	42.7	4.2	60.9	3.5	752	7.1	278	1000	576
Laboratory analytes																																			
TSS	**mg/L**	5	No Water Quality Objective Value	9	7	109	<5	312	1,460	27	62	26	372	172	206	6,600	6	191	106	36	519	103	72	124	272	21	11	10	89	13	341	21	329	6,770	464
Hardness as CaCO3	**mg/L**	1	No Water Quality Objective Value	154	136	448	7	9	29	13	22	348	422	1,240	84	131	112	64	16	125	40	124	115	350	311	142	121	2	9	40	43	204	179	85	43
Nutrients																																			
Ammonia as N	**µg/L**	10	13	10	<10	50	<10	30	20	20	20	<10	100	100	<10	230	310	20	20	10	<10	30	<10	10	<10	10	30	10	<10	<10	<10	10	<10	<10	<10
Nitrite + Nitrate as N (NOx)	**µg/L**	10	15	170	300	77,400	640	160	630	29	40	6	6	6	20	6,490	2	30	140	130	30	7	5	22,700	32,600	160	<10	742	240	2,840	10	5	3	40	20
Kjeldahl Nitrogen Total	**µg/L**	100	No Water Quality Objective Value	<100	<100	6,600	<100	<100	600	<100	<100	200	400	200	200	3,500	500	200	100	200	<100	100	<100	4,100	700	100	200	<100	100	200	<1,000	<100	<100	<2,000	<100
Nitrogen (Total)	**µg/L**	100	250	200	300	87,400	600	200	1,200	<100	<100	200	400	200	200	10,000	500	200	200	300	<100	100	<100	26,800	33,800	300	200	800	300	3,000	<1,000	<100	<100	<2,000	<100
Reactive Phosphorus	**µg/L**	1	15	15	19	11	<1	1	17	21	13	3	4	2	6	6	5	7	10	20	<1	26	14	12	4	21	15	10	8	3	4	11	8	17	27
Phosphorus (Total)	**µg/L**	10	20	60	70	60	50	140	1,230	50	30	40	180	20	20	3,190	50	40	370	50	70	750	850	1,080	150	800	30	40	90	20	160	20	80	940	460
Inorganics																																			
Cyanide Total	**µg/L**	4	4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Hydrocarbons																																			
Oil and Grease	**mg/L**	1	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Metals																																			
Aluminium (total)	**µg/L**	5	No Water Quality Objective Value	144	356	2,110	336	1,310	18,300	477	540	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aluminium (dissolved)	**µg/L**	5	27	<5	<5	5	<5	6	<5	8	<5	<5	<5	<5	8	<5	<5	<5	<5	10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	10	<5	<5	<5	<5
Arsenic (total)	**µg/L**	0.2	No Water Quality Objective Value	<0.2	2.3	3.1	<0.2	0.5	1.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	**µg/L**	0.2	0.8	<0.2	2.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	2.9	5.8	8.5	2.7	<0.2	12.2	0.3	<0.2	0.2	0.3	4.8	0.5	0.5	<0.2	0.2	0.6	<0.2	<0.2	<0.2	0.4	0.7	0.4	0.6	0.5
Chromium (III+VI) (total)	**µg/L**	0.2	No Water Quality Objective Value	0.4	0.8	5.9	0.9	1.6	8.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (III+VI) (dissolved)	**µg/L**	0.2	0.01	<0.2	<0.2	0.2	<0.2	<0.2	<0.2	<0.2	0.2	<0.2	<0.2	<0.2	<0.2	0.4	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	<0.2	<0.2	<0.2	<0.2	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Copper (total)	**µg/L**	0.5	No Water Quality Objective Value	8.4	13.4	3.8	0.8	2.2	18.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	**µg/L**	0.5	1	1.7	2.2	0.8	<0.5	<0.5	<0.5	10.0	1.0	<0.5	<0.5	<0.5	1.6	<0.5	<0.5	4.1	<0.5	<0.5	<0.5	<0.5	<0.5	1.8	0.6	<0.5	<0.5	3.5	1.6	0.7	3.1	0.6	<0.5	<0.5	<0.5
Iron (total)	**µg/L**	2	No Water Quality Objective Value	171	368	4,300	318	1,060	12,400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	**µg/L**	2	300	<2	<2	7	66	6	<2	<2	<2	4	220	1,340	2	<2	59	<2	6	4	<2	4	4	<2	<2	<2	<2	<2	<2	<2	26	<2	<2	<2	<2
Lead (total)	**µg/L**	0.1	No Water Quality Objective Value	1.4	0.9	25.1	0.1	0.7	4.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	**µg/L**	0.1	1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.4	<0.1	<0.1	<0.1	<0.1
Manganese (total)	**µg/L**	0.5	No Water Quality Objective Value	18.0	97.7	494	117	60.8	158	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	**µg/L**	0.5	1,200	6.8	57.6	381	97.4	3.8	7.0	5.5	6.7	183	189	354	84.9	37.2	164	19.4	6.1	136	64.1	108	393	773	3.1	437	224	1.1	9.2	17.0	104	336	510	98.4	273
Nickel (total)	**µg/L**	0.5	No Water Quality Objective Value	<0.5	1.4	12.3	6.0	1.8	5.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	**µg/L**	0.5	8	<0.5	<0.5	6.0	4.5	<0.5	<0.5	1.3	<0.5	15.0	0.8	0.8	5.5	2.0	2.0	1.8	2.4	1.1	2.2	0.6	1.5	12.3	2.4	2.6	0.8	<0.5	<0.5	3.0	0.6	2.4	<0.5	0.9	1.0
Silver (total)	**µg/L**	0.01	No Water Quality Objective Value	<0.01	<0.01	0.12	<0.01	<0.01	<0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	**µg/L**	0.01	0.02	<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	<0.01	<0.01	<0.01	<0.01
Zinc (total)	**µg/L**	1	No Water Quality Objective Value	5	3	24	41	6	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	**µg/L**	1	2.4	2	<1	12	34	2	<1	6	<1	<1	<1	2	3	<1	<1	<1	9	4	17	<1	6	32	2	35	<1	<1	1	60	5	4	<1	3	<1

* 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 EPL 21266.

\- Sample not required at this location.

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*	EPL10	EPL11	EPL28	EPL29	EPL32	EPL38	EPL39	EPL40	EPL46	EPL51	EPL107	EPL108	EPL109
Field				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
pH	**pH Unit**	-	6.5-8	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
Electrical Conductivity	**µS/cm**	-	20-30	97	79	30	25	26	38	27	22.4	26	25	49	43	85
Oxidation Reduction Potential	**mV**	-	No Water Quality Objective Value	184	177	212	241	-48	200	201	199.1	244	238	170	169	175
Temperature	**°C**	-	No Water Quality Objective Value	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
Dissolved Oxygen	**% saturation**	-	90-110	63.5	63.7	109.1	92.4	91.9	74.6	90	100	90	91	71.8	69.4	81.3
Turbidity	**NTU**	-	1-20	0	1	8.6	8.9	7.1	30.6	9.6	4.13	6.3	7.4	3.1	3.4	6.3
Laboratory analytes																
Total suspended solids	**mg/L**	5	No Water Quality Objective Value	<5	<5	<5	<5	<5	34	<5	<5	<5	5	<5	<5	17
Hardness as $CaCO_3$ (filtered)	**mg/L**	1	No Water Quality Objective Value	43	38	9	9	9	9	13	9	9	<1	17	14	14
Nutrients																
Ammonia as N	**µg/L**	10	10	20	50	<10	<10	40	<10	10	10	<10	<10	<10	10	<10
Nitrite + Nitrate as N (NOx)	**µg/L**	10	10	<10	5	<2	4	<10	8	10	4	2	<10	<2	8	<2
Kjeldahl Nitrogen Total	**µg/L**	100	No Water Quality Objective Value	200	200	300	300	400	400	200	300	400	300	200	200	200
Nitrogen (Total)	**µg/L**	100	350	200	200	300	300	400	400	200	300	400	300	200	200	200
Reactive Phosphorus	**µg/L**	1	5	2	<1	4	1	4	3	3	4	4	4	5	2	2
Phosphorus (Total)	**µg/L**	10	10	30	<10	40	90	60	80	60	50	60	50	<10	10	<10
Inorganics																
Cyanide Total	**µg/L**	4	7	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Hydrocarbons																
Oil and Grease	**mg/L**	1	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Metals																
Aluminium (dissolved)	**µg/L**	5	55	<5	<5	30	30	30	31	27	25	30	33	6	<5	<5
Arsenic (dissolved)	**µg/L**	0.2	13	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
Chromium (III+VI) (dissolved)	**µg/L**	0.2	1	<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
Copper (dissolved)	**µg/L**	0.5	14	<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
Iron (dissolved)	**µg/L**	2	300	36	16	278	273	280	285	161	77	278	310	6	6	5
Lead (dissolved)	**µg/L**	0.1	3.4	<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
Manganese (dissolved)	**µg/L**	0.5	1,900	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
Nickel (dissolved)	**µg/L**	0.5	11	<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
Silver (dissolved)	**µg/L**	0.01	0.05	<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
Zinc (dissolved)	**µg/L**	1	8	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Biological																
Faecal Coliforms	**CFU/100mL**	1	10/100^	590	2,700	100	-	-	-	-	-	-	80	-	-	-
Biochemical Oxygen Demand	**mg/L**	2	1/5^	<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 feacal 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 - Surface Water

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL5	EPL6	EPL8	EPL9	EPL12	EPL14	EPL15	EPL16	EPL24	EPL26	EPL27	EPL30	EPL31	EPL33	EPL34	EPL35	EPL36	EPL37	EPL52	EPL53	EPL54	EPL55	EPL67	EPL71	EPL84	EPL85	EPL86	EPL98	EPL99	EPL100	EPL101	EPL106	EPL110	EPL118	EPL120	EPL122
Field				4/01/25	4/01/25	4/01/25	4/01/25	4/01/25	4/01/25	4/01/25	4/01/25	3/01/25	12/01/25	12/01/25	18/01/25	18/01/25	18/01/25	18/01/25	18/01/25	26/01/25	26/01/25	13/01/25	Dry	Dry	Dry	Dry	Dry	13/01/25	Dry	Dry	Dry	17/01/25	17/01/25	17/1/25	11/1/25	Dry	Dry	Dry	Dry
pH	-	-	6.5-8	8.16	7.72	7.78	7.96	8.01	7.62	7.62	8.28	7.68	7.51	7.81	7.36	7.19	7.32	7.67	7.16	6.96	7.01	8.98	Dry	Dry	Dry	Dry	Dry	8.33	Dry	Dry	Dry	9.14	8.33	8.44	8.41	Dry	Dry	Dry	Dry
Electrical Conductivity	µS/cm	-	30-350	136	118	146	141	138	135	136	140	1220	42	42	39	28	28	30	28	50	53	1250	Dry	Dry	Dry	Dry	Dry	1440	Dry	Dry	Dry	220	538	670	1150	Dry	Dry	Dry	Dry
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	141	163	164	153	153	170	172	97	70	158	192	208	212	206	193	195	162	185	-15	Dry	Dry	Dry	Dry	Dry	151	Dry	Dry	Dry	38	88	88	83	Dry	Dry	Dry	Dry
Temperature	°C	-	No Water Quality Objective Value	19.63	18.53	21.35	21.64	19.66	19.83	20.61	22.21	18.52	12.45	13.32	12.32	12.17	14.26	12.98	12.09	23	28.32	25.56	Dry	Dry	Dry	Dry	Dry	20.19	Dry	Dry	Dry	14.62	15.73	13.42	23.1	Dry	Dry	Dry	Dry
Dissolved Oxygen	% saturation	-	90-110	86.5	84.7	85.7	85.7	97.1	70.9	84.9	79.9	51.3	63.4	57.2	85.8	81	80.6	93.8	94.5	69.3	71.6	94.8	Dry	Dry	Dry	Dry	Dry	69.1	Dry	Dry	Dry	70.1	77.6	78.9	100.8	Dry	Dry	Dry	Dry
Turbidity	NTU	-	2-25	0.54	2	9.7	7.7	0.6	4.9	1.1	1.2	0.4	3.7	10.4	15.4	0	5.7	0	0	7.6	38.5	17.6	Dry	Dry	Dry	Dry	Dry	863	Dry	Dry	Dry	350	59.3	80	15.3	Dry	Dry	Dry	Dry
Laboratory analytes																																							
TSS	mg/L	5	No Water Quality Objective Value	<5	<5	<5	<5	<5	<5	<5	<5	7	<5	<5	<5	<5	7	<5	<5	<5	8	11	Dry	Dry	Dry	Dry	Dry	322	Dry	Dry	Dry	142	28	45	<5	Dry	Dry	Dry	Dry
Hardness as CaCO3	mg/L	1	No Water Quality Objective Value	71	62	77	72	71	71	71	71	392	18	18	16	13	9	13	13	20	20	355	Dry	Dry	Dry	Dry	Dry	21	Dry	Dry	Dry	90	188	243	327	Dry	Dry	Dry	Dry
Nutrients																																							
Ammonia as N	µg/L	10	13	<10	<10	<10	<10	10	<10	<10	10	<10	10	<10	<10	30	20	<10	<10	20	10	20	Dry	Dry	Dry	Dry	Dry	390	Dry	Dry	Dry	560	30	30	20	Dry	Dry	Dry	Dry
Nitrite + Nitrate as N (NOx)	µg/L	10	15	10	<10	70	4	6	4	7	6	34,600	10	6	10	<2	<10	7	4	20	4	26,900	Dry	Dry	Dry	Dry	Dry	10,500	Dry	Dry	Dry	2,080	17,500	30,600	18,100	Dry	Dry	Dry	Dry
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	<100	<100	200	100	100	<100	100	<100	3,100	200	100	100	200	400	300	200	200	400	3,200	Dry	Dry	Dry	Dry	Dry	2,600	Dry	Dry	Dry	1,100	3,100	5,400	<100	Dry	Dry	Dry	Dry
Nitrogen (Total)	µg/L	100	250	<100	<100	300	100	100	<100	100	<100	37,700	200	100	100	200	400	300	200	200	400	30,100	Dry	Dry	Dry	Dry	Dry	13,100	Dry	Dry	Dry	3,200	20,900	36,000	18,200	Dry	Dry	Dry	Dry
Reactive Phosphorus	µg/L	1	15	4	6	6	4	4	3	3	5	2	4	6	6	6	<1	2	1	7	9	2	Dry	Dry	Dry	Dry	Dry	15	Dry	Dry	Dry	11	2	5	6	Dry	Dry	Dry	Dry
Phosphorus (Total)	µg/L	10	20	<10	10	10	30	10	50	30	30	30	40	10	40	40	80	70	80	30	20	40	Dry	Dry	Dry	Dry	Dry	330	Dry	Dry	Dry	70	80	100	20	Dry	Dry	Dry	Dry
Inorganics																																							
Cyanide Total	µg/L	4	4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	Dry	Dry	Dry	Dry	Dry	<4	Dry	Dry	Dry	<4	<4	<4	<4	Dry	Dry	Dry	Dry
Hydrocarbons																																							
Oil and Grease	mg/L	1	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	Dry	Dry	Dry	Dry	Dry	<1.0	Dry	Dry	Dry	<1.0	<1.0	<1.0	<1.0	Dry	Dry	Dry	Dry
Metals																																							
Aluminium (total)	µg/L	5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	82	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-	-	-
Aluminium (dissolved)	µg/L	5	27	<5	<5	<5	<5	<5	<5	<5	<5	<5	8	7	30	13	22	23	22	20	54	13	Dry	Dry	Dry	Dry	Dry	59	Dry	Dry	Dry	52	61	55	<5	Dry	Dry	Dry	Dry
Arsenic (total)	µg/L	0.2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.1	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	µg/L	0.2	0.8	0.5	0.3	0.5	0.5	0.5	0.5	0.5	0.5	<0.2	<0.2	<0.2	<0.2	<0.2	0.3	<0.2	<0.2	0.4	0.6	5.6	Dry	Dry	Dry	Dry	Dry	11.3	Dry	Dry	Dry	1.6	2.3	3.6	2.1	Dry	Dry	Dry	Dry
Chromium (III+VI) (total)	µg/L	0.2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.6	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (III+VI) (dissolved)	µg/L	0.2	0.01	<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	<0.2	<0.2	1.5	Dry	Dry	Dry	Dry	Dry	51.5	Dry	Dry	Dry	12.2	4.5	14.5	2.5	Dry	Dry	Dry	Dry
Copper (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.7	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	µg/L	0.5	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	Dry	Dry	Dry	Dry	Dry	1.3	Dry	Dry	Dry	<0.5	0.8	1.2	<0.5	Dry	Dry	Dry	Dry
Iron (total)	µg/L	2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	51	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	µg/L	2	300	4	11	7	8	4	5	6	4	<2	67	50	63	44	242	180	182	316	380	<2	Dry	Dry	Dry	Dry	Dry	17	Dry	Dry	Dry	2	<2	<2	<2	Dry	Dry	Dry	Dry
Lead (total)	µg/L	0.1	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	µg/L	0.1	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	Dry	Dry	Dry	Dry	Dry	<0.1	Dry	Dry	Dry	<0.1	<0.1	<0.1	<0.1	Dry	Dry	Dry	Dry
Manganese (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.8	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	µg/L	0.5	1,200	1.1	4.8	1.4	4.0	0.8	1.2	1.5	2.2	300	8.2	2.7	4.5	2.3	1.4	4.6	5.7	37.0	1.9	2.4	Dry	Dry	Dry	Dry	Dry	<0.5	Dry	Dry	Dry	3.6	8.9	5.2	0.9	Dry	Dry	Dry	Dry
Nickel (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	µg/L	0.5	8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.4	<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	0.6	Dry	Dry	Dry	<0.5	0.9	0.9	2.2	Dry	Dry	Dry	Dry
Silver (total)	µg/L	0.01	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.01	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	µg/L	0.01	0.02	<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	<0.01	Dry	Dry	Dry	<0.01	<0.01	<0.01	<0.01	Dry	Dry	Dry	Dry
Zinc (total)	µg/L	1	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	µg/L	1	2.4	<1	<1	<1	<1	<1	<1	<1	<1	10	<1	<1	<1	<1	<1	<1	<1	5	<1	1	Dry	Dry	Dry	Dry	Dry	<1	Dry	Dry	Dry	<1	<1	<1	<1	Dry	Dry	Dry	Dry

* 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

Snowy Hydro 2.0 Main Works

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

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL 41	EPL 43	EPL 44	EPL 45	EPL 47	EPL 48	EPL 49	EPL 50
Flow Rate				22/01/2025							22/01/2024
Inflow#	**ML/day**	-	-	-	0.0000	0.3858	0.0478	0.2103	0.0889	0.7156	-
Outflow#	**ML/day**	-	4.32 (EPL 43 / 50)	-	-	-	-	-	-	-	-
Field											
pH	**pH Unit**	-	6.5-8.5	6.92	-	-	-	-	-	-	7.44
Electrical Conductivity	**µS/cm**	-	700 (EPL 41) / 200 (EPL 50)	161	-	-	-	-	-	-	60.7
Oxidation Reduction Potential	**mV**	-	No Water Quality Objective Value	170	-	-	-	-	-	-	176.5
Temperature	**°C**	-	15	25.46	-	-	-	-	-	-	20.4
Dissolved Oxygen	**% saturation**	-	No Water Quality Objective Value	63.1	-	-	-	-	-	-	87.2
Turbidity	**NTU**	-	<25	20	-	-	-	-	-	-	22.49
Laboratory analytes											
Total suspended solids	**mg/L**	5	5/10	<5	-	-	-	-	-	-	<5
Hardness as $CaCO_3$ (filtered)	**mg/L**	1	No Water Quality Objective Value	<1	-	-	-	-	-	-	<1
Nutrients											
Ammonia as N	**µg/L**	10	200/2000^	3,030	-	-	-	-	-	-	200
Nitrite + Nitrate as N (NOx)	**µg/L**	10	10	310	-	-	-	-	-	-	220
Kjeldahl Nitrogen Total	**µg/L**	100	No Water Quality Objective Value	5,200	-	-	-	-	-	-	600
Nitrogen (Total)	**µg/L**	100	350/-^	5,500	-	-	-	-	-	-	800
Reactive Phosphorus	**µg/L**	1	No Water Quality Objective Value	<1	-	-	-	-	-	-	<1
Phosphorus (Total)	**µg/L**	10	100/300^	10	-	-	-	-	-	-	20
Inorganics											
Cyanide Total	**µg/L**	4	No Water Quality Objective Value	<4	-	-	-	-	-	-	<4
Hydrocarbons											
Oil and Grease	**mg/L**	1	2/5^	<1.0	-	-	-	-	-	-	<1.0
Metals											
Aluminium (dissolved)	**µg/L**	5	55	6	-	-	-	-	-	-	<5
Arsenic (dissolved)	**µg/L**	0.2	13	<0.2	-	-	-	-	-	-	<0.2
Chromium (III+VI) (dissolved)	**µg/L**	0.2	1	<0.2	-	-	-	-	-	-	<0.2
Copper (dissolved)	**µg/L**	0.5	14	<0.5	-	-	-	-	-	-	<0.5
Iron (dissolved)	**µg/L**	2	300	<2	-	-	-	-	-	-	<2
Lead (dissolved)	**µg/L**	0.1	3.4	<0.1	-	-	-	-	-	-	<0.1
Manganese (dissolved)	**µg/L**	0.5	1,900	<0.5	-	-	-	-	-	-	1.1
Nickel (dissolved)	**µg/L**	0.5	11	<0.5	-	-	-	-	-	-	<0.5
Silver (dissolved)	**µg/L**	0.01	0.05	<0.01	-	-	-	-	-	-	<0.01
Zinc (dissolved)	**µg/L**	1	8	<1	-	-	-	-	-	-	1
Biological											
Faecal Coliforms	**CFU/100mL**	1	10/100^	<1	-	-	-	-	-	-	<1
Biological Oxygen Demand	**mg/L**	2	5	<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 2.0

Future Generation
Webuild • Clough • Lane

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

Date	EPL 43 *	EPL 50 ^	EPL 44	EPL 45	EPL 47	EPL 48	EPL 49
	Discharge volume (Megalitres)		Discharge volume (Megalitres)				
1/01/2025	-	-	0.40	0.04	0.15	0.05	0.62
2/01/2025	-	-	0.43	0.03	0.15	0.07	0.85
3/01/2025	-	-	0.62	0.04	0.18	0.06	0.62
4/01/2025	-	-	0.47	0.05	0.16	0.07	0.89
5/01/2025	-	-	0.29	0.01	0.18	0.07	0.72
6/01/2025	-	-	0.51	0.04	0.19	0.08	0.52
7/01/2025	-	-	0.27	0.05	0.13	0.06	0.69
8/01/2025	-	-	0.57	0.03	0.32	0.07	0.42
9/01/2025	-	-	0.37	0.05	0.14	0.06	0.85
10/01/2025	-	-	0.72	0.07	0.17	0.07	0.60
11/01/2025	-	-	0.28	0.05	0.20	0.07	0.55
12/01/2025	-	-	0.34	0.05	0.24	0.08	0.54
13/01/2025	-	-	0.54	0.05	0.20	0.09	0.71
14/01/2025	-	-	0.40	0.05	0.34	0.08	0.90
15/01/2025	-	-	0.61	0.08	0.19	0.18	0.86
16/01/2025	-	-	0.49	0.01	0.23	0.18	0.65
17/01/2025	-	-	0.67	0.05	0.19	0.08	0.63
18/01/2025	-	-	0.58	0.04	0.15	0.08	0.72
19/01/2025	-	-	0.65	0.06	0.21	0.07	0.57
20/01/2025	-	-	0.26	0.07	0.23	0.08	0.63
21/01/2025	-	-	0.19	0.06	0.21	0.18	0.75
22/01/2025	-	-	0.17	0.05	0.20	0.01	0.79
23/01/2025	-	-	0.31	0.07	0.28	0.09	0.94
24/01/2025	-	-	0.06	0.04	0.16	0.07	0.72
25/01/2025	-	-	0.27	0.05	0.22	0.08	0.82
26/01/2025	-	-	0.17	0.05	0.22	0.09	0.90
27/01/2025	-	-	0.20	0.04	0.21	0.08	0.70
28/01/2025	-	-	0.19	0.04	0.19	0.18	0.60
29/01/2025	-	-	0.19	0.05	0.23	0.08	0.65
30/01/2025	-	-	0.10	0.04	0.25	0.08	0.61
31/01/2025	-	-	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

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 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 schedulled 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.

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

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL1	EPL2	EPL4	EPL25	EPL56	EPL57	EPL58	EPL68	EPL69	EPL70	EPL72	EPL73
Physiochemical				7/02/25	16/02/25	11/02/25	11/02/25	10/02/25	10/02/25	10/02/25	8/02/25	8/02/25	8/02/25	15/02/25	15/02/25
pH	pH Unit	-	6.5-8	6.77	7.85	8.59	6.58	7.28	7.98	6.17	5.85	6.34	6.79	5.76	5.72
Electrical Conductivity	µS/cm	-	30-350	504	294	1320	506	237	245	1140	30	31	98	71	77
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	-53	-109	-95	-57	135	119	136	198	189	183	223	230
Temperature	°C	-	No Water Quality Objective Value	20.74	14.62	18.79	19.37	18.84	20.89	20.71	15.92	17.06	16.31	11.54	11.56
Dissolved Oxygen	% saturation	-	No Water Quality Objective Value	17.9	102.3	16.6	29	14.8	15.5	22.1	66.8	60.8	52.9	54.6	91.2
Turbidity	NTU	-	No Water Quality Objective Value	21.9	294	1000	423	19.6	42.1	38.3	190	40.8	1000	65.8	36.3
Laboratory analytes															
TSS	mg/L	5	No Water Quality Objective Value	23	197	1,990	101	6	<5	126	46	104	2,930	24	147
Hardness as CaCO3	mg/L	1	No Water Quality Objective Value	252	104	138	202	116	121	319	2	2	29	13	20
Nutrients															
Ammonia as N	µg/L	10	13	60	200	2,400	120	20	20	120	10	110	30	<10	10
Nitrite + Nitrate as N (NOx)	µg/L	10	13	<10	110	7,050	10	40	610	55,100	1,020	140	610	30	30
Kjeldahl Nitrogen Total	µg/L	100	13	200	1,000	8,000	700	<100	200	9,500	<500	200	<100	<100	<100
Nitrogen (Total)	µg/L	100	13	200	1,100	15,000	700	<100	800	64,600	1,000	300	600	<100	<100
Reactive Phosphorus	µg/L	1	13	<10	70	50	<10	<10	10	<10	30	10	20	30	10
Phosphorus (Total)	µg/L	10	13	110	180	2,000	270	30	100	60	200	60	40	50	100
Inorganics															
Cyanide Total	µg/L	4	4	-	-	-	-	<4	<4	<4	<4	<4	<4	<4	<4
Hydrocarbons															
Oil and Grease	mg/L	1	5	-	-	-	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Metals															
Aluminium (total)	µg/L	5	No Water Quality Objective Value	-	-	-	-	17	80	461	1,550	892	102,000	491	1,750
Aluminium (dissolved)	µg/L	5	27	<5	<5	<5	<5	<5	<5	<5	<5	6	<5	6	<5
Arsenic (total)	µg/L	0.2	No Water Quality Objective Value	-	-	-	-	<0.2	2.5	0.6	0.5	0.3	6.2	-	-
Arsenic (dissolved)	µg/L	0.2	0.8	0.5	1.3	11.2	0.8	<0.2	2.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chromium (III+VI) (total)	µg/L	0.2	No Water Quality Objective Value	-	-	-	-	<0.2	<0.2	1.3	1.2	1.0	49.3	-	-
Chromium (III+VI) (dissolved)	µg/L	0.2	0.01	<0.2	0.3	0.4	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2
Copper (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	4.3	6.8	1.4	2.0	2.4	159	-	-
Copper (dissolved)	µg/L	0.5	1	<0.5	4.2	1.0	<0.5	0.9	2.1	<0.5	<0.5	<0.5	<0.5	0.6	<0.5
Iron (total)	µg/L	2	No Water Quality Objective Value	-	-	-	-	13	46	652	1,080	679	83,900	-	-
Iron (dissolved)	µg/L	2	300	1,490	8	3	634	<2	<2	10	<2	5	<2	<2	<2
Lead (total)	µg/L	0.1	No Water Quality Objective Value	-	-	-	-	0.2	0.2	5.2	0.8	0.5	44.7	-	-
Lead (dissolved)	µg/L	0.1	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Manganese (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	12.6	80.3	200	32.8	33.1	1,760	-	-
Manganese (dissolved)	µg/L	0.5	1,200	213	99.3	158	884	8.8	58.0	181	4.5	1.7	12.8	4.6	5.2
Nickel (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	<0.5	<0.5	5.6	1.6	1.2	26.1	-	-
Nickel (dissolved)	µg/L	0.5	8	1.6	5.1	3.8	4.7	<0.5	<0.5	4.4	0.6	<0.5	<0.5	0.8	<0.5
Silver (total)	µg/L	0.01	No Water Quality Objective Value	-	-	-	-	<0.01	<0.01	0.07	0.02	<0.01	0.06	-	-
Silver (dissolved)	µg/L	0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc (total)	µg/L	1	No Water Quality Objective Value	-	-	-	-	8	4	15	8	3	135	-	-
Zinc (dissolved)	µg/L	1	2.4	4	<1	<1	22	4	1	12	4	<1	<1	4	<1

Analyte	EPL80	EPL81	EPL82	EPL83	EPL87	EPL88	EPL89	EPL 90	EPL 91	EPL92	EPL93	EPL94
Physiochemical	3/02/25	3/02/25	3/02/25	3/02/25	3/02/25	3/02/25	3/02/25	10/02/25	10/02/25	10/02/25	10/02/25	10/02/25
pH	7.11	7.15	6.96	6.22	6.28	7.3	6.96	6.04	7.13	6.87	7.15	6.93
Electrical Conductivity	800	852	2710	506	629	809	383	55	243	115	236	167
Oxidation Reduction Potential	-48	-92	-51	46	106	-132	133	154	13	25	-56	3
Temperature	23.55	23.56	20.28	21.26	20.62	22.67	24.4	17.88	19.25	19.75	18.44	18.42
Dissolved Oxygen	14.7	28.3	20.4	33.9	17.5	15.9	24.1	46.9	24.3	85.5	19.3	19.7
Turbidity	92.4	1000	53.4	81.7	1000	1.2	226	238	21.6	739	987	83.1
Laboratory analytes												
TSS	15	469	173	139	2,390	<5	301	292	24	967	717	60
Hardness as CaCO3	314	363	1,220	68	112	92	64	29	115	57	115	96
Nutrients												
Ammonia as N	30	90	100	30	20	190	<10	10	70	20	60	10
Nitrite + Nitrate as N (NOx)	<10	<10	<10	100	2,710	<10	20	90	10	40	<10	<10
Kjeldahl Nitrogen Total	<100	2,300	200	200	1,600	500	<100	100	200	<100	100	100
Nitrogen (Total)	<100	2,300	200	300	4,300	500	<100	200	200	<100	100	100
Reactive Phosphorus	<10	<10	<10	<10	10	<10	<10	10	<10	20	10	<10
Phosphorus (Total)	140	1,120	90	110	490	50	<10	100	70	140	130	70
Inorganics												
Cyanide Total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Hydrocarbons												
Oil and Grease	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Metals												
Aluminium (total)	-	-	-	-	-	-	-	-	-	-	-	-
Aluminium (dissolved)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Arsenic (total)	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	4.0	9.2	13.1	2.7	0.2	12.0	0.3	<0.2	0.4	0.4	5.9	0.6
Chromium (III+VI) (total)	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (III+VI) (dissolved)	<0.2	<0.2	<0.2	<0.2	0.3	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Copper (total)	-	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	<0.5	<0.5	<0.5	2.3	<0.5	<0.5	3.6	<0.5	<0.5	<0.5	<0.5	<0.5
Iron (total)	-	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	<2	<2	2,720	<2	<2	1,220	<2	<2	<2	<2	<2	<2
Lead (total)	-	-	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.4	<0.1	<0.1
Manganese (total)	-	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	186	240	375	62.6	112	177	13.0	10.4	401	109	119	281
Nickel (total)	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	16.7	2.3	1.3	9.8	2.3	2.4	2.2	2.2	0.9	2.6	0.6	0.8
Silver (total)	-	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc (total)	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	1	1	2	2	<1	<1	<1	11	4	18	<1	5

Analyte	EPL95	EPL96	EPL97	EPL102	EPL103	EPL104	EPL105	EPL113	EPL114	EPL115	EPL116	EPL117
Physiochemical	10/02/25	10/02/25	10/02/25	15/02/25	8/02/25	8/02/25	8/02/25	18/02/25	18/02/25	18/02/25	18/02/25	18/02/25
pH	6.3	7.15	6.78	6.68	6.44	6.33	6.25	5.93	7.34	7.36	6.76	6.14
Electrical Conductivity	840	643	437	407	39	59	152	129	403	356	215	147
Oxidation Reduction Potential	131	232	37	67	180	186	188	219	229	123	206	-8
Temperature	20.52	17.42	20.32	12.53	15.65	18.31	16.76	16.88	20.92	16.36	18.94	19.81
Dissolved Oxygen	21.7	22	18.7	85.6	49.8	40.1	53.7	29.6	13.6	103	82.6	41.2
Turbidity	61.8	236	11.3	40.9	35	17.3	3.9	639	30.3	355	1000	1000
Laboratory analytes												
TSS	137	350	176	10	15	15	<5	440	<5	228	2,720	492
Hardness as CaCO3	292	85	139	168	2	9	50	41	204	177	68	43
Nutrients												
Ammonia as N	<10	<10	50	30	<10	50	20	<10	<10	<10	20	10
Nitrite + Nitrate as N (NOx)	34,600	5,110	280	10	500	240	3,180	10	10	<10	20	<10
Kjeldahl Nitrogen Total	7,200	<500	100	100	<100	200	600	<100	<100	<100	<100	<100
Nitrogen (Total)	41,800	5,100	400	100	500	400	3,800	<100	<100	<100	<100	<100
Reactive Phosphorus	30	<10	10	10	30	10	<10	<10	<10	<10	10	10
Phosphorus (Total)	130	90	150	80	60	40	40	50	40	40	250	300
Inorganics												
Cyanide Total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Hydrocarbons												
Oil and Grease	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Metals												
Aluminium (total)	-	-	-	-	-	-	-	-	-	-	-	-
Aluminium (dissolved)	<5	<5	<5	<5	<5	<5	<5	20	<5	<5	<5	<5
Arsenic (total)	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	0.7	<0.2	0.5	0.4	<0.2	<0.2	<0.2	0.4	0.7	0.4	0.5	0.8
Chromium (III+VI) (total)	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (III+VI) (dissolved)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.4	<0.2	<0.2	<0.2	0.2	<0.2
Copper (total)	-	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	1.0	<0.5	<0.5	<0.5	3.5	0.5	1.2	3.4	<0.5	<0.5	<0.5	<0.5
Iron (total)	-	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	<2	<2	<2	<2	<2	<2	<2	36	<2	<2	<2	2,930
Lead (total)	-	-	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	0.2	<0.1	<0.1	<0.1	<0.1
Manganese (total)	-	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	615	3.2	328	130	0.7	7.1	11.7	108	303	359	156	359
Nickel (total)	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	10.3	1.9	2.0	1	<0.5	<0.5	5.7	0.7	0.9	<0.5	1.7	1.6
Silver (total)	-	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc (total)	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	35	2	30	<1	<1	2	27	5	4	<1	3	<1

* 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 EPL 21266.

\- Sample not required at this location.

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*	EPL10	EPL11	EPL28	EPL29	EPL32	EPL38	EPL39	EPL40	EPL46	EPL51	EPL107	EPL108	EPL109
Field				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
pH	pH Unit	-	6.5-8	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
Electrical Conductivity	µS/cm	-	20-30	78	56	28	26	26	28	30	30.9	27	27	34	32	31
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	205	209	225	227	230	101	233	168	220	86	221	204	151
Temperature	°C	-	No Water Quality Objective Value	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
Dissolved Oxygen	% saturation	-	90-110	75.4	69.2	56.9	58.3	65.2	78.4	91.5	88.4	62.9	57.5	69	82.8	80
Turbidity	NTU	-	1-20	0.5	0	13	9.3	9	10.3	18.7	5.16	8	9.1	0	0	23.5
Laboratory analytes																
Total suspended solids	mg/L	5	No Water Quality Objective Value	<5	<5	8	<5	<5	6	8	<5	<5	<5	<5	<5	<5
Hardness as $CaCO_3$ (filtered)	mg/L	1	No Water Quality Objective Value	43	31	9	9	9	5	7	9	9	9	17	17	14
Nutrients																
Ammonia as N	µg/L	10	10	40	130	<10	20	<10	<10	<10	20	<10	40	60	20	40
Nitrite + Nitrate as N (NOx)	µg/L	10	10	30	<10	20	<10	<10	<10	20	<10	20	<10	<10	<10	20
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	300	400	300	400	400	300	200	300	300	400	200	200	200
Nitrogen (Total)	µg/L	100	350	300	400	300	400	400	300	200	300	300	400	200	200	200
Reactive Phosphorus	µg/L	1	5	<10	<10	10	10	10	<10	<10	<10	50	<10	<10	<10	<10
Phosphorus (Total)	µg/L	10	10	30	40	40	40	40	30	20	50	40	70	<10	10	<10
Inorganics																
Cyanide Total	µg/L	4	7	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Hydrocarbons																
Oil and Grease	mg/L	1	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	10	<10
Metals																
Aluminium (dissolved)	µg/L	5	55	<5	<5	26	32	30	24	37	25	30	31	<5	<5	<5
Arsenic (dissolved)	µg/L	0.2	13	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
Chromium (III+VI) (dissolved)	µg/L	0.2	1	<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
Copper (dissolved)	µg/L	0.5	14	<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
Iron (dissolved)	µg/L	2	300	26	12	388	246	247	186	141	104	252	251	6	4	4
Lead (dissolved)	µg/L	0.1	3.4	<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
Manganese (dissolved)	µg/L	0.5	1,900	<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
Nickel (dissolved)	µg/L	0.5	11	<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
Silver (dissolved)	µg/L	0.01	0.05	<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
Zinc (dissolved)	µg/L	1	8	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Biological																
Faecal Coliforms	CFU/100mL	1	10/100^	1,900	68	6000	-	-	-	-	-	-	3300	-	-	-
Biochemical Oxygen Demand	mg/L	2	1/5^	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 feacal 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 - Surface Water

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL5	EPL6	EPL8	EPL9	EPL12	EPL14	EPL15	EPL16	EPL24	EPL26	EPL27	EPL30	EPL31	EPL33	EPL34	EPL35	EPL36	EPL37	EPL52	EPL53	EPL54	EPL55	EPL67	EPL71	EPL84	EPL85	EPL86	EPL98	EPL99	EPL100	EPL101	EPL106	EPL110	EPL118	EPL120	EPL122
Field				2/02/25	11/02/25	2/02/25	2/02/25	2/02/25	2/02/25	2/02/25	2/02/25	19/02/25	7/02/25	7/02/25	1/02/25	1/02/25	1/02/25	1/02/25	1/02/25	4/02/25	4/02/25	3/02/25	Dry	Dry	17/2/25	Dry	Dry	15/02/25	15/02/25	15/02/25	Dry	15/02/25	15/02/25	15/2/25	8/2/25	18/2/25	Dry	Dry	19/02/25
pH	-	-	6.5-8	7.45	8.46	8.38	8.22	7.07	7.94	8.27	8.53	7.17	8.1	8.31	7.89	7.66	7.36	7.69	7.57	7.73	7.89	9.18	Dry	Dry	7.01	Dry	Dry	8.65	9.24	8.45	Dry	8.98	8.44	8.86	8.67	7.54	Dry	Dry	7.79
Electrical Conductivity	µS/cm	-	30-350	163	116	169	155	163	163	163	165	607	77.4	75.2	84.3	86.4	86.7	98.1	94	68.6	71.9	78.9	Dry	Dry	1220	Dry	Dry	441	461	899	Dry	265	587	362	1270	67	Dry	Dry	778
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	267	38	206	212	288	232	213	199	178	161	148	212	219	241	222	225	115	161	178	Dry	Dry	142	Dry	Dry	164	143	-28	Dry	47	89	65	95	140	Dry	Dry	173
Temperature	°C	-	No Water Quality Objective Value	19.83	22.46	21.2	21.23	19.61	20.25	20.92	22.62	14.66	22.71	20.38	16.93	17.42	20.73	16.62	16.42	22.57	24.93	24.91	Dry	Dry	19.6	Dry	Dry	20.64	19.7	21.13	Dry	16.14	16.96	16.06	25.78	13.87	Dry	Dry	14.06
Dissolved Oxygen	% saturation	-	90-110	79.9	67.7	67.8	79.3	74.3	75.3	66.5	77.4	75.5	77.4	75.2	84.3	86.4	86.7	98.1	94	68.6	71.9	78.9	Dry	Dry	68.5	Dry	Dry	74.4	52.5	74.8	Dry	66.6	67.5	66.9	74.3	95.8	Dry	Dry	64.1
Turbidity	NTU	-	2-25	3.9	68.4	0.3	4.2	3.1	2.4	1.3	0.4	33.6	12	5.3	0	0	10.6	0	0	14	23.8	16	Dry	Dry	12.3	Dry	Dry	1000	1000	507	Dry	41.3	81.5	206	45.6	44	Dry	Dry	206
Laboratory analytes																																							
TSS	mg/L	5	No Water Quality Objective Value	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	6	<5	<5	<5	5	19	Dry	Dry	<5	Dry	Dry	744	804	176	Dry	25	27	58	<5	<5	Dry	Dry	198
Hardness as CaCO3	mg/L	1	No Water Quality Objective Value	63	45	85	72	68	68	71	80	156	18	12	13	9	9	16	16	21	24	376	Dry	Dry	360	Dry	Dry	41	40	148	Dry	85	226	125	352	19	Dry	Dry	184
Nutrients																																							
Ammonia as N	µg/L	10	13	30	<10	70	<10	20	40	10	20	20	30	10	<10	40	<10	30	<10	<10	20	50	Dry	Dry	20	Dry	Dry	<10	<10	<10	Dry	680	20	100	60	<10	Dry	Dry	20
Nitrite + Nitrate as N (NOx)	µg/L	10	15	10	20	80	<10	10	30	10	<10	23,600	10	30	<10	<10	<10	<10	<10	10	<10	24,900	Dry	Dry	61,800	Dry	Dry	1,000	2,030	5,940	Dry	4,890	19,600	15,800	40,000	40	Dry	Dry	28,900
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	300	200	300	200	200	200	200	200	2,900	100	<100	200	200	400	300	300	200	400	10,600	Dry	Dry	2,400	Dry	Dry	1,600	1,400	1,100	Dry	1,400	900	500	2,800	<100	Dry	Dry	3,200
Nitrogen (Total)	µg/L	100	250	300	200	400	200	200	200	200	200	26,500	100	<100	200	200	400	300	300	200	400	35,500	Dry	Dry	64,200	Dry	Dry	2,600	3,400	7,000	Dry	6,300	20,500	16,300	42,800	<100	Dry	Dry	32,100
Reactive Phosphorus	µg/L	1	15	<10	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	Dry	Dry	<10	Dry	Dry	10	<10	20	Dry	<10	<10	10	10	<10	Dry	Dry	<10
Phosphorus (Total)	µg/L	10	20	20	20	50	20	40	70	30	20	10	50	30	10	<10	30	20	40	60	50	30	Dry	Dry	60	Dry	Dry	540	560	260	Dry	30	50	80	20	10	Dry	Dry	160
Inorganics																																							
Cyanide Total	µg/L	4	4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	Dry	Dry	<4	Dry	Dry	<4	<4	<4	Dry	<4	<4	<4	<4	<4	Dry	Dry	<4
Hydrocarbons																																							
Oil and Grease	mg/L	1	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	Dry	Dry	<1.0	Dry	Dry	<1.0	<1.0	<1.0	Dry	<1.0	<1.0	<1.0	<1.0	<1.0	Dry	Dry	<1.0
Metals																																							
Aluminium (total)	µg/L	5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	Dry	Dry	71	Dry	-	-	-	-	-	-	-	-	-	-	-	-
Aluminium (dissolved)	µg/L	5	27	<5	17	<5	<5	<5	<5	<5	<5	6	15	8	12	14	27	22	22	19	30	<5	Dry	Dry	<5	Dry	Dry	13	9	<5	Dry	19	20	45	7	12	Dry	Dry	<5
Arsenic (total)	µg/L	0.2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.9	Dry	Dry	0.8	Dry	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	µg/L	0.2	0.8	0.6	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.6	<0.2	<0.2	<0.2	<0.2	0.3	0.2	0.3	0.5	0.5	6.8	Dry	Dry	0.8	Dry	Dry	7.7	17.2	6.6	Dry	1.2	2.6	1.9	2.4	0.8	Dry	Dry	0.3
Chromium (III+VI) (total)	µg/L	0.2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.5	Dry	Dry	0.6	Dry	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (III+VI) (dissolved)	µg/L	0.2	0.01	0.3	<0.2	<0.2	<0.2	0.2	<0.2	<0.2	<0.2	0.4	0.3	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	1.4	Dry	Dry	0.5	Dry	Dry	7.0	13.0	15.2	Dry	18.3	8.4	13.8	2.1	<0.2	Dry	Dry	<0.2
Copper (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.8	Dry	Dry	<0.5	Dry	-	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	µg/L	0.5	1	<0.5	0.6	<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	0.6	Dry	Dry	<0.5	Dry	Dry	1.7	1.1	2.0	Dry	<0.5	<0.5	0.6	<0.5	<0.5	Dry	Dry	<0.5
Iron (total)	µg/L	2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	Dry	Dry	68	Dry	-	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	µg/L	2	300	4	43	7	8	4	5	6	7	14	74	27	45	33	242	165	173	353	371	<2	Dry	Dry	<2	Dry	Dry	42	7	6	Dry	<2	<2	<2	<2	12	Dry	Dry	4
Lead (total)	µg/L	0.1	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	Dry	Dry	0.1	Dry	-	-	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	µg/L	0.1	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	Dry	Dry	<0.1	Dry	Dry	<0.1	<0.1	<0.1	Dry	<0.1	<0.1	<0.1	<0.1	<0.1	Dry	Dry	<0.1
Manganese (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2	Dry	Dry	9.6	Dry	-	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	µg/L	0.5	1,200	1.2	3.8	1.7	3.0	1.2	1.4	1.9	2.2	108	12.1	2.4	3.5	2.1	2.3	8.5	6.2	68.0	1.5	0.7	Dry	Dry	7.7	Dry	Dry	0.6	<0.5	14.4	Dry	<0.5	14.0	7.2	<0.5	<0.5	Dry	Dry	12.4
Nickel (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	Dry	Dry	1.8	Dry	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	µg/L	0.5	8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	Dry	Dry	1.1	Dry	Dry	0.6	<0.5	0.6	Dry	<0.5	0.8	<0.5	1.4	<0.5	Dry	Dry	1.3
Silver (total)	µg/L	0.01	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.01	Dry	Dry	<0.01	Dry	-	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	µg/L	0.01	0.02	<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	<0.01	Dry	Dry	<0.01	<0.01	<0.01	Dry	<0.01	<0.01	<0.01	<0.01	<0.01	Dry	Dry	<0.01
Zinc (total)	µg/L	1	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	Dry	Dry	8	Dry	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	µg/L	1	2.4	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	Dry	Dry	4	Dry	Dry	<1	<1	<1	Dry	<1	<1	<1	<1	28	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 99% of aquatic species ANZECC / ARMCANZ (2018), they are not pollutant limits imposed by EPL 21266.

\- Samples not required

Snowy Hydro 2.0 Main Works

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

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL 41	EPL 43	EPL 44	EPL 45	EPL 47	EPL 48	EPL 49	EPL 50
Flow Rate				2/2/2025							26/2/2025
Inflow[#]	ML/day	-	-	-	0.0000	0.1994	0.0523	0.2074	0.0887	0.6811	-
Outflow[#]	ML/day	-	4.32 (EPL 43 / 50)	-	-	-	-	-	-	-	-
Field											
pH	pH Unit	-	6.5-8.5	8.32	-	-	-	-	-	-	5.14
Electrical Conductivity	µS/cm	-	700 (EPL 41) / 200 (EPL 50)	2210	-	-	-	-	-	-	10.8
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	203	-	-	-	-	-	-	224.5
Temperature	°C	-	15	26.69	-	-	-	-	-	-	19.6
Dissolved Oxygen	% saturation	-	No Water Quality Objective Value	66.3	-	-	-	-	-	-	85.7
Turbidity	NTU	-	<25	9.9	-	-	-	-	-	-	0.8
Laboratory analytes											
Total suspended solids	mg/L	5	5/10	<5	-	-	-	-	-	-	<5
Hardness as $CaCO_3$ (filtered)	mg/L	1	No Water Quality Objective Value	106	-	-	-	-	-	-	<1
Nutrients											
Ammonia as N	µg/L	10	200/2000^	2,110	-	-	-	-	-	-	30
Nitrite + Nitrate as N (NOx)	µg/L	10	10	18,300	-	-	-	-	-	-	20
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	3,300	-	-	-	-	-	-	200
Nitrogen (Total)	µg/L	100	350/-^	21,600	-	-	-	-	-	-	200
Reactive Phosphorus	µg/L	1	No Water Quality Objective Value	70	-	-	-	-	-	-	<10
Phosphorus (Total)	µg/L	10	100/300^	80	-	-	-	-	-	-	40
Inorganics											
Cyanide Total	µg/L	4	No Water Quality Objective Value	11	-	-	-	-	-	-	<4
Hydrocarbons											
Oil and Grease	mg/L	1	2/5^	<1.0	-	-	-	-	-	-	<1.0
Metals											
Aluminium (dissolved)	µg/L	5	55	16	-	-	-	-	-	-	<5
Arsenic (dissolved)	µg/L	0.2	13	3.0	-	-	-	-	-	-	<0.2
Chromium (III+VI) (dissolved)	µg/L	0.2	1	13.3	-	-	-	-	-	-	<0.2
Copper (dissolved)	µg/L	0.5	14	<0.5	-	-	-	-	-	-	<0.5
Iron (dissolved)	µg/L	2	300	<2	-	-	-	-	-	-	<2
Lead (dissolved)	µg/L	0.1	3.4	<0.1	-	-	-	-	-	-	<0.1
Manganese (dissolved)	µg/L	0.5	1,900	2.7	-	-	-	-	-	-	<0.5
Nickel (dissolved)	µg/L	0.5	11	<0.5	-	-	-	-	-	-	<0.5
Silver (dissolved)	µg/L	0.01	0.05	<0.01	-	-	-	-	-	-	<0.01
Zinc (dissolved)	µg/L	1	8	2	-	-	-	-	-	-	<1
Biological											
Faecal Coliforms	CFU/100mL	1	10/100^	<1	-	-	-	-	-	-	<1
Biological Oxygen Demand	mg/L	2	5	<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

Date	EPL 43 *	EPL 50 ^	EPL 44	EPL 45	EPL 47	EPL 48	EPL 49
	Discharge volume (Megalitres)		Discharge volume (Megalitres)				
2/1/2025	-	-	0.18	0.04	0.33	0.18	0.50
2/2/2025	-	-	0.14	0.05	0.28	0.08	0.77
2/3/2025	-	-	0.17	0.04	0.13	0.08	0.84
2/4/2025	-	-	0.19	0.05	0.24	0.07	0.76
2/5/2025	-	-	0.10	0.04	0.21	0.07	0.65
2/6/2025	-	-	0.19	0.02	0.10	0.08	0.77
2/7/2025	-	-	0.22	0.09	0.32	0.08	0.71
2/8/2025	-	-	0.19	0.05	0.25	0.19	0.79
2/9/2025	-	-	0.21	0.03	0.20	0.07	0.87
2/10/2025	-	-	0.24	0.09	0.24	0.09	0.65
2/11/2025	-	-	0.19	0.05	0.24	0.09	0.76
2/12/2025	-	-	0.19	0.05	0.22	0.09	0.66
2/13/2025	-	-	0.24	0.05	0.26	0.08	0.86
2/14/2025	-	-	0.14	0.06	0.17	0.09	0.86
2/15/2025	-	-	0.20	0.05	0.21	0.19	0.68
2/16/2025	-	-	0.20	0.06	0.23	0.07	0.48
2/17/2025	-	-	0.30	0.07	0.21	0.01	0.95
2/18/2025	-	-	0.30	0.06	0.23	0.08	0.87
2/19/2025	-	-	0.33	0.06	0.21	0.10	0.77
2/20/2025	-	-	0.38	0.06	0.26	0.09	0.80
2/21/2025	-	-	0.17	0.05	0.22	0.09	0.59
2/22/2025	-	-	0.11	0.05	0.23	0.04	0.40
2/23/2025	-	-	0.32	0.07	0.21	0.09	0.50
2/24/2025	-	-	0.27	0.06	0.18	0.10	0.34
2/25/2025	-	-	0.30	0.08	0.19	0.03	0.83
2/26/2025	-	-	0.18	0.07	0.17	0.13	0.95
2/27/2025	-	-	0.17	0.04	0.23	0.07	0.99
2/28/2025	-	-	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 turbidty, 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.

Snowy Hydro 2.0 Main Works

Monthly EPL Sampling: 01-31 March 2025 - Groundwater

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL56	EPL57	EPL58	EPL68	EPL69	EPL70	EPL72	EPL73	EPL80	EPL81	EPL82	EPL83	EPL87	EPL88	EPL89	EPL 90	EPL 91	EPL92	EPL93	EPL94	EPL95	EPL96	EPL97	EPL102	EPL103	EPL104	EPL105	EPL113	EPL114	EPL115	EPL116	EPL117
Physiochemical				4/03/25	4/03/25	4/03/25	15/03/25	15/03/25	15/03/25	18/03/25	-	19/03/25	19/03/25	19/03/25	19/03/25	19/03/25	19/03/25	19/03/25	19/03/25	19/03/25	4/03/25	4/03/25	4/03/25	4/03/25	4/03/25	4/03/25	4/03/25	-	31/03/25	31/03/25	31/03/25	26/03/25	26/03/25	26/03/25	26/03/25	26/03/25
pH	pH Unit	-	6.5-9	7.64	7.17	6.07	5.99	6.3	6.49	5.89	-	6.45	6.68	7.08	6.27	6.4	6.79	6.86	5.84	6.42	5.92	6.41	6.39	6.13	7.06	6.39	-	6.38	6.01	5.78	7.39	7.55	7.5	7.47	7.41
Electrical Conductivity	µS/cm	-	30-350	206	197	912	22	22	121	53	-	707	809	2850	757	797	900	300	53	193	91	207	142	592	1420	377	-	46	60	162	127	327	298	187	121
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	197	247	199	228	231	217	204	-	76	-28	8	59	238	-62	230	252	16	200	17	80	202	163	109	-	222	238	243	201	-35	-21	228	-17
Temperature	°C	-	No Water Quality Objective Value	16.12	16.01	20.63	14.56	15.55	18.1	12.39	-	13.97	15.04	13.76	16.29	16.46	15.36	15.23	18.9	18.39	16.84	16.93	16.67	21.79	18.5	19.48	-	14.7	15.98	16.85	14.73	16.66	15.88	15.23	15.66
Dissolved Oxygen	% saturation	-	No Water Quality Objective Value	15.8	19.6	17.5	55.2	45.3	45.4	80	-	22.3	106.3	18.7	49	124.7	75.9	39.1	47	17.4	35.4	10	15.7	18.2	50.7	53	-	41.7	43.1	46.5	126.5	88.8	97.5	107.7	108.4
Turbidity	NTU	-	No Water Quality Objective Value	54.2	62.6	127	2.9	24.1	142	69	-	72.3	209	29.1	168	1000	14.1	6.86	96	7.4	564	160	50.4	79.1	1000	7.4	-	2.8	14.4	15.6	566	327	172	1000	1000
Laboratory analytes																																			
TSS	mg/L	5	No Water Quality Objective Value	16	9	204	<5	23	30	<5	-	21	349	218	62	1,970	6	20	171	21	184	3,020	86	190	2,100	41	-	<5	<5	15	153	6	2,460	10,200	6,410
Hardness as CaCO3	mg/L	1	No Water Quality Objective Value	106	105	391	<1	9	30	11	-	308	431	1,100	120	181	137	66	16	102	42	103	74	157	559	124	-	2	9	54	48	201	172	85	39
Nutrients																																			
Ammonia as N	µg/L	10	13	10	40	20	10	10	<10	<10	-	10	110	100	10	30	230	10	10	60	20	60	30	10	30	<10	-	20	80	30	10	50	30	100	20
Nitrite + Nitrate as N (NOx)	µg/L	10	15	50	960	44,400	840	160	930	20	-	<10	<10	<10	10	9,630	<10	<10	280	<10	40	<10	<10	29,500	54,100	140	-	690	280	7,510	60	<10	<10	60	<10
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	<100	100	5,950	<100	<100	<100	<100	-	200	300	400	200	3,400	400	100	<100	100	<100	<100	200	4,400	4,700	<100	-	<100	200	1,300	<1,000	<100	<1,000	<10,000	<5,000
Nitrogen (Total)	µg/L	100	250	<100	1,100	50,300	800	200	900	<100	-	200	300	400	300	13,000	400	100	300	100	<100	<100	200	33,900	58,800	100	-	700	500	8,800	<1,000	<100	<1,000	<10,000	<5,000
Reactive Phosphorus	µg/L	1	15	<10	10	<10	<10	<10	20	20	-	<10	<10	<10	<10	<10	20	<10	<10	10	<10	20	<10	<10	<10	<10	-	<10	<10	<10	<10	<10	<10	20	<10
Phosphorus (Total)	µg/L	10	20	<10	60	190	60	50	100	40	-	670	250	50	90	1,310	130	50	80	40	70	400	20	110	1,060	110	-	40	50	60	<100	30	<100	6,540	6,410
Inorganics																																			
Cyanide Total	µg/L	4	4	<4	<4	<4	<4	<4	<4	<4	-	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	-	<4	<4	<4	<4	<4	<4	<4	<4
Hydrocarbons																																			
Oil and Grease	mg/L	1	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Metals				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aluminium (total)	µg/L	5	No Water Quality Objective Value	23	1,560	5,320	341	1,440	3,360	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aluminium (dissolved)	µg/L	5	27	<5	<5	<5	<5	6	<5	7	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	<5	<5	<5	<5	<5	<5	<5	<5
Arsenic (total)	µg/L	0.2	No Water Quality Objective Value	<0.2	3.6	10.0	<0.2	0.5	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	µg/L	0.2	0.8	<0.2	2.5	<0.2	<0.2	<0.2	<0.2	<0.2	-	2.0	25.4	25.2	2.6	0.2	35.1	0.3	<0.2	1.4	0.4	2.8	1.1	0.5	0.2	0.2	-	<0.2	<0.2	<0.2	0.3	<0.2	0.3	1.0	0.9
Chromium (III+VI) (total)	µg/L	0.2	No Water Quality Objective Value	<0.2	3.8	18.1	0.4	1.5	1.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (III+VI) (dissolved)	µg/L	0.2	0.05	<0.2	<0.2	0.2	<0.2	<0.2	<0.2	<0.2	-	-	<0.2	<0.2	<0.2	0.6	0.3	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.6	<0.2	-	<0.2	0.2	0.4	<0.2	<0.2	<0.2	<0.2	<0.2
Copper (total)	µg/L	0.5	No Water Quality Objective Value	5.2	45.1	9.5	<0.5	4.1	29.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	µg/L	0.5	1	2.2	2.0	<0.5	<0.5	<0.5	4.0	1.0	-	<0.5	<0.5	<0.5	2.4	<0.5	<0.5	1.8	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	0.6	<0.5	-	16.7	<0.5	<0.5	2.0	<0.5	<0.5	<0.5	<0.5
Iron (total)	µg/L	2	No Water Quality Objective Value	18	1,630	10,700	173	979	3,580	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	µg/L	2	300	<2	<2	<2	<2	9	<2	<2	-	<2	1,930	2,070	4	<2	822	2	<2	386	<2	<2	<2	<2	<2	<2	-	<2	<2	<2	61	<2	<2	<2	337
Lead (total)	µg/L	0.1	3	0.1	5.2	92.0	0.1	0.8	1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	µg/L	0.1	1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Manganese (total)	µg/L	0.5	No Water Quality Objective Value	14.6	212	329	3.8	24.6	53.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	µg/L	0.5	1,200	10.6	61.2	37.3	1.4	2.1	2.7	4.6	-	174	211	362	48.4	54.4	151	3.1	5.9	567	45.0	155	352	550	0.8	415	-	0.8	3.3	10.0	92.3	356	467	134	391
Nickel (total)	µg/L	0.5	No Water Quality Objective Value	<0.5	5.4	19.8	0.6	1.2	1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	µg/L	0.5	8	<0.5	<0.5	3.4	<0.5	<0.5	<0.5	0.9	-	14.1	2.3	0.9	6.3	1.7	2.6	1.3	2.2	0.8	1.4	1.2	1.1	8.1	1.2	2.7	-	<0.5	<0.5	4.0	<0.5	43.1	<0.5	<0.5	1.9
Silver (total)	µg/L	0.01	No Water Quality Objective Value	<0.01	<0.01	0.06	<0.01	0.04	<0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	µg/L	0.01	0.02	<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	<0.01	<0.01
Zinc (total)	µg/L	1	No Water Quality Objective Value	6	14	45	4	6	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	µg/L	1	2.4	1	<1	4	2	2	<1	4	-	<3	2	1	2	<1	<1	<1	8	<1	6	<1	4	19	<3	38	-	<1	<3	51	3	<3	<1	3	<1

* 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 EPL 21266.

- Sample not required at this location.

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*	EPL10	EPL11	EPL28	EPL29	EPL32	EPL38	EPL39	EPL40	EPL46	EPL51	EPL107	EPL108	EPL109
Field				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
pH	pH Unit	-	6.5-8	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
Electrical Conductivity	µS/cm	-	20-30	102	63	27	26	26	36	29.6	31.7	26	26	40	38	36
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	191	192	130	140	14	174	664.1	625.5	139	140	193	190	180
Temperature	°C	-	No Water Quality Objective Value	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
Dissolved Oxygen	% saturation	-	90-110	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
Turbidity	NTU	-	1-20	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
Laboratory analytes																
Total suspended solids	mg/L	5	No Water Quality Objective Value	<5	<5	<5	<5	<5	<5	<5	<5	<5	5	<5	<5	<5
Hardness as $CaCO_3$ (filtered)	mg/L	1	No Water Quality Objective Value	46	28	9	9	9	9	13	16	9	9	14	14	14
Nutrients																
Ammonia as N	µg/L	10	10	<10	<10	70	<10	<10	20	30	140	90	<10	<10	40	20
Nitrite + Nitrate as N (NOx)	µg/L	10	10	<10	<10	10	<10	<10	<10	290	20	10	<10	<10	10	<10
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	100	100	300	400	400	300	100	200	300	400	100	100	100
Nitrogen (Total)	µg/L	100	350	100	100	300	400	400	300	400	200	300	400	100	100	100
Reactive Phosphorus	µg/L	1	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Phosphorus (Total)	µg/L	10	10	20	10	20	30	30	20	<10	<10	40	30	20	20	10
Inorganics																
Cyanide Total	µg/L	4	7	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Hydrocarbons																
Oil and Grease	mg/L	1	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Metals																
Aluminium (dissolved)	µg/L	5	55	<5	<5	12	9	11	40	26	19	10	10	<5	<5	<5
Arsenic (dissolved)	µg/L	0.2	13	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
Chromium (III+VI) (dissolved)	µg/L	0.2	1	<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
Copper (dissolved)	µg/L	0.5	14	<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
Iron (dissolved)	µg/L	2	300	20	6	141	90	92	218	98	89	96	91	4	3	3
Lead (dissolved)	µg/L	0.1	3.4	<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
Manganese (dissolved)	µg/L	0.5	1,900	<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
Nickel (dissolved)	µg/L	0.5	11	<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
Silver (dissolved)	µg/L	0.01	0.05	<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
Zinc (dissolved)	µg/L	1	8	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Biological																
Faecal Coliforms	CFU/100mL	1	10/100^	75	230	7	-	-	-	-	-	-	5	-	-	-
Biochemical Oxygen Demand	mg/L	2	1/5^	4	3	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 feacal 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 March 2025 - Surface Water

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL5	EPL6	EPL8	EPL9	EPL12	EPL14	EPL15	EPL16	EPL24	EPL26	EPL27	EPL30	EPL31	EPL33	EPL34	EPL35	EPL36	EPL37	EPL52	EPL53	EPL54	EPL55	EPL67	EPL71	EPL84	EPL85	EPL86	EPL98	EPL99	EPL100	EPL101	EPL106	EPL110	EPL118	EPL120	EPL122
Field				3/03/25	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	1/03/25	1/03/25	1/03/25	1/03/25	1/03/25	8/03/25	8/03/25	4/03/25	Dry	Dry	Dry	Dry	Dry	13/03/25	13/03/25	13/03/25	Dry	18/03/25	Dry	Dry	5/3/25	Dry	Dry	Dry	7/03/25
pH	-	-	6.5-8	8.02	7.9	7.86	8.14	8.06	7.99	8.05	8.25	6.7	7.86	8.23	6.89	7.12	7.23	8.19	7.87	7.29	7.35	9.21	Dry	Dry	Dry	Dry	Dry	9.29	8.85	8.67	Dry	10.45	Dry	Dry	7.66	Dry	Dry	Dry	7.86
Electrical Conductivity	µS/cm	-	30-350	219	123	221	177	172	166	170	175	1270	37	36	40	32	31	48	40	52	54	863	Dry	Dry	Dry	Dry	Dry	966	561	1130	Dry	511	Dry	Dry	1379	Dry	Dry	Dry	539
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	90	118	139	146	101	121	125	137	134	190	164	298	285	239	136	155	126	145	93	Dry	Dry	Dry	Dry	Dry	115	129	147	Dry	59	Dry	Dry	196	Dry	Dry	Dry	123
Temperature	°C	-	No Water Quality Objective Value	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	28.62	23.51	27.8	Dry	12.29	Dry	Dry	21.14	Dry	Dry	Dry	17.55
Dissolved Oxygen	% saturation	-	90-110	88.4	63.3	68.7	84	66.2	107.4	71.5	65.2	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	128.5	56	80.4	Dry	69.8	Dry	Dry	101.9	Dry	Dry	Dry	78.8
Turbidity	NTU	-	2-25	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	782	1000	56.5	Dry	170	Dry	Dry	20.8	Dry	Dry	Dry	100
Laboratory analytes																																							
TSS	mg/L	5	No Water Quality Objective Value	7	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	36	<5	<5	<5	<5	<5	24	Dry	Dry	Dry	Dry	Dry	223	418	26	Dry	72	Dry	Dry	6	Dry	Dry	Dry	87
Hardness as CaCO3	mg/L	1	No Water Quality Objective Value	212	60	90	82	87	85	85	85	330	18	18	13	13	9	16	16	17	17	260	Dry	Dry	Dry	Dry	Dry	44	31	217	Dry	198	Dry	Dry	420	Dry	Dry	Dry	86
Nutrients																																							
Ammonia as N	µg/L	10	13	20	10	20	<10	<10	10	<10	<10	10	20	<10	40	<10	20	80	30	20	20	390	Dry	Dry	Dry	Dry	Dry	20	50	20	Dry	130	Dry	Dry	<10	Dry	Dry	Dry	70
Nitrite + Nitrate as N (NOx)	µg/L	10	15	<10	<10	380	20	<10	10	10	20	61,400	<10	<10	10	<10	10	<10	<10	20	10	38,100	Dry	Dry	Dry	Dry	Dry	2,140	5,520	11,900	Dry	6,360	Dry	Dry	43,500	Dry	Dry	Dry	9,180
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	<100	<100	<100	<100	<100	<100	100	<100	5,100	<100	<100	200	<100	300	400	300	100	300	7,000	Dry	Dry	Dry	Dry	Dry	800	1,400	1,700	Dry	2,200	Dry	Dry	6,600	Dry	Dry	Dry	400
Nitrogen (Total)	µg/L	100	250	<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	2,900	6,900	13,600	Dry	8,600	Dry	Dry	50,100	Dry	Dry	Dry	9,600
Reactive Phosphorus	µg/L	1	15	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	Dry	Dry	Dry	Dry	Dry	<10	20	<10	Dry	<10	Dry	Dry	<10	Dry	Dry	Dry	<10
Phosphorus (Total)	µg/L	10	20	10	30	50	40	<10	30	40	30	20	10	40	150	20	20	40	<10	40	30	30	Dry	Dry	Dry	Dry	Dry	150	160	90	Dry	130	Dry	Dry	20	Dry	Dry	Dry	200
Inorganics																																							
Cyanide Total	µg/L	4	4	<4	<4	<4	<4	14	<4	<4	<4	<4	5	<4	<4	<4	<4	<4	<4	<4	<4	<4	Dry	Dry	Dry	Dry	Dry	<4	<4	<4	Dry	<4	Dry	Dry	<4	Dry	Dry	Dry	<4
Hydrocarbons																																							
Oil and Grease	mg/L	1	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	Dry	Dry	Dry	Dry	Dry	<1.0	<1.0	<1.0	Dry	<1.0	Dry	Dry	<1.0	Dry	Dry	Dry	<1.0
Metals																																							
Aluminium (total)	µg/L	5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	164	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-	-	-
Aluminium (dissolved)	µg/L	5	27	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	11	12	24	16	15	16	23	<5	Dry	Dry	Dry	Dry	Dry	19	19	5	Dry	65	Dry	Dry	<5	Dry	Dry	Dry	<5
Arsenic (total)	µg/L	0.2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.6	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	µg/L	0.2	0.8	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	20.5	21.9	6.2	Dry	1.4	Dry	Dry	2.3	Dry	Dry	Dry	0.3
Chromium (III+VI) (total)	µg/L	0.2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.5	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (III+VI) (dissolved)	µg/L	0.2	0.01	<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	8.6	15.6	9.3	Dry	76.6	Dry	Dry	2.1	Dry	Dry	Dry	<0.2
Copper (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.8	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	µg/L	0.5	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	Dry	Dry	Dry	Dry	Dry	4.0	1.9	0.8	Dry	0.7	Dry	Dry	<0.5	Dry	Dry	Dry	<0.5
Iron (total)	µg/L	2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	µg/L	2	300	6	22	11	12	6	8	9	13	2	22	15	46	35	145	213	221	324	269	<2	Dry	Dry	Dry	Dry	Dry	27	36	<2	Dry	5	Dry	Dry	<2	Dry	Dry	Dry	4
Lead (total)	µg/L	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	µg/L	0.1	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	Dry	Dry	Dry	Dry	Dry	<0.1	<0.1	<0.1	Dry	<0.1	Dry	Dry	<0.1	Dry	Dry	Dry	<0.1
Manganese (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.9	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	µg/L	0.5	1,200	0.6	2.4	1.5	5.0	0.8	0.8	1.5	2.9	275	5.2	2.8	3.5	2.0	0.9	11.8	5.6	43.2	0.8	<0.5	Dry	Dry	Dry	Dry	Dry	0.8	<0.5	<0.5	Dry	<0.5	Dry	Dry	<0.5	Dry	Dry	Dry	<0.5
Nickel (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.9	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	µg/L	0.5	8	<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	1.2	0.6	0.6	Dry	<0.5	Dry	Dry	1.9	Dry	Dry	Dry	<0.5
Silver (total)	µg/L	0.01	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.01	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	µg/L	0.01	0.02	<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	<0.01	<0.01	<0.01	Dry	<0.01	Dry	Dry	<0.01	Dry	Dry	Dry	<0.01
Zinc (total)	µg/L	1	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	Dry	Dry	Dry	Dry	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	µg/L	1	2.4	<1	<1	<1	<1	<1	<1	<1	<1	7	<1	<1	8	<1	<1	<1	<1	<1	<1	<1	Dry	Dry	Dry	Dry	Dry	<1	2	<1	Dry	<1	Dry	Dry	<1	Dry	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 99% of aquatic species ANZECC / ARMCANZ (2018), they are not pollutant limits imposed by EPL 21266.

\- Samples not 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*	EPL 41	EPL 43	EPL 44	EPL 45	EPL 47	EPL 48	EPL 49	EPL 50
Flow Rate				16/03/2025							12/03/2025
Inflow#	ML/day	-	-	-	0.0000	0.2650	0.0512	0.2177	0.0970	0.7472	-
Outflow#	ML/day	-	4.32 (EPL 43 / 50)	-	-	-	-	-	-	-	-
Field											
pH	pH Unit	-	6.5-8.5	7.84	-	-	-	-	-	-	7.92
Electrical Conductivity	µS/cm	-	700 (EPL 41) / 200 (EPL 50)	6	-	-	-	-	-	-	18.6
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	507	-	-	-	-	-	-	701
Temperature	°C	-	15	25.15	-	-	-	-	-	-	16.1
Dissolved Oxygen	% saturation	-	No Water Quality Objective Value	73.6	-	-	-	-	-	-	55.2
Turbidity	NTU	-	<25	0.9	-	-	-	-	-	-	0.53
Laboratory analytes											
Total suspended solids	mg/L	5	5/10	<5	-	-	-	-	-	-	<5
Hardness as $CaCO_3$ (filtered)	mg/L	1	No Water Quality Objective Value	<1	-	-	-	-	-	-	<1
Nutrients											
Ammonia as N	µg/L	10	200/2000^	40	-	-	-	-	-	-	<10
Nitrite + Nitrate as N (NOx)	µg/L	10	10	100	-	-	-	-	-	-	<10
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	<100	-	-	-	-	-	-	<100
Nitrogen (Total)	µg/L	100	350/-^	100	-	-	-	-	-	-	<100
Reactive Phosphorus	µg/L	1	No Water Quality Objective Value	<10	-	-	-	-	-	-	<10
Phosphorus (Total)	µg/L	10	100/300^	<10	-	-	-	-	-	-	10
Inorganics											
Cyanide Total	µg/L	4	No Water Quality Objective Value	<4	-	-	-	-	-	-	<4
Hydrocarbons											
Oil and Grease	mg/L	1	2/5^	<1.0	-	-	-	-	-	-	<1
Metals											
Aluminium (dissolved)	µg/L	5	55	<5	-	-	-	-	-	-	<5
Arsenic (dissolved)	µg/L	0.2	13	<0.2	-	-	-	-	-	-	<0.2
Chromium (III+VI) (dissolved)	µg/L	0.2	1	<0.2	-	-	-	-	-	-	<0.2
Copper (dissolved)	µg/L	0.5	14	<0.5	-	-	-	-	-	-	<0.5
Iron (dissolved)	µg/L	2	300	<2	-	-	-	-	-	-	<2
Lead (dissolved)	µg/L	0.1	3.4	<0.1	-	-	-	-	-	-	<0.1
Manganese (dissolved)	µg/L	0.5	1,900	<0.5	-	-	-	-	-	-	<0.5
Nickel (dissolved)	µg/L	0.5	11	<0.5	-	-	-	-	-	-	<0.5
Silver (dissolved)	µg/L	0.01	0.05	<0.01	-	-	-	-	-	-	<0.01
Zinc (dissolved)	µg/L	1	8	<1	-	-	-	-	-	-	<1
Biological											
Faecal Coliforms	CFU/100mL	1	10/100^	11.00	-	-	-	-	-	-	<1
Biological Oxygen Demand	mg/L	2	5	<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	EPL 43 *	EPL 50 ^	EPL 44	EPL 45	EPL 47	EPL 48	EPL 49
	Discharge volume (Megalitres)		Discharge volume (Megalitres)				
1/03/2025	-	-	0.14	0.06	0.16	0.12	0.62
2/03/2025	0.44	-	0.15	0.06	0.20	0.05	0.52
3/03/2025	-	-	0.15	0.07	0.21	0.08	0.71
4/03/2025	-	-	0.15	0.06	0.20	0.24	0.86
5/03/2025	-	-	0.11	0.04	0.22	0.08	0.79
6/03/2025	-	-	0.12	0.04	0.21	0.09	0.75
7/03/2025	-	-	0.15	0.05	0.21	0.08	0.76
8/03/2025	-	-	0.22	0.03	0.23	0.09	0.79
9/03/2025	-	-	0.16	0.04	0.21	0.09	0.69
10/03/2025	-	-	0.21	0.07	0.18	0.08	0.86
11/03/2025	-	-	0.13	0.03	0.20	0.09	0.59
12/03/2025	-	-	0.13	0.05	0.18	0.08	0.53
13/03/2025	0.20	-	0.13	0.05	0.20	0.07	0.83
14/03/2025	-	-	0.73	0.05	0.20	0.09	0.92
15/03/2025	-	-	0.42	0.04	0.20	0.07	0.98
16/03/2025	-	-	0.49	0.06	0.17	0.01	0.68
17/03/2025	-	-	0.41	0.07	0.29	0.07	0.52
18/03/2025	-	-	0.42	0.07	0.23	0.16	0.87
19/03/2025	-	-	0.40	0.06	0.25	0.04	0.72
20/03/2025	-	-	0.42	0.06	0.25	0.06	0.64
21/03/2025	-	-	0.28	0.03	0.19	0.06	0.58
22/03/2025	0.12	-	0.24	0.04	0.20	0.06	0.78
23/03/2025	0.57	-	0.39	0.06	0.20	0.01	0.73
24/03/2025	-	-	0.24	0.04	0.22	0.04	0.76
25/03/2025	0.38	-	0.25	0.04	0.22	0.08	0.81
26/03/2025	1.14	-	0.16	0.05	0.23	0.25	0.52
27/03/2025	0.27	0.73	0.28	0.05	0.22	0.08	0.83
28/03/2025	-	0.63	0.13	0.04	0.24	0.08	0.83
29/03/2025	-	-	0.24	0.05	0.21	0.17	0.50
30/03/2025	14.85	0.28	0.30	0.05	0.21	0.16	0.67
31/03/2025	0.39	-	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 2.0 Main Works

Monthly EPL Sampling: 01-30 April 2025 - Groundwater

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL56	EPL57	EPL58	EPL68	EPL69	EPL70	EPL72	EPL73 (decommissioned)	EPL80	EPL81	EPL82	EPL83	EPL87	EPL88	EPL89	EPL 90	EPL 91	EPL92	EPL93	EPL94	EPL95	EPL96	EPL97	EPL102 (Decommissioned)	EPL103	EPL104	EPL105	EPL113	EPL114	EPL115	EPL116	EPL117
Physiochemical				14/04/2025	14/04/2025	14/04/2025	6/04/2025	6/04/2025	6/04/2025	13/04/2025	-	11/04/2025	11/04/2025	11/04/2025	11/04/2025	11/04/2025	11/04/2025	11/04/2025	14/04/2025	14/04/2025	14/04/2025	14/04/2025	14/04/2025	14/04/2025	9/04/2025	14/04/2025	-	6/04/2025	6/04/2025	6/04/2025	4/04/2025	4/04/2025	4/04/2025	4/04/2025	4/04/2025
pH	**pH Unit**	-	6.5-8	7.4	7.44	6.11	5.72	5.9	5.9	7.21	-	6.8	7.1	6.65	6.78	6.72	7.14	6.81	7.23	6.98	7.87	7.84	7.78	7.89	6.72	6.84	-	6.01	5.95	5.83	6.31	7.41	7.38	6.88	6.34
Electrical Conductivity	**µS/cm**	-	30-350	214	194	962	2	9	9	46	-	685	859	2190	815	651	788	302	62	218	134	207	151	821	291	363	-	13	14	130	168	397	363	178	149
Oxidation Reduction Potential	**mV**	-	No Water Quality Objective Value	186	264	134	288	289	289	105	-	-41	-167	-50	-32	152	-215	-145	130	-108	142	114	12	94	216	113	-	296	296	310	154	27	36	128	-
Temperature	**°C**	-	No Water Quality Objective Value	18.47	16.29	15.62	12.34	12.4	12.4	14.68	-	18.13	19.05	17.18	17.36	17.43	16.1	16.01	13.59	14.51	13.56	13.81	13.88	15	11.79	15.49	-	11.05	12.6	12.64	15.08	15.49	15.51	15.55	15.82
Dissolved Oxygen	**% saturation**	-	No Water Quality Objective Value	24.6	15.7	27.4	72.6	42.1	42.1	50.9	-	20.8	27.1	17.4	42.8	40.3	37.7	60.6	73.8	37.1	93.8	91	91	89.9	99.4	22.7	-	39.2	39.7	40	17.7	21.6	13.2	54.5	10.8
Turbidity	**NTU**	-	No Water Quality Objective Value	4.9	91.9	95.2	15.1	23.8	23.8	206	-	14.3	669	43.9	74.7	1000	18.7	14.8	100	11.2	930	895	107	151	869	1.3	-	8.6	11.7	168	437	20.4	220	1000	1000
Laboratory analytes																																			
TSS	**mg/L**	5	No Water Quality Objective Value	<5	79	68	<5	17	18	88	-	14	2,030	71	54	11,700	46	223	71	10	593	2,190	193	134	510	<5	-	<5	<5	43	42	9	222	6,400	32
Hardness as CaCO3	**mg/L**	1	No Water Quality Objective Value	95	112	372	<1	9	26	13	-	372	460	1,240	143	200	154	64	20	126	36	104	72	346	126	140	-	2	9	50	48	190	177	71	43
Nutrients																																			
Ammonia as N	**µg/L**	10	13	20	<10	30	<10	<10	<10	10	-	60	60	100	30	420	40	70	10	40	10	30	20	140	420	20	-	<10	<10	<10	10	70	30	30	20
Nitrite + Nitrate as N (NOx)	**µg/L**	10	15	90	1,230	63,800	760	140	890	40	-	<10	30	<10	10,100	8,110	8,260	<10	340	<10	30	20	<10	49,700	9,150	70	-	850	230	5,700	20	<10	<10	40	<10
Kjeldahl Nitrogen Total	**µg/L**	100	No Water Quality Objective Value	100	100	2,700	<100	<100	<500	100	-	200	600	200	300	2,000	600	100	100	<100	200	500	100	2,600	<100	<100	-	100	<100	500	400	<100	100	1,600	300
Nitrogen (Total)	**µg/L**	100	250	200	1,300	66,500	800	100	900	100	-	200	600	200	10,400	10,100	8,900	100	400	<100	200	500	100	52,300	9,200	<100	-	1,000	200	6,200	400	<100	100	1,600	300
Reactive Phosphorus	**µg/L**	1	15	<1	<1	<1	<1	<1	20	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	20	<1	<1	<1	<1	20	20	-	1	<1	<1	<1	<1	<1	10	<1.0
Phosphorus (Total)	**µg/L**	10	20	50	50	190	<10	<10	130	150	-	220	300	<10	20	540	80	10	60	70	280	1,020	100	180	460	70	-	20	<10	<10	80	20	60	1,770	1,650
Inorganics																																			
Cyanide Total	**µg/L**	4	4	<4	<4	<4	<4	<4	<4	<4	-	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	-	<4	<4	<4	<4	<4	<4	<4	<4
Hydrocarbons																																			
Oil and Grease	**mg/L**	1	5	<1	<1	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	<1	<1
Metals																																			
Aluminium (total)	**µg/L**	5	No Water Quality Objective Value	94	743	516	315	976	1,110	764	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aluminium (dissolved)	**µg/L**	5	27	<5	<5	<5	<5	<5	<5	5	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	<5	<5	<5	7	<5	<5	<5	<5
Arsenic (total)	**µg/L**	0.2	No Water Quality Objective Value	<0.2	2.4	0.6	<0.2	0.2	<0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	**µg/L**	0.2	0.8	<0.2	2.4	<0.2	<0.2	<0.2	<0.2	<0.2	-	5.6	6.9	8.7	2.3	0.5	18.9	0.4	<0.2	0.5	<0.2	0.8	1.3	0.5	0.3	0.2	-	<0.2	<0.2	<0.2	0.4	0.4	0.4	0.5	0.9
Chromium (III+VI) (total)	**µg/L**	0.2	No Water Quality Objective Value	0.4	1.4	1.6	0.3	1.0	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (III+VI) (dissolved)	**µg/L**	0.2	0.01	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.3	<0.2	-	<0.2	<0.2	0.3	<0.2	<0.2	<0.2	<0.2	<0.2
Copper (total)	**µg/L**	0.5	No Water Quality Objective Value	6.2	9.9	3.8	0.6	3.5	22.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	**µg/L**	0.5	1	1.0	1.2	0.8	<0.5	<0.5	6.9	4.2	-	<0.5	0.6	<0.5	3.3	0.7	<0.5	6.1	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	<0.5	<0.5	-	6.2	<0.5	<0.5	2.0	<0.5	<0.5	<0.5	<0.5
Iron (total)	**µg/L**	2	No Water Quality Objective Value	125	708	860	152	611	646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	**µg/L**	2	300	<2	<2	<2	<2	4	<2	<2	-	<2	<2	379	<2	<2	48	<2	<2	2	<2	<2	<2	<2	4	<2	-	<2	<2	<2	13	2	<2	<2	1,450
Lead (total)	**µg/L**	0.1	No Water Quality Objective Value	1.0	1.6	8.6	0.1	0.4	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	**µg/L**	0.1	1	<0.1	<0.1	0.3	<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	0.3	<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
Manganese (total)	**µg/L**	0.5	No Water Quality Objective Value	31.9	102	212	4.3	17.2	12.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	**µg/L**	0.5	1,200	12.6	58.9	175	2.1	1.3	1.6	5.0	-	198	267	355	51.6	336	176	15.6	5.3	466	61.6	128	363	901	105	295	-	<0.5	3.4	17.0	80.7	392	369	49.0	309
Nickel (total)	**µg/L**	0.5	No Water Quality Objective Value	0.5	2.4	6.6	0.8	0.9	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	**µg/L**	0.5	8	<0.5	<0.5	4.2	<0.5	<0.5	<0.5	1.0	-	17.4	2.5	1.4	8.4	3.4	3.0	2.0	1.5	<0.5	1.1	0.8	0.9	10.0	8.8	1.1	-	<0.5	<0.5	3.5	<0.5	54.2	<0.5	0.6	1.4
Silver (total)	**µg/L**	0.01	No Water Quality Objective Value	<0.01	<0.01	0.16	<0.01	<0.01	<0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	**µg/L**	0.01	0.02	<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	<0.01	<0.01
Zinc (total)	**µg/L**	1	No Water Quality Objective Value	7	6	16	4	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	**µg/L**	1	2.4	1	<1	7	2	<1	<1	4	-	1	3	2	2	111	1	<1	7	<1	6	<1	4	23	10	17	-	<1	<1	21	2	3	<1	3	<1

* 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 EPL 21266.

\- Sample not required at this location.

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*	EPL10	EPL11	EPL28	EPL29	EPL32	EPL38	EPL39	EPL40	EPL46	EPL51	EPL107	EPL108	EPL109
Field				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
pH	**pH Unit**	-	6.5-8	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
Electrical Conductivity	**µS/cm**	-	20-30	47	41	13.9	27	27	27	2	32.5	28	27.5	38	33	35
Oxidation Reduction Potential	**mV**	-	No Water Quality Objective Value	193	190	110.1	134	110	113	259	143.5	165	144.7	183	175	145
Temperature	**°C**	-	No Water Quality Objective Value	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
Dissolved Oxygen	**% saturation**	-	90-110	87.2	91.2	89.7	60.1	101.6	89.1	65	101.3	93.6	91	85	89.2	85.7
Turbidity	**NTU**	-	1-20	5.1	9.5	6.85	0	3.3	57.9	6	3.28	8.2	10.96	0.5	11	15.9
Laboratory analytes																
Total suspended solids	**mg/L**	5	No Water Quality Objective Value	<5	<5	17	<5	<5	18	<5	<5	<5	<5	<5	<5	<5
Hardness as $CaCO_3$ (filtered)	**mg/L**	1	No Water Quality Objective Value	22	19	9	9	9	9	7	9	9	9	10	10	10
Nutrients																
Ammonia as N	**µg/L**	10	10	30	30	<10	10	10	<10	<10	<10	20	<10	<10	<10	<10
Nitrite + Nitrate as N (NOx)	**µg/L**	10	10	<10	<10	10	<10	<10	<10	80	<10	<10	<10	<10	<10	<10
Kjeldahl Nitrogen Total	**µg/L**	100	No Water Quality Objective Value	100	100	1,200	500	300	800	100	<100	300	400	<100	<100	<100
Nitrogen (Total)	**µg/L**	100	350	100	100	1,200	500	300	800	200	<100	300	400	<100	<100	<100
Reactive Phosphorus	**µg/L**	1	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Phosphorus (Total)	**µg/L**	10	10	30	20	70	30	30	40	150	20	20	50	20	20	<10
Inorganics																
Cyanide Total	**µg/L**	4	7	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Hydrocarbons																
Oil and Grease	**mg/L**	1	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Metals																
Aluminium (dissolved)	**µg/L**	5	55	<5	<5	15	9	9	9	12	13	8	9	<5	<5	<5
Arsenic (dissolved)	**µg/L**	0.2	13	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
Chromium (III+VI) (dissolved)	**µg/L**	0.2	1	<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
Copper (dissolved)	**µg/L**	0.5	14	<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
Iron (dissolved)	**µg/L**	2	300	6	4	72	55	56	52	77	58	61	58	4	4	4
Lead (dissolved)	**µg/L**	0.1	3.4	<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
Manganese (dissolved)	**µg/L**	0.5	1,900	<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
Nickel (dissolved)	**µg/L**	0.5	11	<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
Silver (dissolved)	**µg/L**	0.01	0.05	<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
Zinc (dissolved)	**µg/L**	1	8	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Biological																
Faecal Coliforms	**CFU/100mL**	1	10/100^	28	21	100	-	-	-	-	-	-	1	-	-	-
Biochemical Oxygen Demand	**mg/L**	2	1/5^	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 - Surface Water

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL5	EPL6	EPL8	EPL9	EPL12	EPL14	EPL15	EPL16	EPL24	EPL26	EPL27	EPL30	EPL31	EPL33	EPL34	EPL35	EPL36	EPL37	EPL52	EPL53	EPL54	EPL55	EPL67	EPL71	EPL84	EPL85	EPL86	EPL98	EPL99	EPL100	EPL101	EPL106	EPL110	EPL118	EPL120	EPL122
Field				11/04/2025	11/04/2025	11/04/2025	11/04/2025	11/04/2025	11/04/2025	11/04/2025	11/04/2025	9/04/2025	13/04/2025	13/04/2025	6/04/2025	6/04/2025	6/04/2025	6/04/2025	6/04/2025	22/04/2025	5/04/2025	9/04/2025	Dry	Dry	Dry	Dry	Dry	29/04/2025	29/04/2025	11/04/2025	Dry	13/04/2025	19/04/2025	13/04/2025	12/04/2025	Dry	Dry	Dry	22/04/2025
pH	-	-	6.5-8	8.14	8.09	8.18	8.18	8.18	8.2	8.17	8.34	6.83	8.23	8.09	7.66	7.53	7.51	7.87	7.69	6.76	7.45	8.71	Dry	Dry	Dry	Dry	Dry	9.02	9.04	8.85	Dry	9.5	8.74	7.17	8.85	Dry	Dry	Dry	8.26
Electrical Conductivity	µS/cm	-	30-350	150	127	153	149	147	144	146	147	922	37	32	11	1	7	13	7	40	22	960	Dry	Dry	Dry	Dry	Dry	937	679	871	Dry	479	1050	1330	1660	Dry	Dry	Dry	656
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	173	173	175	176	167	173	176	170	112	124	133	236	244	229	182	180	201	201	165	Dry	Dry	Dry	Dry	Dry	94	113	-15	Dry	4	74	115	44	Dry	Dry	Dry	135
Temperature	°C	-	No Water Quality Objective Value	12.21	12.56	16.69	15.83	12.36	13.31	13.84	15.63	14.29	10.46	9.27	8.13	7.87	14.11	9.3	7.54	11.89	12.21	13.56	Dry	Dry	Dry	Dry	Dry	18.89	18.05	19.01	Dry	17.66	16.25	18.34	17.44	Dry	Dry	Dry	15.06
Dissolved Oxygen	% saturation	-	90-110	92.3	96.7	89.3	97.9	93.3	95.1	97.2	93.8	50.6	74.3	77.7	75	58.8	63.2	81	68.9	51.8	64.9	69.5	Dry	Dry	Dry	Dry	Dry	89.8	72.6	90.2	Dry	94.9	62.3	5.33	89.2	Dry	Dry	Dry	59.3
Turbidity	NTU	-	2-25	3.83	0.59	0.86	0.69	0.4	1.11	0.3	0.3	18.6	16.4	14.2	6.3	3.6	30.8	9.4	3.6	15.2	23.5	73.2	Dry	Dry	Dry	Dry	Dry	1000	1000	190	Dry	26.6	167	41.3	17	Dry	Dry	Dry	1000
Laboratory analytes																																							
TSS	mg/L	5	No Water Quality Objective Value	6	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	6	<5	<5	16	29	34	Dry	Dry	Dry	Dry	Dry	349	571	77	Dry	<5	60	<5	<5	Dry	Dry	Dry	577
Hardness as CaCO3	mg/L	1	No Water Quality Objective Value	81	72	81	85	83	87	87	-	282	18	14	13	9	9	16	16	13	17	285	Dry	Dry	Dry	Dry	Dry	39	46	144	Dry	170	276	303	460	Dry	Dry	Dry	61
Nutrients																																							
Ammonia as N	µg/L	10	13	40	<10	50	20	20	20	10	6	<10	20	10	<10	<10	20	30	<10	10	20	30	Dry	Dry	Dry	Dry	Dry	50	60	20	Dry	12,300	690	2,110	20	Dry	Dry	Dry	20
Nitrite + Nitrate as N (NOx)	µg/L	10	15	<10	<10	120	80	<10	<10	<10	2	39,100	10	<10	10	<10	60	20	<10	60	<10	32,600	Dry	Dry	Dry	Dry	Dry	8,220	7,580	10,200	Dry	33,400	37,800	38,000	10,300	Dry	Dry	Dry	6,820
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	200	100	200	200	100	100	100	400	5,200	<100	<100	<100	<100	400	100	100	200	600	100	Dry	Dry	Dry	Dry	Dry	3,800	1,700	2,500	Dry	15,000	4,200	7,200	8,000	Dry	Dry	Dry	2,500
Nitrogen (Total)	µg/L	100	250	200	100	300	300	100	100	100	400	44,300	<100	<100	<100	<100	500	100	100	300	600	32,700	Dry	Dry	Dry	Dry	Dry	12,000	9,300	12,700	Dry	48,400	42,000	45,200	18,300	Dry	Dry	Dry	9,300
Reactive Phosphorus	µg/L	1	15	<1	<1	<1	<1	<1	<1	<1	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	Dry	Dry	Dry	Dry	Dry	<10	<10	<10	Dry	<10	<10	<10	<10	Dry	Dry	Dry	<10
Phosphorus (Total)	µg/L	10	20	<10	<10	<10	30	<10	<10	20	9	20	<10	30	10	<10	20	10	20	20	40	60	Dry	Dry	Dry	Dry	Dry	850	630	60	Dry	20	100	30	<10	Dry	Dry	Dry	730
Inorganics																																							
Cyanide Total	µg/L	4	4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	Dry	Dry	Dry	Dry	Dry	<4	<4	<4	Dry	116	<4	7	<4	Dry	Dry	Dry	
Hydrocarbons																																							
Oil and Grease	mg/L	1	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	Dry	Dry	Dry	Dry	Dry	<1	<1	<1	Dry	<1	<1	<1	<1	Dry	Dry	Dry	<1
Metals																																							
Aluminium (total)	µg/L	5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aluminium (dissolved)	µg/L	5	27	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	7	8	9	8	8	16	16	31	Dry	Dry	Dry	Dry	Dry	11	9	8	Dry	16	20	8	6	Dry	Dry	Dry	6
Arsenic (total)	µg/L	0.2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	µg/L	0.2	0.8	0.7	0.3	0.7	0.7	0.7	0.6	0.6	<1	1.1	<0.2	<0.2	<0.2	<0.2	0.4	<0.2	<0.2	0.3	0.3	4.4	Dry	Dry	Dry	Dry	Dry	19.5	21.4	15.4	Dry	1.3	1.9	2.3	2.5	Dry	Dry	Dry	2.0
Chromium (III+VI) (total)	µg/L	0.2	No Water Quality Objective Value	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	5.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (III+VI) (dissolved)	µg/L	0.2	0.01	<0.2	<0.2	<0.2	<0.2	0.2	<0.2	<0.2	<1	1.6	0.3	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	2.3	Dry	Dry	Dry	Dry	Dry	15.0	21.2	11.0	Dry	14.1	7.2	13.6	1.6	Dry	Dry	Dry	0.3
Copper (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	µg/L	0.5	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	Dry	Dry	Dry	Dry	Dry	6.2	2.0	2.0	Dry	2.0	1.5	1.7	<0.5	Dry	Dry	Dry	1.0
Iron (total)	µg/L	2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,410	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	µg/L	2	300	48	21	7	9	3	4	6	<50	8	14	9	33	25	83	118	134	211	136	3	Dry	Dry	Dry	Dry	Dry	20	5	<2	Dry	<2	<2	<2	<2	Dry	Dry	Dry	8
Lead (total)	µg/L	0.1	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	µg/L	0.1	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	0.2	<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	0.5	0.1	<0.1	Dry	<0.1	<0.1	<0.1	<0.1	Dry	Dry	Dry	<0.1
Manganese (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	µg/L	0.5	1,200	3.2	3.8	1.3	3.4	0.6	0.6	1.4	<5	238	3.3	1.0	4.4	2.1	<0.5	6.7	9.3	36.2	4.1	1.7	Dry	Dry	Dry	Dry	Dry	0.8	<0.5	<0.5	Dry	2.1	42.0	116	<0.5	Dry	Dry	Dry	7.9
Nickel (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	µg/L	0.5	8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	4.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	Dry	Dry	Dry	Dry	Dry	1.8	0.8	0.8	Dry	0.6	1.8	1.9	1.9	Dry	Dry	Dry	1.1
Silver (total)	µg/L	0.01	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	µg/L	0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<5	<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	<0.01	<0.01	<0.01	Dry	0.02	<0.01	<0.01	<0.01	Dry	Dry	Dry	<0.01
Zinc (total)	µg/L	1	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	µg/L	1	2.4	<1	<1	<1	<1	<1	<1	<1	<5	14	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	Dry	Dry	Dry	Dry	Dry	1	<1	<1	Dry	<1	<1	<1	<1	Dry	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 99% of aquatic species ANZECC / ARMCANZ (2018), they are not pollutant limits imposed by EPL 21266.

\- Samples not required

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

Date	EPL 43 *	EPL 50 ^	EPL 44	EPL 45	EPL 47	EPL 48	EPL 49
	Discharge volume (Megalitres)		Discharge volume (Megalitres)				
1/04/2025	-	0.12	0.21	0.05	0.19	0.06	1.10
2/04/2025	0.52	0.63	0.25	0.06	0.23	0.08	0.95
3/04/2025	0.46	-	0.22	0.05	0.23	0.09	0.62
4/04/2025	0.38	0.82	0.14	0.07	0.28	0.10	0.60
5/04/2025	0.28	-	0.04	0.03	0.24	0.07	0.33
6/04/2025	-	0.74	0.19	0.06	0.21	0.10	0.72
7/04/2025	-	-	0.30	0.06	0.25	0.07	0.59
8/04/2025	-	0.34	0.46	0.06	0.22	0.09	0.76
9/04/2025	-	0.58	0.48	0.06	0.23	0.05	0.52
10/04/2025	-	-	0.51	0.08	0.17	0.09	0.71
11/04/2025	-	0.44	0.25	0.07	0.18	0.28	0.71
12/04/2025	0.17	0.33	0.41	0.05	0.30	0.08	0.48
13/04/2025	-	0.37	0.27	0.05	0.23	0.04	0.53
14/04/2025	-	0.61	0.27	0.05	0.39	0.03	0.66
15/04/2025	0.28	-	0.59	0.05	0.22	0.08	0.52
16/04/2025	-	0.55	0.29	0.04	0.20	0.25	0.46
17/04/2025	-	0.18	0.16	0.04	0.19	0.09	0.52
18/04/2025	-	-	0.28	0.06	0.18	0.05	0.56
19/04/2025	-	-	0.28	0.04	0.20	0.07	0.54
20/04/2025	-	-	0.31	0.05	0.19	0.09	0.64
21/04/2025	-	-	0.36	0.05	0.19	0.10	0.51
22/04/2025	-	0.07	0.50	0.06	0.20	0.06	0.35
23/04/2025	-	-	0.41	0.09	0.19	0.03	0.62
24/04/2025	0.43	0.14	0.28	0.06	0.20	0.02	0.33
25/04/2025	0.56	-	0.19	0.05	0.23	0.08	0.36
26/04/2025	-	-	0.27	0.05	0.21	0.08	0.29
27/04/2025	0.37	-	0.47	0.06	0.22	0.02	0.58
28/04/2025	-	-	0.20	0.06	0.26	0.05	0.54
29/04/2025	0.46	-	0.49	0.05	0.22	0.09	0.71
30/04/2025	-	-	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*	EPL 41	EPL 43	EPL 44	EPL 45	EPL 47	EPL 48	EPL 49	EPL 50
Flow Rate				**23/04/2025**							**27/04/2025**
Inflow#	**ML/day**	-	-	-	0.0000	0.3093	0.0545	0.2226	0.0815	0.5803	-
Outflow#	**ML/day**	-	4.32 (EPL 43 / 50)	-	-	-	-	-	-	-	-
Field											
pH	**pH Unit**	-	6.5-8.5	7.63	-	-	-	-	-	-	7.71
Electrical Conductivity	**µS/cm**	-	700 (EPL 41) / 200 (EPL 50)	9.4	-	-	-	-	-	-	19.1
Oxidation Reduction Potential	**mV**	-	No Water Quality Objective Value	156	-	-	-	-	-	-	97.8
Temperature	**°C**	-	15	19.91	-	-	-	-	-	-	16.7
Dissolved Oxygen	**% saturation**	-	No Water Quality Objective Value	56	-	-	-	-	-	-	88.8
Turbidity	**NTU**	-	<25	0.24	-	-	-	-	-	-	0.58
Laboratory analytes											
Total suspended solids	**mg/L**	5	5/10	<5	-	-	-	-	-	-	<5
Hardness as $CaCO_3$ (filtered)	**mg/L**	1	No Water Quality Objective Value	<1	-	-	-	-	-	-	<1
Nutrients											
Ammonia as N	**µg/L**	10	200/2000^	20	-	-	-	-	-	-	<10
Nitrite + Nitrate as N (NOx)	**µg/L**	10	10	80	-	-	-	-	-	-	10
Kjeldahl Nitrogen Total	**µg/L**	100	No Water Quality Objective Value	<100	-	-	-	-	-	-	<100
Nitrogen (Total)	**µg/L**	100	350/-^	<100	-	-	-	-	-	-	<100
Reactive Phosphorus	**µg/L**	1	No Water Quality Objective Value	<1	-	-	-	-	-	-	<10
Phosphorus (Total)	**µg/L**	10	100/300^	<1	-	-	-	-	-	-	20
Inorganics											
Cyanide Total	**µg/L**	4	No Water Quality Objective Value	<4	-	-	-	-	-	-	<4
Hydrocarbons											
Oil and Grease	**mg/L**	1	2/5^	<1.0	-	-	-	-	-	-	<1.0
Metals											
Aluminium (dissolved)	**µg/L**	5	55	<5	-	. -	-	-	-	-	<5
Arsenic (dissolved)	**µg/L**	0.2	13	<0.2	-	. -	-	-	-	-	<0.2
Chromium (III+VI) (dissolved)	**µg/L**	0.2	1	<0.2	-	. -	-	-	-	-	<0.2
Copper (dissolved)	**µg/L**	0.5	14	<0.5	-	. -	-	-	-	-	0.6
Iron (dissolved)	**µg/L**	2	300	<2	-	. -	-	-	-	-	<2
Lead (dissolved)	**µg/L**	0.1	3.4	<0.1	-	. -	-	-	-	-	<0.1
Manganese (dissolved)	**µg/L**	0.5	1,900	<0.5	-	. -	-	-	-	-	<0.5
Nickel (dissolved)	**µg/L**	0.5	11	<0.5	-	. -	-	-	-	-	<0.5
Silver (dissolved)	**µg/L**	0.01	0.05	<0.01	-	. -	-	-	-	-	<0.01
Zinc (dissolved)	**µg/L**	1	8	<1	-	-	-	-	-	-	5
Biological											
Faecal Coliforms	**CFU/100mL**	1	10/100^	<1	-	-	-	-	-	-	<1
Biological Oxygen Demand	**mg/L**	2	5	<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 disdharge 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 discahrge 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.

Snowy Hydro 2.0 Main Works

Monthly EPL Sampling: 01-31 May 2025 - Groundwater

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL1	EPL2	EPL4	EPL25	EPL56	EPL57	EPL58	EPL68	EPL69	EPL70	EPL72
Physiochemical				6/05/2024	6/05/2024	6/05/2024	6/05/2024	5/05/2025	19/05/2025	19/05/2025	17/05/2025	17/05/2025	24/05/2025	2/05/2025
pH	pH Unit	-	6.5-8	8.18	8.17	-	8.16	7.9	8.69	5.97	6.6	6.56	6.5	6.52
Electrical Conductivity	µS/cm	-	30-350	916	490	-	420	234	226	936	15	30	134	58
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	-128	7	-	-43	102	-96	235	274	292	370	-2
Temperature	°C	-	No Water Quality Objective Value	16.56	15.75	-	15.51	12.62	12.72	15.39	11.68	11.28	10.84	8.84
Dissolved Oxygen	% saturation	-	No Water Quality Objective Value	84.9	90.4	-	89.2	25.7	22.8	25.2	56	54.2	53.4	52.8
Turbidity	NTU	-	No Water Quality Objective Value	188	224	-	60.3	22	85.7	61.3	18.9	36.5	45.2	54.3
Laboratory analytes														
TSS	mg/L	5	No Water Quality Objective Value	124	316	-	20	14	18	5	<5	212	17	24
Hardness as CaCO3	mg/L	1	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-
Nutrients														
Ammonia as N	µg/L	10	13	460	70	-	30	10	<10	<10	<10	<10	<10	30
Nitrite + Nitrate as N (NOx)	µg/L	10	15	<10	<10	-	110	120	1,520	64,700	740	120	810	40
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	700	100	-	100	<100	100	7,200	100	<100	<100	<100
Nitrogen (Total)	µg/L	100	250	700	100	-	200	100	1,600	71,900	800	100	800	<100
Reactive Phosphorus	µg/L	1	15	<10	<10	-	<10	<10	<10	<10	<10	<10	20	20
Phosphorus (Total)	µg/L	10	20	170	100	-	30	20	60	<10	40	30	60	10
Inorganics														
Cyanide Total	µg/L	4	4	-	-	-	-	<4	<4	<4	<4	<4	<4	<4
Hydrocarbons														
Oil and Grease	mg/L	1	5	-	-	-	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Metals														
Aluminium (total)	µg/L	5	No Water Quality Objective Value	-	-	-	-	159	120	112	166	2,090	1,040	48
Aluminium (dissolved)	µg/L	5	27	<5	<5	-	<5	<5	<5	<5	<5	<5	<5	7
Arsenic (total)	µg/L	0.2	No Water Quality Objective Value	-	-	-	-	<0.2	2.4	<0.2	<0.2	0.8	<0.2	<0.2
Arsenic (dissolved)	µg/L	0.2	0.8	1.4	2.2	-	0.2	<0.2	2.5	<0.2	<0.2	<0.2	<0.2	<0.2
Chromium (III+VI) (total)	µg/L	0.2	No Water Quality Objective Value	-	-	-	-	0.8	0.4	5.5	0.3	2.8	0.8	0.3
Chromium (III+VI) (dissolved)	µg/L	0.2	0.01	0.3	<0.2	-	<0.2	<0.2	<0.2	0.2	<0.2	0.2	<0.2	<0.2
Copper (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	13.5	5.7	17.2	<0.5	7.7	30.6	3.1
Copper (dissolved)	µg/L	0.5	1	0.7	15.2	-	27.0	0.5	1.2	10.0	<0.5	<0.5	5.9	1.2
Iron (total)	µg/L	2	No Water Quality Objective Value	-	-	-	-	207	106	164	80	1,970	645	28
Iron (dissolved)	µg/L	2	300	12	<2	-	<2	<2	<2	2	<2	5	<2	<2
Lead (total)	µg/L	0.1	No Water Quality Objective Value	-	-	-	-	3.8	0.3	2.9	<0.1	1.6	0.5	0.3
Lead (dissolved)	µg/L	0.1	1	<0.1	<0.1	-	<0.1	<0.1	<0.1	0.9	<0.1	<0.1	<0.1	<0.1
Manganese (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	34.5	95.5	16.2	2.5	112	15.7	6.5
Manganese (dissolved)	µg/L	0.5	1,200	110	431	-	791	3.3	67.0	12.4	1.6	2.1	1.2	5.4
Nickel (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	0.8	0.8	8.0	0.9	3.3	0.6	2.8
Nickel (dissolved)	µg/L	0.5	8	2.6	5.3	-	24.8	<0.5	<0.5	5.7	<0.5	<0.5	<0.5	1.7
Silver (total)	µg/L	0.01	No Water Quality Objective Value	-	-	-	-	<0.01	<0.01	0.02	<0.01	0.03	<0.01	<0.01
Silver (dissolved)	µg/L	0.01	0.02	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc (total)	µg/L	1	No Water Quality Objective Value	-	-	-	-	7	3	13	4	9	2	7
Zinc (dissolved)	µg/L	1	2.4	<1	3	-	188	2	<1	14	2	3	<1	5

Analyte	EPL73 (decommisioned)	EPL80	EPL81	EPL82	EPL83	EPL87	EPL88	EPL89	EPL 90	EPL 91	EPL92	EPL93	EPL94	EPL95	EPL96
Physiochemical	-	24/05/2025	7/05/2025	5/05/2025	5/05/2025	24/05/2025	5/05/2025	5/05/2025	6/05/2025	19/05/2025	19/05/2025	19/05/2025	19/05/2025	19/05/2025	19/05/2025
pH	-	6.73	6.87	6.74	6.34	6.4	6.9	6.91	8.18	6.87	8.13	7.1	6.85	6.09	7.32
Electrical Conductivity	-	924	851	2340	529	827	716	320	66	192	497	208	150	1001	811
Oxidation Reduction Potential	-	-17	2	-2	39	193	-76	163	169	2	30	150	0.1	238	197
Temperature	-	13.35	13.35	17.44	17.41	15.63	17.05	14.94	15.26	14.22	10.18	13.09	13.11	15.3	14.52
Dissolved Oxygen	-	18.2	18.2	13.7	6.34	18.8	25.9	24.6	90	23.9	77.4	19.6	33.4	101.3	30.3
Turbidity	-	229	1000	47.1	19.3	92.8	2.2	112	1000	37.4	161	915	119	24.5	915
Laboratory analytes															
TSS	-	16	23,200	108	9	33	<5	12	424	26	654	206	53	6	1,110
Hardness as CaCO3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nutrients															
Ammonia as N	-	30	270	120	60	<10	240	10	20	60	120	20	30	30	350
Nitrite + Nitrate as N (NOx)	-	<10	<10	<10	<10	9,860	<10	30	610	<10	40	20	30	56,200	16,400
Kjeldahl Nitrogen Total	-	100	14,300	200	200	600	300	<100	<1,000	100	<1,000	100	200	5,800	6,300
Nitrogen (Total)	-	100	14,300	200	200	10,500	300	<100	<1,000	100	<1,000	100	200	62,000	22,700
Reactive Phosphorus	-	<10	20	10	<10	10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Phosphorus (Total)	-	210	7,730	40	40	40	90	60	6,030	130	430	50	60	40	2,710
Inorganics															
Cyanide Total	-	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Hydrocarbons															
Oil and Grease	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Metals															
Aluminium (total)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,560
Aluminium (dissolved)	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Arsenic (total)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.6
Arsenic (dissolved)	-	2.2	7.0	18.5	19.6	0.3	28.5	0.4	<0.2	0.9	0.3	1.1	0.8	0.8	0.8
Chromium (III+VI) (total)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.8
Chromium (III+VI) (dissolved)	-	<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	12.9
Copper (total)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.7
Copper (dissolved)	-	<0.5	<0.5	<0.5	1.4	7.9	<0.5	1.9	1.3	<0.5	<0.5	<0.5	<0.5	60.9	1.3
Iron (total)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,660
Iron (dissolved)	-	<2	419	2,130	87	<2	522	<2	<2	8	<2	<2	<2	<2	2
Lead (total)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.1
Lead (dissolved)	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	<0.1	<0.1	0.1	0.5
Manganese (total)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	194
Manganese (dissolved)	-	212	250	350	75.1	129	188	6.1	6.7	446	55.0	29.8	292	338	112
Nickel (total)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.1
Nickel (dissolved)	-	17.6	2.0	0.9	17.7	14.3	2.6	1.6	2.7	0.8	1.4	<0.5	0.7	14.0	4.6
Silver (total)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.01
Silver (dissolved)	-	<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
Zinc (total)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23
Zinc (dissolved)	-	1	2	2	4	2	1	<1	12	1	5	<1	3	41	12

Analyte	EPL97	EPL102 (Decommisioned)	EPL103	EPL104	EPL105	EPL113	EPL114	EPL115	EPL116	EPL117	EPL123	EPL124	EPL125	EPL126	EPL127
Physiochemical	19/05/2025	-	17/05/2025	17/05/2025	24/05/2025	3/05/2025	3/05/2025	3/05/2025	3/05/2025	3/05/2025	27/05/2025	20/05/2025	20/05/2025	10/05/2025	27/05/2025
pH	6.89	-	6.21	6.27	6.41	6.13	7.27	7.4	7.27	6.72	7.32	5.82	5.7	7.61	6.8
Electrical Conductivity	811	-	34	41	131	129	341	316	167	122	52	22	76	291	118
Oxidation Reduction Potential	197	-	285	294	386	120	120	61	188	-25	278	328	344	156	340
Temperature	14.52	-	11.44	11.66	11.1	12.26	12.05	12.55	12.8	12.34	8.38	12.18	10.88	12.54	11.34
Dissolved Oxygen	30.3	-	71.7	44.9	95.9	22.5	26.7	18.7	61	17.6	58.3	63	40.5	29.1	38.1
Turbidity	23.7	-	33.3	23.7	177	556	34.8	176	1000	167	13.31	193	258	156	39.8
Laboratory analytes															
TSS	12	-	18	9	37	403	18	216	6,910	1,670	2,390	74	174	1,930	16
Hardness as CaCO3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nutrients															
Ammonia as N	90	-	<10	<10	<10	20	40	30	40	30	<10	10	30	20	<10
Nitrite + Nitrate as N (NOx)	280	-	870	220	2,510	40	<10	<10	30	<10	240	370	80	20	100
Kjeldahl Nitrogen Total	<100	-	<100	<100	100	1,500	100	200	2,200	200	<5,000	200	2,600	<2,000	<100
Nitrogen (Total)	300	-	900	200	2,600	1,500	100	200	2,200	200	<5,000	600	2,700	<2,000	100
Reactive Phosphorus	<10	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	70	30	10
Phosphorus (Total)	20	-	60	50	20	100	40	60	1,920	650	<500	<10	170	370	10
Inorganics															
Cyanide Total	<4	-	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Hydrocarbons															
Oil and Grease	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Metals															
Aluminium (total)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aluminium (dissolved)	<5	-	<5	<5	<5	7	<5	27	<5	<5	<5	7	<5	9	<5
Arsenic (total)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	0.3	-	<0.2	<0.2	<0.2	0.4	0.4	0.4	0.8	2.1	<0.2	<0.2	0.6	1.2	<0.2
Chromium (III+VI) (total)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (III+VI) (dissolved)	0.6	-	<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
Copper (total)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	<0.5	-	9.1	<0.5	1.8	2.0	<0.5	<0..5	<0.5	<0.5	<0.5	69.8	1.9	<0.5	16.9
Iron (total)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	<2	-	<2	<2	<2	12	9	<2	<2	4,510	<2	<2	<2	3	2
Lead (total)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	<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
Manganese (total)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	337	-	0.9	3.2	44.0	72.5	365	375	28.9	403	42.3	24.6	<0.5	10.7	14.3
Nickel (total)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	1.8	-	<0.5	<0.5	5.4	<0.5	22.0	<0.5	0.7	1.7	1.3	1.4	<0.5	<0.5	4.8
Silver (total)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	<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
Zinc (total)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	30	-	<1	<1	25	3	5	<0.1	2	<1	<1	5	<1	<1	5

* 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 EPL 21266.

\- Sample not required at this location.

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*	EPL10	EPL11	EPL28	EPL29	EPL32	EPL38	EPL39	EPL40	EPL46	EPL51	EPL107	EPL108	EPL109
Field				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
pH	pH Unit	-	6.5-8	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
Electrical Conductivity	µS/cm	-	20-30	54	50	31	30	30	23	27	40.4	34	30	28	24	25
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	205	206	318	349	353	243	156	138.4	367	349	197	192	186
Temperature	°C	-	No Water Quality Objective Value	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
Dissolved Oxygen	% saturation	-	90-110	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
Turbidity	NTU	-	1-20	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
Laboratory analytes																
Total suspended solids	mg/L	5	No Water Quality Objective Value	28	14	6	<5	<5	12	8	<5	<5	<5	8	<5	<5
Hardness as $CaCO_3$ (filtered)	mg/L	1	No Water Quality Objective Value	33	33	9	9	9	9	7	9	9	9	17	14	14
Nutrients																
Ammonia as N	µg/L	10	10	30	30	60	60	60	<10	<10	40	100	60	80	40	70
Nitrite + Nitrate as N (NOx)	µg/L	10	10	10	30	20	10	10	10	50	<10	50	10	10	20	<10
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	100	200	500	500	400	1,000	<100	<100	500	500	200	200	200
Nitrogen (Total)	µg/L	100	350	100	200	500	500	400	1,000	<100	<100	600	500	200	200	200
Reactive Phosphorus	µg/L	1	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Phosphorus (Total)	µg/L	10	10	<10	10	10	20	<10	60	50	<10	10	20	20	<10	<10
Inorganics																
Cyanide Total	µg/L	4	7	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Hydrocarbons																
Oil and Grease	mg/L	1	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Metals																
Aluminium (dissolved)	µg/L	5	55	<5	<5	30	26	26	26	14	14	26	27	<5	<5	<5
Arsenic (dissolved)	µg/L	0.2	13	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
Chromium (III+VI) (dissolved)	µg/L	0.2	1	<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
Copper (dissolved)	µg/L	0.5	14	<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
Iron (dissolved)	µg/L	2	300	5	5	96	96	97	107	53	47	92	95	3	<2	2
Lead (dissolved)	µg/L	0.1	3.4	<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
Manganese (dissolved)	µg/L	0.5	1,900	<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
Nickel (dissolved)	µg/L	0.5	11	<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
Silver (dissolved)	µg/L	0.01	0.05	<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
Zinc (dissolved)	µg/L	1	8	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	<1	<1	<1
Biological																
Faecal Coliforms	CFU/100mL	1	10/100^	6	3	22	-	-	-	-	-	-	11	-	-	-
Biochemical Oxygen Demand	mg/L	2	1/5^	3	4	8	-	-	-	-	-	-	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 feacal 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 May 2025 - Surface Water

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL5	EPL6	EPL8	EPL9	EPL12	EPL14	EPL15	EPL16	EPL24	EPL26	EPL27	EPL30	EPL31	EPL33	EPL34	EPL35	EPL36	EPL37	EPL52	EPL53	EPL54	EPL55	EPL67	EPL71	EPL84	EPL85	EPL86	EPL98	EPL99	EPL100	EPL101	EPL106	EPL110	EPL118	EPL120	EPL122
Field				7/05/2025	7/05/2025	7/05/2025	7/05/2025	7/05/2025	7/05/2025	7/05/2025	7/05/2025	3/05/2025	2/05/2025	18/05/2025	21/05/2025	21/05/2025	21/05/2025	21/05/2025	21/05/2025	21/05/2025	27/05/2025	Dry	Dry	Dry	Dry	Dry	23/05/2025	5/05/2025	24/05/2025	24/05/2025	Dry	2/05/2025	23/05/2025	2/05/2025	3/05/2025	Dry	Dry	Dry	28/05/2025
pH	-	-	6.5-8	8.17	8.12	8.11	8.01	8.17	8.13	8.14	8.08	8.71	8	5.92	8.09	7.78	7.59	7.52	7.43	6.83	7.28	Dry	Dry	Dry	Dry	Dry	7.7	9.18	8.97	8.39	Dry	10.62	8.62	9.06	8.92	Dry	Dry	Dry	8.64
Electrical Conductivity	uS/cm	-	30-350	135	130	138	141	135	138	139	142	956	29	21	32	21	21	23	22	47	60	Dry	Dry	Dry	Dry	Dry	216	969	730	929	Dry	356	541	635	1460	Dry	Dry	Dry	658
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	172	228	47	119	208	234	238	142	205	217	216	205	244	264	277	262	298	305	Dry	Dry	Dry	Dry	Dry	148	61	133	152	Dry	-13	132	84	151	Dry	Dry	Dry	244
Temperature	°C	-	No Water Quality Objective Value	9.84	8.14	9.99	9.3	9.26	8.54	8.73	8.87	14.55	6.43	6.05	7.5	7.59	9.59	7.2	7.38	8.58	6.77	Dry	Dry	Dry	Dry	Dry	9.9	18.2	12.17	12.12	Dry	10.47	9.72	8.82	11.81	Dry	Dry	Dry	11.94
Dissolved Oxygen	% saturation	-	90-110	81	80.5	70.5	63.9	73.8	73.8	90.3	63.2	54.2	82.6	92.8	92.9	84.4	67.1	82.2	65.8	99.8	101	Dry	Dry	Dry	Dry	Dry	66.9	123.6	50.4	58.7	Dry	60.6	60.9	92.5	90.1	Dry	Dry	Dry	87.5
Turbidity	NTU	-	2-25	0.3	1.1	41.3	7.1	5.8	5.8	0.3	6.2	4.8	9.01	29.4	11.6	8.1	18	5.9	4.5	23.5	15.6	Dry	Dry	Dry	Dry	Dry	1000	1000	1000	448	Dry	63.6	991	89.7	192	Dry	Dry	Dry	499
Laboratory analytes																																							
TSS	mg/L	5	No Water Quality Objective Value	<5	<5	<5	<5	<5	<5	<5	<5	13	<5	<5	<5	<5	7	<5	<5	10	13	Dry	Dry	Dry	Dry	Dry	Dry	656	340	2,100	Dry	27	343	21	44	Dry	Dry	Dry	104
Hardness as CaCO3	mg/L	1	No Water Quality Objective Value	78	72	92	90	88	90	90	81	276	18	16	13	9	9	9	9	13	13	Dry	Dry	Dry	Dry	Dry	Dry	40	41	58	Dry	120	135	205	485	Dry	Dry	Dry	80
Nutrients																																							
Ammonia as N	µg/L	10	13	<10	30	10	10	40	10	<10	30	30	10	<10	10	10	40	20	<10	10	20	Dry	Dry	Dry	Dry	Dry	Dry	30	30	20	Dry	1,980	60	100	20	Dry	Dry	Dry	80
Nitrite + Nitrate as N (NOx)	µg/L	10	15	<10	<10	<10	<10	<10	<10	<10	<10	14,600	<10	<10	20	<10	10	10	<10	70	70	Dry	Dry	Dry	Dry	Dry	Dry	1,200	8,030	7,380	Dry	8,320	12,300	17,600	52,100	Dry	Dry	Dry	6,800
Kreibich Nitrogen Total	ug/L	100	No Water Quality Objective Value	<100	<100	<100	<100	<100	<100	<100	<100	7,300	<100	<100	100	<100	600	100	100	500	500	Dry	Dry	Dry	Dry	Dry	Dry	800	5,200	5,000	Dry	3,000	2,600	5,600	12,800	Dry	Dry	Dry	500
Nitrogen (Total)	ug/L	100	200	<100	<100	<100	<100	<100	<100	<100	41,900	<100	<100	100	100	<100	600	100	100	600	600	Dry	Dry	Dry	Dry	Dry	Dry	2,000	13,200	8,400	Dry	11,300	14,900	23,200	65,100	Dry	Dry	Dry	7,300
Reactive Phosphorus	µg/L	1	15	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	Dry	Dry	Dry	Dry	Dry	Dry	20	<10	20	Dry	<10	10	<10	<10	Dry	Dry	Dry	<10
Phosphorus (Total)	µg/L	10	20	20	50	10	50	20	10	40	40	<10	10	<10	10	20	50	<10	<10	40	40	Dry	Dry	Dry	Dry	Dry	Dry	1,350	1,110	1,360	Dry	20	540	30	<10	Dry	Dry	Dry	110
Inorganics																																							
Cyanide Total	µg/L	4	4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	Dry	Dry	Dry	Dry	Dry	Dry	<4	<4	<4	Dry	46	<4	12	<4	Dry	Dry	Dry	<4
Hydrocarbons																																							
Oil and Grease	mg/L	1	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	Dry	Dry	Dry	Dry	Dry	Dry	<1.0	<1.0	<1.0	Dry	<1.0	<1.0	<1.0	<1.0	Dry	Dry	Dry	<1.0
Metals																																							
Aluminium (total)	ug/L	5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							34,900		-	-	-	-	-	-				
Aluminium (dissolved)	µg/L	5	27	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	10	10	25	10	9	114	110	Dry	Dry	Dry	Dry	Dry	Dry	13	8	8	Dry	44	13	9	8	Dry	Dry	Dry	8
Arsenic (total)	ug/L	0.2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							9.8	-	-	-	-	-	-	-				
Arsenic (dissolved)	ug/L	0.2	0.8	0.7	0.2	0.6	0.6	0.6	0.6	0.6	0.6	0.3	<0.2	<0.2	<0.2	<0.2	0.4	<0.2	<0.2	0.4	0.5	Dry	Dry	Dry	Dry	Dry	Dry	0.5	20.4	16.3	Dry	1.2	1.8	2.3	2.1	Dry	Dry	Dry	0.6
Chromium (III+VI) (total)	ug/L	0.2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							82.2	-	-	-	-	-	-	-				
Chromium (III+VI) (dissolved)	µg/L	0.2	0.01	0.2	<0.2	<0.2	0.2	0.2	0.2	<0.2	0.2	0.4	0.3	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.5	0.5	Dry	Dry	Dry	Dry	Dry	Dry	0.8	12.7	13.2	Dry	56.9	5.9	11.1	1.6	Dry	Dry	Dry	0.6
Copper (total)	ug/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							54.7	-	-	-	-	-	-	-				
Copper (dissolved)	µg/L	0.5	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	0.6	Dry	Dry	Dry	Dry	Dry	Dry	0.9	5.8	1.9	Dry	<0.5	1.1	3.1	<0.5	Dry	Dry	Dry	1.3
Iron (total)	µg/L	2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							44,400		-	-	-	-	-	-				
Iron (dissolved)	ug/L	2	300	5	11	5	7	4	4	6	6	2	18	10	35	28	127	92	97	332	324	Dry	Dry	Dry	Dry	Dry	Dry	36	15	3	Dry	<2	<2	<2	3	Dry	Dry	Dry	23
Lead (total)	µg/L	0.1	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							18.7	-	-	-	-	-	-	-				
Lead (dissolved)	ug/L	0.1	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	<0.1	<0.1	<0.1	<0.1	<0.1	Dry	Dry	Dry	Dry	Dry	Dry	<0.1	0.3	0.1	Dry	<0.1	<0.1	0.1	<0.1	Dry	Dry	Dry	0.6
Manganese (total)	ug/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							1,020	-	-	-	-	-	-	-				
Manganese (dissolved)	ug/L	0.5	1,200	1.3	3.5	1.2	2.9	0.5	0.7	1.3	1.5	109	2.6	0.9	2.9	1.4	1.0	3.5	6.7	102	14.4	Dry	Dry	Dry	Dry	Dry	Dry	18.0	1.3	1.4	Dry	<0.5	7.9	12.8	<0.5	Dry	Dry	Dry	36.0
Nickel (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							110	-	-	-	-	-	-	-				
Nickel (dissolved)	ug/L	0.5	8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.9	0.8	Dry	Dry	Dry	Dry	Dry	Dry	0.9	2.0	0.9	Dry	<0.5	1.0	1.9	1.8	Dry	Dry	Dry	1.3
Silver (total)	ug/L	0.01	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							0.04	-	-	-	-	-	-	-				
Silver (dissolved)	µg/L	0.01	0.02	<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	<0.01	<0.01	<0.01	Dry	0.01	<0.01	<0.01	<0.01	Dry	Dry	Dry	<0.01
Zinc (total)	ug/L	1	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							116	-	-	-	-	-	-	-				
Zinc (dissolved)	µg/L	1	2.4	<1	<1	<1	<1	<1	<1	<1	9	<1	<1	<1	<1	<1	<1	<1	<1	2	1	Dry	Dry	Dry	Dry	Dry	Dry	8	1	<1	Dry	<1	<1	3	<1	Dry	Dry	Dry	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 EPL 21266.

\- Samples not required

Snowy Hydro 2.0 Main Works

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

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL 41	EPL 43	EPL 44	EPL 45	EPL 47	EPL 48	EPL 49	EPL 50
Flow Rate				25/05/2025							26/5/2025
Inflow[#]	ML/day	-	-	-	0.0000	0.3576	0.0568	0.2285	2.6710	0.5803	-
Outflow[#]	ML/day	-	4.32 (EPL 43 / 50)	-	-	-	-	-	-	-	-
Field											
pH	pH Unit	-	6.5-8.5	8.01	-	-	-	-	-	-	7.58
Electrical Conductivity	µS/cm	-	700 (EPL 41) / 200 (EPL 50)	16	-	-	-	-	-	-	46.18
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	147	-	-	-	-	-	-	-
Temperature	°C	-	15	14.59	-	-	-	-	-	-	7.3
Dissolved Oxygen	% saturation	-	No Water Quality Objective Value	68.7	-	-	-	-	-	-	-
Turbidity	NTU	-	<25	18.9	-	-	-	-	-	-	0.39
Laboratory analytes											
Total suspended solids	mg/L	5	5/10	<5	-	-	-	-	-	-	<5
Hardness as $CaCO_3$ (filtered)	mg/L	1	No Water Quality Objective Value	-	-	-	-	-	-	-	<1
Nutrients											
Ammonia as N	µg/L	10	200/2000^	<10	-	-	-	-	-	-	50
Nitrite + Nitrate as N (NOx)	µg/L	10	10	50	-	-	-	-	-	-	<10
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	<100	-	-	-	-	-	-	<100
Nitrogen (Total)	µg/L	100	350/-^	<100	-	-	-	-	-	-	<100
Reactive Phosphorus	µg/L	1	No Water Quality Objective Value	<10	-	-	-	-	-	-	<10
Phosphorus (Total)	µg/L	10	100/300^	10	-	-	-	-	-	-	20
Inorganics											
Cyanide Total	µg/L	4	No Water Quality Objective Value	<4	-	-	-	-	-	-	<4
Hydrocarbons											
Oil and Grease	mg/L	1	2/5^	<1.0	-	-	-	-	-	-	<1.0
Metals											
Aluminium (dissolved)	µg/L	5	55	<5	-	-	-	-	-	-	<5
Arsenic (dissolved)	µg/L	0.2	13	<0.2	-	-	-	-	-	-	<0.2
Chromium (III+VI) (dissolved)	µg/L	0.2	1	<0.2	-	-	-	-	-	-	1.5
Copper (dissolved)	µg/L	0.5	14	<0.5	-	-	-	-	-	-	1.3
Iron (dissolved)	µg/L	2	300	<2	-	-	-	-	-	-	<2
Lead (dissolved)	µg/L	0.1	3.4	<0.1	-	-	-	-	-	-	<0.1
Manganese (dissolved)	µg/L	0.5	1,900	<0.5	-	-	-	-	-	-	<0.5
Nickel (dissolved)	µg/L	0.5	11	<0.5	-	-	-	-	-	-	<0.5
Silver (dissolved)	µg/L	0.01	0.05	<0.01	-	-	-	-	-	-	<0.01
Zinc (dissolved)	µg/L	1	8	<1	-	-	-	-	-	-	2
Biological											
Faecal Coliforms	CFU/100mL	1	10/100^	<1	-	-	-	-	-	-	<1
Biological Oxygen Demand	mg/L	2	5	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	EPL 43 *	EPL 50 ^	EPL 44	EPL 45	EPL 47	EPL 48	EPL 49
	Discharge volume (Megalitres)		Discharge volume (Megalitres)				
1/05/2025	0.85	-	0.37	0.05	0.22	0.07	1.10
2/05/2025	0.93	-	0.30	0.05	0.22	0.09	0.95
3/05/2025	-	-	0.24	0.05	0.22	0.08	0.62
4/05/2025	1.07	-	0.45	0.05	0.22	0.07	0.60
5/05/2025	0.68	-	0.18	0.03	0.18	0.10	0.33
6/05/2025	0.70	-	0.60	0.05	0.26	0.07	0.72
7/05/2025	-	-	0.21	0.05	0.17	0.08	0.59
8/05/2025	0.87	-	0.26	0.04	0.25	0.55	0.76
9/05/2025	-	-	0.13	0.05	0.25	0.11	0.52
10/05/2025	-	-	0.44	0.08	0.16	-0.23	0.71
11/05/2025	-	-	0.43	0.05	0.21	0.08	0.71
12/05/2025	1.60	-	0.39	0.05	0.21	0.08	0.48
13/05/2025	-	0.14	0.11	0.04	0.23	0.07	0.53
14/05/2025	0.86	0.59	0.74	0.04	0.22	-0.06	0.66
15/05/2025	-	-	0.29	0.05	0.26	77.78	0.52
16/05/2025	0.32	0.23	0.50	0.05	0.16	0.07	0.46
17/05/2025	-	0.41	0.23	0.04	0.24	0.07	0.52
18/05/2025	-	0.72	0.32	0.06	0.23	-77.64	0.56
19/05/2025	-	0.50	0.43	0.08	0.27	77.79	0.54
20/05/2025	-	-	0.29	0.07	0.20	0.08	0.64
21/05/2025	0.51	-	0.30	0.03	0.09	-77.86	0.51
22/05/2025	0.59	0.74	0.24	0.03	0.09	77.97	0.35
23/05/2025	-	0.67	0.57	0.21	0.52	0.88	0.62
24/05/2025	0.83	0.89	0.44	0.07	0.27	-0.71	0.33
25/05/2025	-	0.45	0.35	0.05	0.22	0.12	0.36
26/05/2025	1.04	0.36	0.46	0.06	0.26	0.08	0.29
27/05/2025	0.40	-	0.32	0.04	0.21	0.10	0.58
28/05/2025	-	-	0.25	0.02	0.12	-78.45	0.54
29/05/2025	0.54	-	0.25	0.02	0.12	78.63	0.71
30/05/2025	-	-	0.28	0.12	0.37	0.07	0.60
31/05/2025	-	-	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=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 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.

Snowy Hydro 2.0 Main Works

Monthly EPL Sampling: 01-30 June 2025 - Groundwater

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL56	EPL57	EPL58	EPL68	EPL69	EPL70	EPL72	EPL73 (Decommissioned)	EPL80	EPL81	EPL82	EPL83	EPL87	EPL88	EPL89	EPL 90	EPL 91	EPL92	EPL93	EPL94	EPL95	EPL96	EPL97	EPL102 (Decommissioned)	EPL103	EPL104	EPL105	EPL113	EPL114	EPL115	EPL116	EPL117
Physicochemical				2/06/2025	2/06/2025	2/06/2025	14/06/2025	14/06/2025	14/06/2025	14/06/2025	-	21/06/2025	21/06/2025	21/06/2025	21/06/2025	21/06/2025	21/06/2025	21/06/2025	8/06/2025	2/06/2025	8/06/2025	8/06/2025	2/06/2025	2/06/2025	2/06/2025	2/06/2025	-	14/06/2025	14/06/2025	14/06/2025	14/06/2025	14/06/2025	14/06/2025	14/06/2025	14/06/2025
pH	pH Unit	-	6.5-8	7.86	8.13	5.99	7.68	7.15	7.45	6.73	-	8.01	8.02	7.71	8.24	8.08	8.14	8.27	5.96	6.76	6.66	7.08	6.85	5.96	7.01	6.7	-	11.28	12.37	11.81	7.71	11.33	9.89	10.63	11.49
Electrical Conductivity	µS/cm	-	30-350	163	168	684	21	50	95	54	-	709	784	2380	683	650	684	259	301	162	341	192	113	566	263	317	-	157	64	217	102	302	287	112	107
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	195	180	213	307	300	285	309	-	123	-32	-2	105	159	55	148	109	80	126	-109	57	211	215	144	-	216	344	316	205	52	137	150	26
Temperature	°C	-	No Water Quality Objective Value	13.14	15.79	16.12	11.87	9.88	9.86	8.5	-	15.11	13.84	16.57	14.57	15.44	14.49	13.96	12.87	14.62	14.12	14.23	13.29	15.08	13.64	14.5	-	11.28	12.37	11.81	7.71	11.33	9.89	10.63	11.49
Dissolved Oxygen	% saturation	-	No Water Quality Objective Value	15.9	34.8	19.3	66	41.9	49.1	52.3	-	18.4	15	21.1	12.2	20	86.1	27.5	90.4	16	70.5	97.1	47.7	29.1	21.8	13.2	-	89.7	49.5	88.8	34.9	28.9	74.5	68.9	28.7
Turbidity	NTU	-	No Water Quality Objective Value	22.9	95.8	80.6	4.4	9	25.1	144	-	29.2	1000	43.8	44.5	177	0	305	599	21.1	365	97.1	120	70.1	1000	33.1	-	13.6	11.5	8.5	107	0	123	149	64
Laboratory analytes																																			
TSS	mg/L	5	No Water Quality Objective Value	<5	40	<5	<5	<5	54	10	-	26	1,850	134	20	105	7	445	422	40	444	40	72	10	590	34	-	<5	<5	<5	138	22	280	564	118
Hardness as CaCO3	mg/L	1	No Water Quality Objective Value	125	110	352	<1	2	20	11	-	391	452	1,180	158	188	149	61	30	109	42	119	76	318	135	145	-	<1	7	61	52	196	170	47	39
Nutrients																																			
Ammonia as N	µg/L	10	13	70	<10	10	30	20	60	40	-	30	80	120	30	<10	180	10	20	90	20	20	30	40	<10	<10	-	<10	<10	20	20	40	<10	<10	20
Nitrite + Nitrate as N (NOx)	µg/L	10	15	120	1,500	65,200	680	200	750	80	-	<10	<10	30	1,540	14,100	<10	100	3,880	40	40	30	<10	58,900	11,200	400	-	840	250	6,070	30	<10	<10	90	40
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	100	300	7,800	<100	<100	100	100	-	200	1,300	300	300	300	200	<100	900	200	100	100	100	12,600	<2,000	100	-	<100	<100	400	400	100	200	100	200
Nitrogen (Total)	µg/L	100	250	200	1,800	73,000	700	200	800	200	-	200	1,300	300	1,800	14,400	200	100	4,800	200	100	100	100	71,500	11,200	500	-	800	200	6,500	400	100	200	200	200
Reactive Phosphorus	µg/L	1	15	<10	<10	<10	<10	<10	20	20	-	<10	<10	<10	10	10	30	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	10	<10	<10	<10	<10	<10	<10	<10
Phosphorus (Total)	µg/L	10	20	60	110	20	30	30	50	90	-	200	1,120	90	30	60	130	140	460	60	150	60	40	30	450	30	-	30	<10	10	60	20	20	50	210
Inorganics																																			
Cyanide Total	µg/L	4	4	<4	<4	<4	<4	<4	<4	<4	-	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	-	<4	<4	<4	<4	<4	<4	<4	<4
Hydrocarbons																																			
Oil and Grease	mg/L	1	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Metals																																			
Aluminium (total)	µg/L	5	No Water Quality Objective Value	40	1,020	5	229	499	2,230	153	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aluminium (dissolved)	µg/L	5	27	<5	<5	<5	<5	<5	<5	8	-	<5	<5	<5	<5	<5	<5	<5	26	<5	<5	<5	<5	<5	<5	<5	-	<5	<5	10	13	<5	<5	<5	<5
Arsenic (total)	µg/L	0.2	No Water Quality Objective Value	<0.2	3.4	<0.2	<0.2	<0.2	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	µg/L	0.2	0.8	<0.2	2.9	<0.2	<0.2	<0.2	<0.2	<0.2	-	0.7	6.2	11.6	1.5	<0.2	7.1	0.2	0.2	1.0	0.4	1.3	1.0	1.3	<0.2	<0.2	-	<0.2	<0.2	<0.2	0.3	0.4	0.4	0.5	1.1
Chromium (III+VI) (total)	µg/L	0.2	No Water Quality Objective Value	<0.2	2.8	0.6	0.3	0.6	1.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (III+VI) (dissolved)	µg/L	0.2	0.01	<0.2	<0.2	0.3	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	0.3	0.5	0.2	<0.2	0.3	<0.2	<0.2	<0.2	<0.2	<0.2	0.5	<0.2	-	<0.2	0.2	0.3	<0.2	<0.2	<0.2	0.2	<0.2
Copper (total)	µg/L	0.5	No Water Quality Objective Value	2.0	22.2	26.7	0.5	2.0	33.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	µg/L	0.5	1	<0.5	0.6	7.0	<0.5	1.1	15.2	2.2	-	0.6	3.8	<0.5	42.4	3.4	0.8	8.2	13.1	<0.5	<0.5	<0.5	<0.5	36.9	<0.5	<0.5	-	7.7	1.3	4.0	91.3	<0.5	<0.5	81.8	<0.5
Iron (total)	µg/L	2	No Water Quality Objective Value	66	1,210	5	108	276	1,260	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	µg/L	2	300	<2	<2	<2	<2	2	<2	<2	-	<2	2	1,790	8	<2	2	3	69	296	<2	<2	<2	<2	<2	2	-	<2	2	<2	22	8	<2	<2	2,280
Lead (total)	µg/L	0.1	No Water Quality Objective Value	0.2	2.7	1.5	<0.1	0.2	0.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	µg/L	0.1	1	<0.1	<0.1	0.3	<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	0.4	<0.1	<0.1	0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1
Manganese (total)	µg/L	0.5	No Water Quality Objective Value	19.1	174	8.6	3.4	7.5	27.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	µg/L	0.5	1,200	12.5	70.7	8.3	2.6	0.8	2.2	5.4	-	213	355	444	55.7	49.9	232	53.8	30.1	407	78.4	18.0	283	250	28.5	427	-	0.9	3.9	46.6	82.6	309	326	68.0	410
Nickel (total)	µg/L	0.5	No Water Quality Objective Value	<0.5	4.2	4.7	0.5	<0.5	0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	µg/L	0.5	8	<0.5	<0.5	3.5	<0.5	<0.5	<0.5	1.5	-	21.3	3.6	0.5	21.2	20.3	3.4	1.8	8.8	0.8	2.2	<0.5	0.8	13.2	1.7	2.3	-	<0.5	<0.5	7.4	1.2	3.6	0.5	3.7	3.5
Silver (total)	µg/L	0.01	No Water Quality Objective Value	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	µg/L	0.01	0.02	<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	0.02	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc (total)	µg/L	1	No Water Quality Objective Value	6	10	11	3	2	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	µg/L	1	2.4	2	<1	7	4	1	<1	6	-	9	3	2	6	2	4	2	24	1	14	1	4	52	1	42	-	<1	<1	28	4	<1	<1	4	<1

* 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 EPL 21266.

\- Sample not required at this location.

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*	EPL10	EPL11	EPL28	EPL29	EPL32	EPL38	EPL39	EPL40	EPL46	EPL51	EPL107	EPL108	EPL109
Field				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
pH	pH Unit	-	6.5-8	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
Electrical Conductivity	µS/cm	-	20-30	39	36	27	37	35	33	20	26	31	62	33	29	31
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	284	285	171	131	142	240	266	182	203	109	281	273	255
Temperature	°C	-	No Water Quality Objective Value	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
Dissolved Oxygen	% saturation	-	90-110	73	95.7	79	68.3	65.9	72.8	81.3	73	89.2	71.3	98.6	99.9	104.3
Turbidity	NTU	-	1-20	2.9	3.8	1.8	0	0	5.1	5.1	2.1	1.9	0.5	3.4	2.8	3.2
Laboratory analytes																
Total suspended solids	mg/L	5	No Water Quality Objective Value	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Hardness as $CaCO_3$	mg/L	1	No Water Quality Objective Value	14	14	5	5	5	2	<1	5	9	9	12	12	12
Nutrients																
Ammonia as N	µg/L	10	10	80	10	70	160	150	170	<10	70	170	310	30	10	50
Nitrite + Nitrate as N (NOx)	µg/L	10	10	30	20	60	60	40	30	50	70	40	40	30	20	30
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	200	200	500	700	1,000	500	100	400	600	700	200	100	300
Nitrogen (Total)	µg/L	100	350	200	200	600	800	1,000	500	200	500	600	700	200	100	300
Reactive Phosphorus	µg/L	1	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Phosphorus (Total)	µg/L	10	10	20	40	<10	<10	10	20	<10	10	40	30	<10	<10	30
Inorganics																
Cyanide Total	µg/L	4	7	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Hydrocarbons																
Oil and Grease	mg/L	1	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Metals																
Aluminium (dissolved)	µg/L	5	55	<5	<5	47	39	38	39	32	54	36	38	<5	<5	<5
Arsenic (dissolved)	µg/L	0.2	13	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
Chromium (III+VI) (dissolved)	µg/L	0.2	1	<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
Copper (dissolved)	µg/L	0.5	14	<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
Iron (dissolved)	µg/L	2	300	14	11	93	112	119	115	52	96	111	114	10	10	5
Lead (dissolved)	µg/L	0.1	3.4	<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
Manganese (dissolved)	µg/L	0.5	1,900	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
Nickel (dissolved)	µg/L	0.5	11	<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
Silver (dissolved)	µg/L	0.01	0.05	<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
Zinc (dissolved)	µg/L	1	8	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Biological																
Faecal Coliforms	CFU/100mL	1	10/100^	1	51**	4	-	-	-	-	-	-	<1	-	-	-
Biochemical Oxygen Demand	mg/L	2	1/5^	2	<2	<2	-	-	-	-	-	-	<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 June 2025 - Surface Water

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL5	EPL6	EPL8	EPL9	EPL12	EPL14	EPL15	EPL16	EPL24	EPL26	EPL27	EPL30	EPL31	EPL33	EPL34	EPL35	EPL36	EPL37	EPL52	EPL53	EPL54	EPL55	EPL67	EPL71	EPL84	EPL85	EPL86	EPL98	EPL99	EPL100	EPL101	EPL106	EPL110	EPL118	EPL120	EPL122
Field				2/06/2025	2/06/2025	2/06/2025	9/06/2025	2/06/2025	2/06/2025	2/06/2025	2/06/2025	2/06/2025	13/06/2025	13/06/2025	14/06/2025	14/06/2025	14/06/2025	14/06/2025	14/06/2025	6/06/2025	3/06/2025	Dry	Dry	Dry	Dry	Dry	6/06/2025	6/06/2025	6/06/2025	13/06/2025	Dry	13/06/2025	6/06/2025	13/06/2025	6/06/2025	14/06/2025	Dry	Dry	8/06/2025
pH	-	-	6.5-8	8.27	8.21	7.97	7.03	8.32	8.17	8.14	8.35	7.07	7.37	7.42	7.44	7.45	7.59	7.52	7.46	7.79	7.58	-	-	-	-	-	6.87	7.35	8.91	8.15	-	7.19	8.18	7.04	8.37	8.2	-	-	7.7
Electrical Conductivity	µS/cm	-	30-350	136	132	154	58	134	133	136	141	1010	45	124	40	27	32	23	18	40	51	-	-	-	-	-	81	754	608	1080	-	441	621	1740	1140	56	-	-	486
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	246	253	240	170	250	246	246	251	242	218	216	216	241	250	177	190	242	257	-	-	-	-	-	286	186	52	157	-	130	259	143	127	133	-	-	113
Temperature	°C	-	No Water Quality Objective Value	5.91	5.18	5.45	7.52	6.05	5.36	5.96	6.38	12.86	4.62	5.62	3.05	2.85	4.3	2.59	1.8	5.12	5.79	-	-	-	-	-	6.54	6.11	9.45	8.23	-	7.88	5.73	5.75	9.1	8.31	-	-	10.18
Dissolved Oxygen	% saturation	-	90-110	97.5	78.5	109.8	68.4	104.6	92.4	88	101.3	121.9	71.7	63.1	68.3	70.2	79.7	105.6	68.9	107.8	95.6	-	-	-	-	-	61.9	81.7	92.3	72.1	-	71.4	122.2	64.8	57.4	57.5	-	-	71.2
Turbidity	NTU	-	2-25	0.71	0.29	0.8	8.7	0.85	5	1.24	1.24	5.57	1.5	10.4	3.7	4.4	6.4	4.8	4.7	9.7	11	-	-	-	-	-	29.1	209	389	94.7	-	10.5	21.9	10.8	5.8	0	-	-	245
Laboratory analytes																																							
TSS	mg/L	5	No Water Quality Objective Value	<5	<5	6	6	<5	12	8	<5	8	<5	<5	<5	<5	<5	<5	<5	<5	15	-	-	-	-	-	25	118	118	50	-	<5	<5	8	6	<5	-	-	125
Hardness as CaCO3	mg/L	1	No Water Quality Objective Value	66	67	68	38	66	66	68	68	231	18	12	9	2	2	<1	<1	13	13	-	-	-	-	-	24	70	62	260	-	142	234	271	528	19	-	-	93
Nutrients																																							
Ammonia as N	µg/L	10	13	10	<10	<10	10	10	20	<10	<10	60	90	30	90	30	200	<10	20	10	20	-	-	-	-	-	40	40	30	<10	-	3,110	20	100	70	<10	-	-	20
Nitrite + Nitrate as N (NOx)	µg/L	10	15	<10	<10	120	10	<10	<10	<10	<10	30,600	20	20	30	<10	70	<10	20	110	60	-	-	-	-	-	60	6,360	7,140	11,600	-	17,000	21,600	11,100	65,100	<10	-	-	5,870
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	<100	100	<100	200	100	100	<100	<100	6,200	200	100	200	100	600	200	200	200	200	-	-	-	-	-	100	1,800	1,200	3,300	-	4,600	900	800	4,500	100	-	-	700
Nitrogen (Total)	µg/L	100	250	<100	100	100	200	100	100	<100	<100	36,800	200	100	200	100	700	200	200	300	300	-	-	-	-	-	200	8,200	8,300	14,900	-	21,600	22,500	11,900	69,600	100	-	-	6,600
Reactive Phosphorus	µg/L	1	15	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	-	-	-	-	<10	<10	<10	<10	-	<10	<10	20	10	30	-	-	<10
Phosphorus (Total)	µg/L	10	20	<10	<10	30	30	20	20	40	50	20	10	40	20	20	20	20	50	<10	20	-	-	-	-	-	<10	180	160	80	-	20	30	70	20	30	-	-	280
Inorganics																																							
Cyanide Total	µg/L	4	4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	-	-	-	-	-	<4	<4	<4	<4	-	58	<4	<4	<4	<4	-	-	<4
Hydrocarbons																																							
Oil and Grease	mg/L	1	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-	-	-	-	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	-	<1.0
Metals																																							
Aluminium (total)	µg/L	5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aluminium (dissolved)	µg/L	5	27	6	<5	5	30	6	6	5	6	9	<5	<5	24	25	38	41	39	18	36	-	-	-	-	-	6	<5	10	<5	-	14	11	13	10	8	-	-	26
Arsenic (total)	µg/L	0.2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	µg/L	0.2	0.8	0.6	0.2	0.5	0.4	0.6	0.5	0.5	0.6	0.2	<0.2	<0.2	<0.2	<0.2	0.4	<0.2	<0.2	<0.2	0.2	-	-	-	-	-	<0.2	1.3	16.3	3.9	-	2.4	2.1	2.5	3.4	0.5	-	-	0.6
Chromium (III+VI) (total)	µg/L	0.2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (III+VI) (dissolved)	µg/L	0.2	0.01	0.2	<0.2	<0.2	0.4	0.2	<0.2	0.2	<0.2	0.4	0.2	0.2	<0.2	<0.2	0.2	0.2	0.2	<0.2	<0.2	-	-	-	-	-	<0.2	1.5	15.7	4.0	-	11.9	6.0	8.0	2.2	<0.2	-	-	0.8
Copper (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	µg/L	0.5	1	<0.5	<0.5	<0.5	1.0	<0.5	<0.5	<0.5	<0.5	2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	14.5	1.7	2.0	-	1.1	1.0	0.7	0.8	<0.5	-	-	1.5
Iron (total)	µg/L	2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	µg/L	2	300	17	12	17	63	16	17	18	20	30	13	9	42	31	116	55	52	132	162	-	-	-	-	-	12	4	<2	2	-	<2	<2	<2	<2	7	-	-	79
Lead (total)	µg/L	0.1	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	µg/L	0.1	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	3.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	<0.1	<0.1	<0.1	0.1	-	<0.1	<0.1	<0.1	0.1	<0.1	-	-	0.3
Manganese (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	µg/L	0.5	1,200	0.7	3.3	1.4	2.3	0.7	0.9	1.2	2.0	194	2.5	1.0	3.0	1.6	9.2	4.3	4.1	59.2	4.6	-	-	-	-	-	68.2	118	<0.5	12.4	-	7.8	14.6	8.3	0.9	<0.5	-	-	30.8
Nickel (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	µg/L	0.5	8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	1.2	6.7	1.0	0.9	-	1.2	1.2	1.0	2.8	<0.5	-	-	1.3
Silver (total)	µg/L	0.01	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	µg/L	0.01	0.02	<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
Zinc (total)	µg/L	1	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	µg/L	1	2.4	<1	<1	<1	<1	<1	<1	<1	<1	8	<1	<1	<1	<1	<1	<1	<1	2	<1	-	-	-	-	-	<1	118	<1	<1	-	2	<1	1	<1	10	-	-	<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 99% of aquatic species ANZECC / ARMCANZ (2018), they are not pollutant limits imposed by EPL 21266.

\- Samples not required

Snowy Hydro 2.0 Main Works

Monthly EPL Sampling: 01-30 June 2025 - Discharge Water

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL 41	EPL 43	EPL 44	EPL 45	EPL 47	EPL 48	EPL 49	EPL 50
Flow Rate				15/06/2025							29/06/2025
Inflow[#]	ML/day	-	-	-	0.0000	0.2339	0.0643	0.2230	0.0793	0.2703	-
Outflow[#]	ML/day	-	4.32 (EPL 43 / 50)	-	-	-	-	-	-	-	-
Field											
pH	pH Unit	-	6.5-8.5	8.58	-	-	-	-	-	-	6.85
Electrical Conductivity	µS/cm	-	700 (EPL 41) / 200 (EPL 50)	4	-	-	-	-	-	-	51
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	216	-	-	-	-	-	-	313
Temperature	°C	-	15	12.49	-	-	-	-	-	-	7.86
Dissolved Oxygen	% saturation	-	No Water Quality Objective Value	97	-	-	-	-	-	-	68.2
Turbidity	NTU	-	<25	1.3	-	-	-	-	-	-	0
Laboratory analytes											
Total suspended solids	mg/L	5	5/10	<5	-	-	-	-	-	-	<5
Hardness as $CaCO_3$	mg/L	1	No Water Quality Objective Value	<1	-	-	-	-	-	-	<1
Nutrients											
Ammonia as N	µg/L	10	200/2000^	<10	-	-	-	-	-	-	50
Nitrite + Nitrate as N (NOx)	µg/L	10	10	90	-	-	-	-	-	-	<10
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	<100	-	-	-	-	-	-	400
Nitrogen (Total)	µg/L	100	350/-^	<100	-	-	-	-	-	-	400
Reactive Phosphorus	µg/L	1	No Water Quality Objective Value	<10	-	-	-	-	-	-	<10
Phosphorus (Total)	µg/L	10	100/300^	<10	-	-	-	-	-	-	<10
Inorganics											
Cyanide Total	µg/L	4	No Water Quality Objective Value	<4	-	-	-	-	-	-	26
Hydrocarbons											
Oil and Grease	mg/L	1	2/5^	<1.0	-	-	-	-	-	-	<1.0
Metals											
Aluminium (dissolved)	µg/L	5	55	<5	-	-	-	-	-	-	<5
Arsenic (dissolved)	µg/L	0.2	13	<0.2	-	-	-	-	-	-	<0.2
Chromium (III+VI) (dissolved)	µg/L	0.2	1	<0.2	-	-	-	-	-	-	0.8
Copper (dissolved)	µg/L	0.5	14	<0.5	-	-	-	-	-	-	<0.5
Iron (dissolved)	µg/L	2	300	<2	-	-	-	-	-	-	<2
Lead (dissolved)	µg/L	0.1	3.4	<0.1	-	-	-	-	-	-	<0.1
Manganese (dissolved)	µg/L	0.5	1,900	<0.5	-	-	-	-	-	-	<0.5
Nickel (dissolved)	µg/L	0.5	11	<0.5	-	-	-	-	-	-	<0.5
Silver (dissolved)	µg/L	0.01	0.05	<0.01	-	-	-	-	-	-	<0.01
Zinc (dissolved)	µg/L	1	8	<1	-	-	-	-	-	-	<1
Biological											
Faecal Coliforms	CFU/100mL	1	10/100^	<1	-	-	-	-	-	-	<1
Biological Oxygen Demand	mg/L	2	5	<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	EPL 43 *	EPL 50 ^	EPL 44	EPL 45	EPL 47	EPL 48	EPL 49
	Discharge volume (Megalitres)		Discharge volume (Megalitres)				
1/06/2025	-	-	0.29	0.04	0.23	0.04	0.75
2/06/2025	-	-	0.51	0.05	0.19	0.13	0.71
3/06/2025	-	-	0.42	0.05	0.17	0.09	0.69
4/06/2025	0.76	-	0.40	0.04	0.16	0.09	0.63
5/06/2025	-	-	0.20	0.02	0.20	0.06	0.09
6/06/2025	-	0.53	0.01	0.06	0.30	0.10	0.29
7/06/2025	-	0.08	0.67	0.06	0.17	0.10	0.73
8/06/2025	-	0.11	0.48	0.07	0.27	0.08	0.61
9/06/2025	-	0.31	0.41	0.06	0.23	0.07	0.48
10/06/2025	-	0.50	0.36	0.10	0.23	0.08	0.32
11/06/2025	1.32	-	0.12	0.07	0.25	0.08	0.63
12/06/2025	-	-	0.14	0.10	0.32	0.11	0.66
13/06/2025	-	0.39	0.13	0.03	0.10	0.04	0.31
14/06/2025	-	0.92	0.24	0.07	0.25	0.09	0.46
15/06/2025	-	0.18	0.03	0.06	0.21	0.07	0.16
16/06/2025	-	0.34	0.04	0.06	0.20	0.06	0.08
17/06/2025	-	0.26	0.04	0.07	0.23	0.08	0.11
18/06/2025	-	0.05	0.03	0.07	0.38	0.07	0.11
19/06/2025	1.65	0.08	0.02	0.07	0.06	0.07	0.03
20/06/2025	-	-	0.01	0.07	0.23	0.08	0.02
21/06/2025	-	0.35	0.04	0.08	0.24	0.08	0.09
22/06/2025	-	-	0.16	0.07	0.22	0.08	0.06
23/06/2025	-	0.52	0.29	0.11	0.21	0.05	0.01
24/06/2025	0.39	0.76	0.25	0.07	0.21	0.08	0.02
25/06/2025	-	0.66	0.39	0.08	0.23	0.08	0.03
26/06/2025	-	0.63	0.39	0.07	0.32	0.08	0.002
27/06/2025	0.59	1.00	0.20	0.07	0.18	0.08	0.001
28/06/2025	-	0.60	0.03	0.07	0.26	0.09	0.0004
29/06/2025	0.40	0.40	0.30	0.06	0.24	0.09	0.001
30/06/2025	0.23	0.89	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.

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

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL56	EPL57	EPL58	EPL68	EPL69	EPL70	EPL72	EPL80	EPL81	EPL82	EPL83	EPL87	EPL88	EPL89	EPL 90	EPL 91	EPL92	EPL93	EPL94	EPL95	EPL96	EPL97	EPL103	EPL104	EPL105	EPL113	EPL114	EPL115	EPL116	EPL117
Physiochemical				1/07/2025	1/07/2025	22/07/2025	5/07/2025	5/07/2025	26/07/2025	25/07/2025	27/07/2025	19/07/2025	27/07/2025	27/07/2025	19/07/2025	19/07/2025	27/07/2025	31/07/2025	22/07/202	22/07/202	31/07/2025	1/07/2025	1/07/2025	1/07/2025	1/07/2025	1/07/2025	5/07/2025	5/07/2025	5/07/2025	27/07/2025	27/07/2025	27/07/2025	18/07/2025	18/07/2025
pH	pH Unit	-	6.5-8	8.17	8.12	5.83	5.55	5.75	6.1	5.48	6.81	6.67	6.59	7.14	6.77	6.98	6.6	6.05	6.61	6.56	7.24	6.81	6.15	7.67	6.66	5.89	6.56	5.86	6.09	6.91	7.05	6.14	5.96
Electrical Conductivity	µS/cm	-	30-350	289	263	814	28	50	65.3	34.6	686	984	2264	399.3	644	863	226.6	135	190	50	240	171	803	2280	512	49	48	131	101	390	358	164	144
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	111	125	188	350	352	168.5	186.7	103	57	15.6	120.9	493	230	138.9	141	42	161	137	19	190	82	204	327	330	341	297	279	79	289	87
Temperature	°C	-	No Water Quality Objective Value	11.73	12.12	16.3	9.95	9.18	5.65	9.9	15	14.47	16	10.2	12.47	15.43	11.6	13.29	14.5	12.9	12.62	13.17	15.02	11.11	13	10.89	10.59	10.15	11.01	6.39	11.8	11.2	11.3
Dissolved Oxygen	% saturation	-	No Water Quality Objective Value	48.1	19.8	43	66.8	37	64.6	61.9	47.4	18.3	25.5	64.1	47	47.8	36.2	54.6	25.8	63	37.3	19.6	24.1	73.3	58.7	37.7	53.7	59.7	36.7	39.8	78.3	54.5	15.7
Turbidity	NTU	-	No Water Quality Objective Value	28.5	30.5	0.96	26.1	30.8	92.77	81.13	146	614	70.03	82.47	659	23.9	68.71	163	54	182	544	97.3	27.8	485	14.3	25.1	21.3	20.2	407	27.7	132	75	21.6
Laboratory analytes																																	
TSS	mg/L	5	No Water Quality Objective Value	7	8	<5	<5	15	35	20	14	541	136	14	113	23	57	163	16	1,490	4,300	158	32	728	18	13	6	<5	206	7	38	752	225
Hardness as CaCO3	mg/L	1	No Water Quality Objective Value	126	114	285	<1	13	20	17	336	393	1,180	116	48	110	47	27	84	27	113	67	250	859	144	2	9	40	24	190	168	66	45
Nutrients																																	
Ammonia as N	µg/L	10	13	30	10	<10	40	<10	10	20	20	90	100	<10	20	150	30	200	120	10	<10	40	<10	20	40	<10	20	30	<10	50	60	10	20
Nitrite + Nitrate as N (NOx)	µg/L	10	15	230	2,080	50,400	1,680	520	760	130	<10	40	<10	2,620	7,180	10	290	890	<10	40	20	<10	38,700	96,400	490	860	170	3,010	<10	20	<10	100	<10
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	200	300	3,000	200	100	100	<100	100	600	200	300	1,700	400	100	300	200	100	400	100	1,800	1,800	200	100	100	500	600	200	300	<100	<100
Nitrogen (Total)	µg/L	100	250	400	2,400	53,400	1,900	600	900	100	100	600	200	2,900	8,900	400	400	1,200	200	100	400	100	40,500	100,000	700	1,000	500	3,500	600	200	300	100	<100
Reactive Phosphorus	µg/L	1	15	<10	20	10	<10	<10	<10	20	<10	<10	<10	10	<10	<10	<10	<10	<10	<10	<10	<10	10	10	10	20	10	<10	<10	<10	<10	<10	<10
Phosphorus (Total)	µg/L	10	20	40	70	20	50	60	40	40	70	600	40	20	650	160	40	120	40	190	880	90	70	280	40	50	40	60	170	50	180	<10	300
Inorganics																																	
Cyanide Total	µg/L	4	4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Hydrocarbons																																	
Oil and Grease	mg/L	1	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Metals																																	
Aluminium (total)	µg/L	5	No Water Quality Objective Value	93	240	27	183	457	1,290	321	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aluminium (dissolved)	µg/L	5	27	<5	5	<5	<5	<5	<5	14	<5	<5	<5	<5	<5	<5	<5	7	6	6	7	<5	<5	<5	<5	<5	12	13	105	16	11	<5	<5
Arsenic (total)	µg/L	0.2	No Water Quality Objective Value	<0.2	3.1	<0.2	<0.2	0.2	<0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	µg/L	0.2	0.8	<0.2	3.0	<0.2	<0.2	<0.2	<0.2	<0.2	1.5	4.5	38.6	1.2	0.5	6.9	0.2	<0.2	2.9	0.6	1.0	1.6	0.9	0.3	0.3	<0.2	<0.2	<0.2	0.5	0.4	0.4	0.6	2.2
Chromium (III+VI) (total)	µg/L	0.2	No Water Quality Objective Value	0.4	0.6	<0.2	0.7	0.5	1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (III+VI) (dissolved)	µg/L	0.2	0.01	<0.2	<0.2	<0.2	<0.2	<0.2	0.3	<0.2	<0.2	0.2	0.4	5.8	2.4	<0.2	0.2	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	1.2	<0.2	<0.2	<0.2	0.2	0.3	0.5	<0.2	0.3	0.2
Copper (total)	µg/L	0.5	No Water Quality Objective Value	2.2	6.4	21.6	0.8	2.9	173	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	µg/L	0.5	1	<0.5	1.0	19.4	<0.5	1.2	58.6	3.0	1.4	2.5	<0.5	11.7	2.7	135	11.3	1.4	<0.5	<0.5	<0.5	<0.5	16.4	0.6	<0.5	3.0	0.7	8.4	327	17.8	<0.5	188	<0.5
Iron (total)	µg/L	2	No Water Quality Objective Value	121	285	26	127	323	890	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	µg/L	2	300	<2	<2	<2	3	3	<2	2	45	4	4,960	2	5	<2	44	<2	1,210	7	4	<2	<2	<2	<2	<2	13	<2	126	10	57	<2	7,340
Lead (total)	µg/L	0.1	No Water Quality Objective Value	0.6	0.7	3.2	<0.1	0.2	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	µg/L	0.1	1	<0.1	<0.1	2.5	<0.1	<0.1	0.2	0.5	<0.1	<0.1	0.1	0.2	<0.1	<0.1	<0.1	0.2	0.2	0.9	0.2	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	0.2	0.6	1.0	0.2	<0.1	<0.1
Manganese (total)	µg/L	0.5	No Water Quality Objective Value	14.4	118	9.5	8.8	12.4	17.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	µg/L	0.5	1,200	7.8	98.8	11.4	4.8	0.9	1.9	6.8	237	334	432	4.3	28.5	123	28.0	3.1	931	63.2	3.4	496	867	0.7	669	2.8	3.9	51.8	25.6	133	304	40.7	572
Nickel (total)	µg/L	0.5	No Water Quality Objective Value	<0.5	1.2	4.4	1.0	0.8	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	µg/L	0.5	8	<0.5	<0.5	4.3	0.8	<0.5	1.3	2.0	22.7	2.9	0.8	2.3	28.5	11.8	2.2	2.7	2.4	2.3	<0.5	1.3	19.4	1.2	4.0	<0.5	<0.5	6.3	0.7	4.0	0.6	5.5	4.3
Silver (total)	µg/L	0.01	No Water Quality Objective Value	-	-	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	µg/L	0.01	0.02	<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	0.05	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc (total)	µg/L	1	No Water Quality Objective Value	6	5	11	4	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	µg/L	1	2.4	2	<1	10	3	2	4	9	8	2	6	2	<1	26	1	10	1	11	2	4	43	<1	83	<1	2	25	6	28	<1	12	2

* 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 95% of aquatic species ANZECC / ARMCANZ (2000). they are not pollutant limits imposed by EPL 21266.
- Sample not required at this location.

snowy 2.0

future generation | webuild | clough | lane

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*	EPL10	EPL11	EPL28	EPL29	EPL32	EPL38	EPL39	EPL40	EPL46	EPL51	EPL107	EPL108	EPL109
Field				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
pH	pH Unit	-	6.5-8	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
Electrical Conductivity	µS/cm	-	20-30	37	30	11.4	17.9	18	29	13	10.7	18.7	18.2	21	21	21
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	116	133	113	173.1	171	285	299	177.6	118	144	169	175	166
Temperature	°C	-	No Water Quality Objective Value	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
Dissolved Oxygen	% saturation	-	90-110	93.3	115.5	83.9	86.9	86.6	64	69.4	85.5	85.9	86.5	92.1	91	91.5
Turbidity	NTU	-	1-20	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
Laboratory analytes																
Total suspended solids	mg/L	5	No Water Quality Objective Value	<5	<5	<5	<5	<5	14	<5	<5	<5	<5	<5	<5	<5
Hardness as $CaCO_3$	mg/L	1	No Water Quality Objective Value	12	12	2	5	5	5	<1	2	5	5	5	5	5
Nutrients																
Ammonia as N	µg/L	10	10	<10	<10	30	110	90	120	<10	<10	160	120	50	10	<10
Nitrite + Nitrate as N (NOx)	µg/L	10	10	50	30	30	60	60	80	30	20	60	60	30	30	30
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	200	200	100	300	300	400	200	<100	400	300	200	100	200
Nitrogen (Total)	µg/L	100	350	200	200	100	400	400	500	200	<100	500	400	200	100	200
Reactive Phosphorus	µg/L	1	5	<10	<10	<10	<10	<10	10	10	<10	<10	<10	<10	<10	<10
Phosphorus (Total)	µg/L	10	10	<10	20	10	<10	<10	50	40	<10	30	30	<10	<10	20
Inorganics																
Cyanide Total	µg/L	4	7	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Hydrocarbons																
Oil and Grease	mg/L	1	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Metals																
Aluminium (dissolved)	µg/L	5	55	12	11	49	58	62	45	41	24	56	60	<5	<5	7
Arsenic (dissolved)	µg/L	0.2	13	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
Chromium (III+VI) (dissolved)	µg/L	0.2	1	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
Copper (dissolved)	µg/L	0.5	14	<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
Iron (dissolved)	µg/L	2	300	17	12	60	130	130	119	40	24	128	131	6	4	4
Lead (dissolved)	µg/L	0.1	3.4	<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
Manganese (dissolved)	µg/L	0.5	1,900	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
Nickel (dissolved)	µg/L	0.5	11	<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
Silver (dissolved)	µg/L	0.01	0.05	<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
Zinc (dissolved)	µg/L	1	8	2	<1	<1	<1	<1	3	2	<1	<1	<1	<1	<1	<1
Biological																
Faecal Coliforms	CFU/100mL	1	10/100^	6	2	<1	-	-	-	-	-	-	<1	-	-	-
Biochemical Oxygen Demand	mg/L	2	1/5^	<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 feacal 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 July 2025 - Surface Water

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL5	EPL6	EPL8	EPL9	EPL12	EPL14	EPL15	EPL16	EPL24	EPL26	EPL27	EPL30
Field				15/07/2025	15/07/2025	15/07/2025	15/07/2025	15/07/2025	15/07/2025	15/07/2025	15/07/2025	8/07/2025	25/07/2025	25/07/2025	5/07/2025
pH	-	-	6.5-8	8.5	8.3	7.8	8	8.5	8.2	7.9	7.9	7.6	7.17	7.05	7.28
Electrical Conductivity	µS/cm	-	30-350	90	47	131	63	60	56	59	65	625.00	16.4	14.7	25
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	223	253	278	258	241	266	268	270	189	164.7	170.5	271
Temperature	°C	-	No Water Quality Objective Value	9.51	7.32	6.86	7.34	7.78	6.87	6.81	7.1	10.3	6.2	5.5	5.19
Dissolved Oxygen	% saturation	-	90-110	86.5	82.3	82.3	83.1	106.2	74.7	75.6	70.5	103.3	86.3	83.6	71.7
Turbidity	NTU	-	2-25	16.7	19.8	16.7	15.2	19.3	12.1	11.2	10.7	9.2	50.15	0.59	5.7
Laboratory analytes															
TSS	mg/L	5	No Water Quality Objective Value	<5	<5	7	<5	<5	<5	<5	<5	<5	<5	<5	5
Hardness as CaCO3	mg/L	1	No Water Quality Objective Value	24	17	38	24	24	22	24	24	126	5	5	2
Nutrients															
Ammonia as N	µg/L	10	13	20	20	<10	<10	20	10	20	<10	20	20	10	30
Nitrite + Nitrate as N (NOx)	µg/L	10	15	10	20	40	20	20	<10	20	30	19,300	30	10	70
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	200	<100	100	200	100	200	100	200	4,600	100	<100	200
Nitrogen (Total)	µg/L	100	250	200	<100	100	200	100	200	100	200	23,900	100	<100	300
Reactive Phosphorus	µg/L	1	15	<10	<10	<10	<10	<10	<10	<10	<10	10	<10	<10	10
Phosphorus (Total)	µg/L	10	20	20	<10	20	30	40	20	<10	80	10	20	20	20
Inorganics															
Cyanide Total	µg/L	4	4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Hydrocarbons															
Oil and Grease	mg/L	1	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Metals															
Aluminium (total)	µg/L	5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-
Aluminium (dissolved)	µg/L	5	27	41	11	26	36	46	38	39	38	14	17	16	29
Arsenic (total)	µg/L	0.2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	µg/L	0.2	0.8	0.2	<0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	<0.2	<0.2	<0.2
Chromium (III+VI) (total)	µg/L	0.2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (III+VI) (dissolved)	µg/L	0.2	0.01	0.2	<0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.5	0.2	0.2	<0.2
Copper (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	µg/L	0.5	1	<0.5	<0.5	0.7	<0.5	1.1	<0.5	1.7	<0.5	1.2	<0.5	<0.5	<0.5
Iron (total)	µg/L	2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	µg/L	2	300	51	16	36	46	56	46	48	47	51	16	15	30
Lead (total)	µg/L	0.1	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	µg/L	0.1	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.2	<0.1	0.2	<0.1
Manganese (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	µg/L	0.5	1,200	1.5	1.0	1.4	2.2	1.2	1.3	1.2	1.6	61.9	1.5	1.0	1.8
Nickel (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	µg/L	0.5	8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	<0.5	<0.5	<0.5
Silver (total)	µg/L	0.01	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	µg/L	0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc (total)	µg/L	1	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	µg/L	1	2.4	<1	<1	<1	<1	<1	<1	<1	<1	4	<1	<1	2

Analyte	EPL31	EPL33	EPL34	EPL35	EPL36	EPL37	EPL52	EPL53	EPL54	EPL55	EPL67
Field	5/07/2025	5/07/2025	5/07/2025	5/07/2025	29/07/2025	29/07/2025	22/07/2025	Dry	Dry	22/07/2025	Dry
pH	7.28	7.17	8.12	7.37	6.75	7.07	7.38	-	-	7.28	-
Electrical Conductivity	18	31	12	11.0	34	39	880.00	-	-	851	-
Oxidation Reduction Potential	295	301	231	300	177	180	129	-	-	149	-
Temperature	4.57	3.78	3.6	2.93	8.08	8.14	10.5	-	-	10.5	-
Dissolved Oxygen	64.5	61.7	67.1	62.2	79.3	61	100.9	-	-	87.6	-
Turbidity	16.0	10.1	3.9	3.9	22.0	25	57	-	-	1.28	-
Laboratory analytes											
TSS	<5	<5	<5	<5	6	8	<5	-	-	<5	-
Hardness as CaCO3	<1	5	<1	<1	7	7	380	-	-	344	-
Nutrients											
Ammonia as N	<10	180	20	20	<10	10	10	-	-	<10	-
Nitrite + Nitrate as N (NOx)	80	120	50	40	30	60	62,100	-	-	55,300	-
Kjeldahl Nitrogen Total	200	500	200	200	600	600	2,600	-	-	3,600	-
Nitrogen (Total)	300	600	200	200	600	700	64,700	-	-	58,900	-
Reactive Phosphorus	10	<10	<10	<10	<10	<10	20	-	-	<10	-
Phosphorus (Total)	<10	<10	30	<10	30	60	10	-	-	20	-
Inorganics											
Cyanide Total	<4	<4	<4	<4	<4	<4	<4	-	-	<4	-
Hydrocarbons											
Oil and Grease	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-	<1.0	-
Metals											
Aluminium (total)	-	-	-	-	-	-	109	-	-	26	-
Aluminium (dissolved)	29	42	39	40	372	344	<5	-	-	<5	-
Arsenic (total)	-	-	-	-	-	-	0.7	-	-	0.3	-
Arsenic (dissolved)	<0.2	0.3	<0.2	<0.2	0.5	0.5	0.6	-	-	0.3	-
Chromium (III+VI) (total)	-	-	-	-	-	-	0.5	-	-	0.6	-
Chromium (III+VI) (dissolved)	<0.2	<0.2	<0.2	<0.2	0.8	0.7	0.4	-	-	0.5	-
Copper (total)	-	-	-	-	-	-	0.6	-	-	<0.5	-
Copper (dissolved)	<0.5	<0.5	<0.5	<0.5	1.0	1.0	<0.5	-	-	<0.5	-
Iron (total)	-	-	-	-	-	-	124	-	-	29	-
Iron (dissolved)	27	129	40	41	377	344	<2	-	-	<2	-
Lead (total)	-	-	-	-	-	-	0.6	-	-	0.3	-
Lead (dissolved)	<0.1	<0.1	<0.1	<0.1	0.1	0.1	<0.1	-	-	0.2	-
Manganese (total)	-	-	-	-	-	-	34.9	-	-	1.9	-
Manganese (dissolved)	1.4	18.8	5.2	5.4	34.6	18.0	32.2	-	-	1.5	-
Nickel (total)	-	-	-	-	-	-	3.7	-	-	1.0	-
Nickel (dissolved)	<0.5	<0.5	<0.5	<0.5	1.3	1.4	3.2	-	-	1.0	-
Silver (total)	-	-	-	-	-	-	<0.01	-	-	<0.01	-
Silver (dissolved)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.01	-
Zinc (total)	-	-	-	-	-	-	18	-	-	2	-
Zinc (dissolved)	1	2	2	16	4	3	16	-	-	2	-

Analyte	EPL71	EPL84	EPL85	EPL86	EPL98	EPL99	EPL100	EPL101	EPL106	EPL110	EPL118	EPL120	EPL122
Field	25/07/2025	19/07/2025	19/07/2025	19/07/2025	31/07/2025	25/07/2025	Dry	Dry	4/07/2025	9/07/2025	9/07/2025	Dry	22/07/2025
pH	7.11	7.67	6.95	7.99	6.5	8.68	-	-	8.8	7.1	7.21	-	7.91
Electrical Conductivity	86.1	396.00	491	1,090.00	138	435.3	-	-	1,650.00	58	194	-	515
Oxidation Reduction Potential	96.9	197	244	217	127	169.2	-	-	193	219	159	-	151
Temperature	5.3	8.22	8.46	8.79	14.07	6.2	-	-	10.13	8.77	12.6	-	9.3
Dissolved Oxygen	82.8	101.3	65.3	73.7	61.8	87.8	-	-	89.4	100.6	74.6	-	94
Turbidity	84.44	248	83.00	30.5	17.8	97.39	-	-	28.8	2.5	474	-	60
Laboratory analytes													
TSS	12	82	18	6	<5	36	-	-	12	<5	288	-	<5
Hardness as CaCO3	34	51	93	291	443	197	-	-	451	17	32	-	132
Nutrients													
Ammonia as N	20	30	70	40	<10	860	-	-	80	20	50	-	10
Nitrite + Nitrate as N (NOx)	510	1,550	3,380	15,400	60,200	17,700	-	-	56,800	<10	1,340	-	25,400
Kjeldahl Nitrogen Total	100	1,300	300	1,600	6,000	2,400	-	-	5,700	<100	<2,000	-	2,700
Nitrogen (Total)	600	2,800	3,700	17,000	66,200	20,100	-	-	62,500	<100	<2,000	-	28,100
Reactive Phosphorus	<10	<10	<10	<10	<10	<10	-	-	<10	10	<10	-	<10
Phosphorus (Total)	50	140	40	20	<10	30	-	-	50	<10	<200	-	20
Inorganics													
Cyanide Total	<4	<4	<4	<4	<4	<4	-	-	<4	<4	<4	-	<4
Hydrocarbons													
Oil and Grease	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-	<1.0	<1.0	<1.0	-	<1.0
Metals													
Aluminium (total)	-	-	-	-	-	-	-	-	-	-	-	-	-
Aluminium (dissolved)	7	12	<5	12	<5	21	-	-	<5	18	13	-	8
Arsenic (total)	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	<0.2	1.1	0.9	1.9	0.2	2.8	-	-	3.5	0.6	1.0	-	<0.2
Chromium (III+VI) (total)	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (III+VI) (dissolved)	0.2	2.4	0.9	1.9	0.4	7.2	-	-	5.0	<1	<0.2	-	0.6
Copper (total)	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	<0.5	1.7	1.1	2.5	0.5	<0.5	-	-	0.7	<0.2	<0.5	-	<0.5
Iron (total)	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	41	9	<2	<2	2	4	-	-	<2	15	48	-	9
Lead (total)	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	0.2	<0.1	<0.1	<0.1	0.2	0.2	-	-	<0.1	<0.1	<0.1	-	<0.1
Manganese (total)	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	63.0	55.2	217	70.3	7.8	25.8	-	-	3.5	<0.5	73.9	-	23.3
Nickel (total)	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	1.5	1.8	4.8	1.8	2.7	0.5	-	-	3.2	<0.5	0.7	-	2.2
Silver (total)	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01	-	<0.01
Zinc (total)	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	1	<1	2	<1	26	2	-	-	<1	30	<1	-	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

Snowy Hydro 2.0 Main Works

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

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL 41	EPL 43	EPL 44	EPL 45	EPL 47	EPL 48	EPL 49	EPL 50
Flow Rate				**6/07/2025**							**20/07/2025**
Inflow[#]	ML/day	-	-	-	0.0000	0.3320	0.0647	0.2330	0.0817	0.0271	-
Outflow[#]	ML/day	-	4.32 (EPL 43 / 50)	-	-	-	-	-	-	-	-
Field											
pH	pH Unit	-	6.5-8.5	7.55	-	-	-	-	-	-	7.31
Electrical Conductivity	µS/cm	-	700 (EPL 41) / 200 (EPL 50)	7	-	-	-	-	-	-	47.7
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	221	-	-	-	-	-	-	115.6
Temperature	°C	-	15	12.87	-	-	-	-	-	-	6.4
Dissolved Oxygen	% saturation	-	No Water Quality Objective Value	70.8	-	-	-	-	-	-	87.3
Turbidity	NTU	-	<25	0.09	-	-	-	-	-	-	0.14
Laboratory analytes											
Total suspended solids	mg/L	5	5/10	<5	-	-	-	-	-	-	<5
Hardness as $CaCO_3$	mg/L	1	No Water Quality Objective Value	<1	-	-	-	-	-	-	<1
Nutrients											
Ammonia as N	µg/L	10	200/2000^	20	-	-	-	-	-	-	20
Nitrite + Nitrate as N (NOx)	µg/L	10	10	60	-	-	-	-	-	-	<10
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	<100	-	-	-	-	-	-	<100
Nitrogen (Total)	µg/L	100	350/-^	<100	-	-	-	-	-	-	<100
Reactive Phosphorus	µg/L	1	No Water Quality Objective Value	<10	-	-	-	-	-	-	<10
Phosphorus (Total)	µg/L	10	100/300^	<10	-	-	-	-	-	-	<10
Inorganics											
Cyanide Total	µg/L	4	No Water Quality Objective Value	<4	-	-	-	-	-	-	<4
Hydrocarbons											
Oil and Grease	mg/L	1	2/5^	<1.0	-	-	-	-	-	-	<1.0
Metals											
Aluminium (dissolved)	µg/L	5	55	<5	-	-	-	-	-	-	<5
Arsenic (dissolved)	µg/L	0.2	13	<0.2	-	-	-	-	-	-	<0.2
Chromium (III+VI) (dissolved)	µg/L	0.2	1	<0.2	-	-	-	-	-	-	0.7
Copper (dissolved)	µg/L	0.5	14	<0.5	-	-	-	-	-	-	<0.5
Iron (dissolved)	µg/L	2	300	<2	-	-	-	-	-	-	<2
Lead (dissolved)	µg/L	0.1	3.4	<0.1	-	-	-	-	-	-	<0.1
Manganese (dissolved)	µg/L	0.5	1,900	<0.5	-	-	-	-	-	-	<0.5
Nickel (dissolved)	µg/L	0.5	11	<0.5	-	-	-	-	-	-	<0.5
Silver (dissolved)	µg/L	0.01	0.05	<0.01	-	-	-	-	-	-	<0.01
Zinc (dissolved)	µg/L	1	8	<1	-	-	-	-	-	-	<1
Biological											
Faecal Coliforms	CFU/100mL	1	10/100^	<1	-	-	-	-	-	-	<1
Biological Oxygen Demand	mg/L	2	5	<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: 01-31 July 2025 - Volumes

Date	EPL 43 *	EPL 50 ^	EPL 44	EPL 45	EPL 47	EPL 48	EPL 49
	Discharge volume (Megalitres)		Discharge volume (Megalitres)				
1/07/2025	0.34	-	0.01	0.06	0.23	0.07	0.002
2/07/2025	-	-	0.01	0.06	0.18	0.01	0.002
3/07/2025	0.87	0.62	0.01	0.06	0.16	0.01	0.002
4/07/2025	-	0.72	0.61	0.06	0.15	0.01	0.002
5/07/2025	-	0.68	0.14	0.04	0.26	0.30	0.03
6/07/2025	-	0.30	0.30	0.06	0.26	0.08	0.03
7/07/2025	2.11	0.92	0.41	0.06	0.20	0.14	0.05
8/07/2025	-	-	0.35	0.06	0.28	0.07	0.01
9/07/2025	-	-	0.28	0.07	0.22	0.06	0.003
10/07/2025	0.57	-	0.57	0.10	0.24	0.03	0.02
11/07/2025	0.32	-	0.15	0.05	0.22	0.10	0.23
12/07/2025	0.67	-	0.24	0.06	0.27	0.06	0.001
13/07/2025	0.70	-	0.60	0.02	0.27	0.08	0.002
14/07/2025	0.37	0.87	0.26	0.05	0.13	0.07	0.004
15/07/2025	-	0.46	0.38	0.05	0.19	0.08	0.01
16/07/2025	-	0.58	0.34	0.05	0.19	0.08	0.03
17/07/2025	0.44	0.81	0.43	0.06	0.24	0.08	0.02
18/07/2025	-	0.55	0.24	0.06	0.37	0.09	0.01
19/07/2025	-	-	0.58	0.07	0.10	0.08	0.03
20/07/2025	0.58	0.20	0.47	0.08	0.26	0.08	0.004
21/07/2025	-	0.10	0.34	0.06	0.25	0.07	0.02
22/07/2025	0.83	0.16	0.53	0.09	0.24	0.08	0.16
23/07/2025	0.46	0.84	0.43	0.12	0.24	0.07	0.08
24/07/2025	0.99	0.50	0.23	0.07	0.26	0.09	0.03
25/07/2025	-	0.53	0.52	0.09	0.26	0.13	0.004
26/07/2025	-	0.73	0.01	0.07	0.34	0.03	0.019
27/07/2025	-	0.93	0.39	0.08	0.19	0.14	0.004
28/07/2025	1.00	1.17	0.26	0.07	0.26	0.08	0.006
29/07/2025	-	1.13	0.40	0.08	0.22	0.09	0.007
30/07/2025	1.02	0.76	0.48	0.09	0.31	0.09	0.002
31/07/2025	-	0.44	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.

Snowy Hydro 2.0 Main Works

Monthly EPL Sampling: 01-31 August 2025 - Groundwater

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL1	EPL2	EPL4	EPL25	EPL56	EPL57	EPL58	EPL68	EPL69	EPL70	EPL72	EPL80	EPL81	EPL82	EPL83
Physiochemical				21/08/2025	-	-	-	5/08/2025	5/08/2025	5/08/2025	16/08/2025	16/08/2025	16/08/2025	22/08/2025	2/08/2025	9/08/2025	9/08/2025	9/08/2025
pH	pH Unit	-	6.5-8	7.44	-	-	-	7.25	8.09	5.84	6.14	6.15	6.75	6.7	7.42	6.87	6.69	6.88
Electrical Conductivity	µS/cm	-	30-350	506	-	-	-	248	259	845	28	49	104	57	835	1010	2790	602
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	191	-	-	-	112	76	201	297	311	259	268	130	179	75	188
Temperature	°C	-	No Water Quality Objective Value	15.93	-	-	-	13.05	13.38	16.49	10.32	8.78	9.82	8.82	13.84	13.27	16.24	13.93
Dissolved Oxygen	% saturation	-	No Water Quality Objective Value	35.4	-	-	-	96.7	96.1	92.9	57.8	28.9	69.8	44.4	32.1	13.8	22.3	32.2
Turbidity	NTU	-	No Water Quality Objective Value	41.4	-	-	-	20.1	115	4.6	8.2	20.6	61.8	9.8	118	385	49.5	64.1
Laboratory analytes																		
TSS	mg/L	5	No Water Quality Objective Value	29	-	-	-	5	59	<5	<5	<5	<5	44	40	398	90	30
Hardness as CaCO3	mg/L	1	No Water Quality Objective Value	119	-	-	-	129	119	254	<1	16	20	13	365	462	1,180	105
Nutrients																		
Ammonia as N	µg/L	10	13	<10	-	-	-	20	20	<10	10	10	20	<10	10	70	90	40
Nitrite + Nitrate as N (NOx)	µg/L	10	15	2.930	-	-	-	380	1.100	41.900	1.510	200	1.020	100	<10	100	<10	1.340
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	300	-	-	-	100	100	2.000	300	<100	100	200	100	300	100	500
Nitrogen (Total)	µg/L	100	250	3.200	-	-	-	500	1.200	43.900	1.800	200	1.100	300	100	400	100	1.800
Reactive Phosphorus	µg/L	1	15	<10	-	-	-	<10	20	10	<10	<10	<10	20	<10	<10	<10	10
Phosphorus (Total)	µg/L	10	20	50	-	-	-	30	100	<10	50	30	40	50	100	560	50	40
Inorganics																		
Cyanide Total	µg/L	4	4	-	-	-	-	<4	<4	9	<4	<4	<4	<4	<4	<4	<4	<4
Hydrocarbons																		
Oil and Grease	mg/L	1	5	-	-	-	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Metals																		
Aluminium (total)	µg/L	5	No Water Quality Objective Value	-	-	-	-	370	1.630	16	97	105	515	791	-	-	-	-
Aluminium (dissolved)	µg/L	5	27	<5	-	-	-	<5	<5	<5	<5	<5	<5	6	<5	<5	<5	<5
Arsenic (total)	µg/L	0.2	No Water Quality Objective Value	-	-	-	-	0.3	4.6	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-
Arsenic (dissolved)	µg/L	0.2	0.8	0.7	-	-	-	<0.2	2.7	<0.2	<0.2	<0.2	<0.2	<0.2	6.0	0.9	15.6	1.4
Chromium (III+VI) (total)	µg/L	0.2	No Water Quality Objective Value	-	-	-	-	1.3	4.9	0.9	0.3	0.2	0.5	-	-	-	-	-
Chromium (III+VI) (dissolved)	µg/L	0.2	0.01	<0.2	-	-	-	<0.2	<0.2	0.3	0.4	<0.2	0.4	<0.2	<0.2	<0.2	<0.2	0.7
Copper (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	21.2	71.3	20.2	<0.5	0.9	98.0	-	-	-	-	-
Copper (dissolved)	µg/L	0.5	1	123	-	-	-	<0.5	1.3	6.5	<0.5	<0.5	50.8	74.4	<0.5	1.2	<0.5	53.7
Iron (total)	µg/L	2	No Water Quality Objective Value	-	-	-	-	501	2.110	20	68	90	306	-	-	-	-	-
Iron (dissolved)	µg/L	2	300	<2	-	-	-	<2	<2	<2	4	<2	<2	<2	243	8	2.110	<2
Lead (total)	µg/L	0.1	No Water Quality Objective Value	-	-	-	-	2.7	6.6	3.0	<0.1	<0.1	0.2	-	-	-	-	-
Lead (dissolved)	µg/L	0.1	1	<0.1	-	-	-	<0.1	<0.1	0.6	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1
Manganese (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	45.9	233	8.8	5.1	4.0	7.7	-	-	-	-	-
Manganese (dissolved)	µg/L	0.5	1.200	122	-	-	-	7.2	97.5	7.8	3.5	1.7	1.8	7.3	228	263	379	32.5
Nickel (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	1.4	7.6	4.7	1.1	<0.5	1.0	-	-	-	-	-
Nickel (dissolved)	µg/L	0.5	8	3.1	-	-	-	<0.5	<0.5	3.7	0.7	0.6	0.6	2.2	21.4	3.2	0.7	9.9
Silver (total)	µg/L	0.01	No Water Quality Objective Value	-	-	-	-	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-
Silver (dissolved)	µg/L	0.01	0.02	<0.01	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc (total)	µg/L	1	No Water Quality Objective Value	-	-	-	-	12	20	12	3	2	3	-	-	-	-	-
Zinc (dissolved)	µg/L	1	2.4	4	-	-	-	2	<1	8	3	1	2	11	6	1	2	5

Analyte	EPL87	EPL88	EPL89	EPL 90	EPL 91	EPL92	EPL93	EPL94	EPL95	EPL96	EPL97	EPL103	EPL104	EPL105	EPL113	EPL114	EPL115	EPL116	EPL117
Physiochemical	9/08/2025	16/08/2025	2/08/2025	5/08/2025	5/08/2025	5/08/2025	5/08/2025	5/08/2025	5/08/2025	5/08/2025	5/08/2025	9/08/2025	16/08/2025	9/08/2025	1/08/2025	15/08/2025	1/08/2025	2/08/2025	2/08/2025
pH	6.57	7.08	7.64	5.91	6.64	6.59	7.15	6.92	6.04	7.83	6.54	6.7	6.49	6.04	6.1	7.29	7.4	6.6	6.5
Electrical Conductivity	783	916	284	152	243	145	242	172	761	1960	521	117	54	222	80	390	348	149	145
Oxidation Reduction Potential	59	177	247	160	66	152	148	108	187	107	188	222	302	275	296	70	254	292	62
Temperature	11.93	14.27	12.35	13.47	14	13.3	14.06	13.82	15.84	14.24	14.92	9.69	8.2	9.17	11.5	13.08	12.48	12.12	12.22
Dissolved Oxygen	69	59.4	43.1	65.8	25.2	47.2	34.9	37	38.4	60.3	94.7	55.2	42.8	86.1	32.1	98.4	16.6	60.1	31.5
Turbidity	1000	17.2	91.3	126	25.7	106	594	135	7.3	439	67.3	113	467	12.6	316	18.7	18.7	66	26.1
Laboratory analytes																			
TSS	214	<5	102	274	12	627	322	72	<5	305	46	7	160	<5	98	<5	22	386	186
Hardness as CaCO3	133	159	50	27	113	40	117	76	243	715	155	2	13	53	24	185	170	50	39
Nutrients																			
Ammonia as N	20	60	<10	<10	80	<10	40	<10	<10	<10	<10	<10	<10	<10	<10	20	<10	<10	20
Nitrite + Nitrate as N (NOx)	10.600	<10	370	1.030	<10	30	<10	<10	36.600	72.400	400	800	410	3.800	20	30	<10	60	<10
Kjeldahl Nitrogen Total	1.300	100	300	<100	100	<100	200	100	2.800	5.400	<100	<100	100	400	<500	<100	<100	<1.000	<100
Nitrogen (Total)	11.900	100	700	1.000	100	<100	200	100	39.400	77.800	400	800	500	4.200	<500	<100	<100	<1.000	<100
Reactive Phosphorus	<10	10	<10	10	10	10	10	<10	10	10	10	10	<10	<10	<10	<10	<10	<10	<10
Phosphorus (Total)	540	60	80	60	60	80	210	50	40	80	40	30	100	30	100	<10	30	<200	290
Inorganics																			
Cyanide Total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Hydrocarbons																			
Oil and Grease	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Metals																			
Aluminium (total)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aluminium (dissolved)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	19	96	<5	<5	94	<5
Arsenic (total)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	<0.2	14.4	0.2	<0.2	2.6	0.3	0.8	0.4	1.2	0.2	<0.2	<0.2	<0.2	<0.2	0.4	0.5	0.3	0.6	2.3
Chromium (III+VI) (total)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (III+VI) (dissolved)	2.4	<0.2	<0.2	0.3	<0.2	<0.2	<0.2	<0.2	<0.2	1.4	<0.2	<0.2	0.6	0.2	0.2	0.5	<0.2	0.2	<0.2
Copper (total)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	3.1	15.1	25.8	0.6	<0.5	<0.5	<0.5		18.0	<0.5	<0.5	15.2	0.6	3.7	114	1.1	<0.5	113	<0.5
Iron (total)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	2	6	21	3	1.150	<2	<2	3	<2	7	164	<2	4	<2	114	<2	22	44	6.140
Lead (total)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	<0.1	<0.1	0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	<0.1	0.1	0.5	0.1
Manganese (total)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	51.4	267	19.9	4.4	861	62.1	58.7	414	389	0.9	664	1.7	7.5	48.3	21.2	12.6	273	47.7	521
Nickel (total)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	130	3.8	2.0	2.2	1.6	1.7	0.7	1.2	13.0	0.5	4.2	<0.5	<0.5	7.4	<0.5	1.9	0.6	4.0	4.6
Silver (total)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	<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	0.11	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc (total)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	<1	2	1	8	<1	6	2	6	39	<1	73	1	1	30	27	12	<1	12	1

* 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 EPL 21266.

\- Sample not required at this location.

snowy 2.0

future generation | webuild | clough | lane

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*	EPL10	EPL11	EPL28	EPL29	EPL32	EPL38	EPL39	EPL40	EPL46	EPL51	EPL107	EPL108	EPL109
Field				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
pH	pH Unit	-	6.5-8	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
Electrical Conductivity	µS/cm	-	20-30	50	41	22	21	22	20	19	16	23	22	70	44	36
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	227	207	205	239	239	233	233	222	243	239	141	175	192
Temperature	°C	-	No Water Quality Objective Value	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
Dissolved Oxygen	% saturation	-	90-110	61	66.3	92.9	91.4	72.5	68.1	86.2	77.2	86.1	91.3	83.2	74.9	72
Turbidity	NTU	-	1-20	2.7	0.3	12.8	7.2	6.1	6.8	3.7	4.9	6.3	7	17.9	6	6.7
Laboratory analytes																
Total suspended solids	mg/L	5	No Water Quality Objective Value	<5	<5	<5	<5	<5	<5	<5	<5	7	<5	<5	<5	<5
Hardness as $CaCO_3$	mg/L	1	No Water Quality Objective Value	19	14	2	2	2	2	<1	<1	2	2	12	12	12
Nutrients																
Ammonia as N	µg/L	10	10	30	<10	20	30	30	20	<10	<10	30	30	<10	<10	<10
Nitrite + Nitrate as N (NOx)	µg/L	10	10	50	50	40	40	50	40	10	10	40	40	40	40	40
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	200	<100	200	200	300	200	200	100	200	200	100	<100	<100
Nitrogen (Total)	µg/L	100	350	200	<100	200	200	400	200	200	100	200	200	100	<100	<100
Reactive Phosphorus	µg/L	1	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Phosphorus (Total)	µg/L	10	10	10	20	<10	<10	<10	10	40	<10	10	20	<10	<10	<10
Inorganics																
Cyanide Total	µg/L	4	7	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Hydrocarbons																
Oil and Grease	mg/L	1	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Metals																
Aluminium (dissolved)	µg/L	5	55	10	9	50	54	55	50	40	27	52	55	8	7	6
Arsenic (dissolved)	µg/L	0.2	13	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
Chromium (III+VI) (dissolved)	µg/L	0.2	1	<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
Copper (dissolved)	µg/L	0.5	14	<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
Iron (dissolved)	µg/L	2	300	50	15	63	69	81	71	25	30	84	83	11	10	8
Lead (dissolved)	µg/L	0.1	3.4	<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
Manganese (dissolved)	µg/L	0.5	1,900	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
Nickel (dissolved)	µg/L	0.5	11	<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
Silver (dissolved)	µg/L	0.01	0.05	<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
Zinc (dissolved)	µg/L	1	8	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Biological																
Faecal Coliforms	CFU/100mL	1	10/100^	2	2	<1	-	-	-	-	-	-	23	-	-	-
Biochemical Oxygen Demand	mg/L	2	1/5^	<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 feacal 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 - Surface Water

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL5	EPL6	EPL8	EPL9	EPL12	EPL14	EPL15	EPL16	EPL24	EPL26	EPL27	EPL30	EPL31	EPL33	EPL34	EPL35	EPL36	EPL37	EPL52	EPL53	EPL54	EPL55	EPL67	EPL71	EPL84	EPL85	EPL86	EPL98	EPL99	EPL100	EPL101	EPL106	EPL110	EPL118	EPL120	EPL122
Field				4/08/2025	4/08/2025	5/08/2025	5/08/2025	4/08/2025	5/08/2025	5/08/2025	5/08/2025	5/08/2025	1/08/2025	1/08/2025	2/08/2025	2/08/2025	2/08/2025	2/08/2025	2/08/2025	22/08/2025	22/08/2025	5/08/2025	Dry	Dry	5/08/2025	Dry	1/08/2025	6/08/2025	7/08/2025	7/08/2025	5/08/2025	1/08/2025	Dry	Dry	15/08/2025	22/08/2025	Dry	Dry	5/08/2025
pH	-	-	6.5-8	8.13	7.85	7.71	7.67	7.93	7.75	7.79	7.56	7.4	7.61	7.14	8.18	8.15	8.16	8.04	7.99	7.42	7.61	7.1	-	-	6.91	-	7.12	8.46	7.55	8.2	6.65	10.82	-	-	8.31	7.97	-	-	7.57
Electrical Conductivity	uS/cm	-	30-350	69	45	74	69	47	65	64	71	394.00	32	23	24	16	41	34	15.0	38	48	1,170.00	-	-	1030	-	120	507.00	417	1,070.00	1610	361	-	-	1,550.00	57	-	-	717
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	166	193	186	190	185	161	176	194	206	137	156	207	205	174	145	140	222	232	151	-	-	179	-	209	106	186	171	147	126	-	-	158	192	-	-	69
Temperature	°C	-	No Water Quality Objective Value	10.48	11.3	10.07	10.26	10.84	11.18	10.09	10.19	11.85	0.7	1.97	6.3	6.4	3.03	2.15	2.71	14.65	14.65	13.6	-	-	13.35	-	5.36	7.94	10.02	10.53	15.02	7.08	-	-	10.35	9.24	-	-	10.17
Dissolved Oxygen	% saturation	-	90-110	95.4	101.6	70.5	69.8	70.9	95.8	75.5	75.9	109.9	102.5	60.5	199	92	84.1	148.2	100.7	84.9	61.3	79.2	-	-	74.5	-	52.2	132.1	117.5	99.1	65.6	50.1	-	-	98.9	94.8	-	-	95.7
Turbidity	NTU	-	2-25	3.3	9.2	3.6	7.4	11.5	4.8	3.2	4.7	4.9	3.1	1.4	6.9	6.0	6.2	11.1	5.6	27.7	12.7	28.8	-	-	5.1	-	45.9	76.5	35.70	36.5	14	85.2	-	-	19	3.2	-	-	122
Laboratory analytes																																							
TSS	mg/L	5	No Water Quality Objective Value	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	11	5	8	-	-	<5	-	9	50	19	19	<5	26	-	-	<5	<5	-	-	5
Hardness as CaCO3	mg/L	1	No Water Quality Objective Value	24	21	33	31	26	28	31	31	106	5	5	<1	<1	12	<1	<1	11	13	370	-	-	339	-	27	84	76	282	538	111	-	-	404	7	-	-	182
Nutrients																																							
Ammonia as N	µg/L	10	11	<10	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	80	<10	<10	<10	<10	<10	20	<10	-	-	<10	-	<10	20	70	30	<10	300	-	-	<10	<10	-	-	<10
Nitrite + Nitrate as N (NOx)	µg/L	10	31	<10	<10	40	<10	<10	<10	<10	20	13,500	<10	<10	10	<10	140	<10	<10	<10	<10	58,400	-	-	46,000	-	370	2,870	1,580	13,500	79,800	5,640	-	-	55,700	<10	-	-	26,800
Kjeldahl Nitrogen Total	ug/L	100	No Water Quality Objective Value	<100	<100	<100	<100	<100	<100	<100	<100	1,400	<100	100	200	200	200	100	400	400	500	5,100	-	-	2,500	-	<100	700	400	1,000	4,900	1,000	-	-	400	<100	-	-	500
Nitrogen (Total)	µg/L	100	250	<100	<100	<100	<100	<100	<100	<100	<100	15,100	<100	100	200	200	300	100	400	400	500	51,500	-	-	50,500	-	400	3,600	2,000	14,500	84,700	6,600	-	-	56,100	<100	-	-	27,300
Reactive Phosphorus	µg/L	1	15	<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
Phosphorus (Total)	µg/L	10	20	20	20	20	<10	10	40	<10	20	<10	10	20	20	10	60	110	50	30	50	<10	-	-	<10	-	20	70	50	30	20	60	-	-	20	20	-	-	20
Organics																																							
Cyanide Total	µg/L	4	4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	-	-	<4	-	<4	<4	<4	<4	<4	<4	-	-	<4	<4	-	-	<4
Hydrocarbons																																							
Oil and Grease	mg/L	1	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-	<1.0	<1.0	-	-	<1.0
Metals																																							
Aluminium (total)	ug/L	5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	122	-	-	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aluminium (dissolved)	µg/L	5	27	18	7	14	14	19	15	16	16	12	16	15	35	31	22	45	41	50	51	<5	-	-	<5	-	10	25	<5	<5	<5	64	-	-	<5	126	-	-	<5
Arsenic (total)	ug/L	0.2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.9	-	-	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	µg/L	0.2	0.6	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	0.4	0.4	0.6	-	-	<0.2	-	<0.2	1.8	1.9	1.6	<0.2	1.2	-	-	6.4	0.7	-	-	<0.2
Chromium (III+VI) (total)	µg/L	0.2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2	-	-	0.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (III+VI) (dissolved)	µg/L	0.2	0.01	0.4	0.2	0.3	0.3	3.5	0.2	0.3	0.3	0.4	0.2	<0.2	<0.2	0.2	<0.2	0.2	<0.2	0.3	0.4	0.9	-	-	0.7	-	<0.2	4.4	1.1	1.6	0.4	53.0	-	-	2.4	0.2	-	-	0.7
Copper (total)	ug/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0	-	-	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	µg/L	0.5	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.0	<0.5	<0.5	0.6	0.5	<0.5	-	-	<0.5	-	<0.5	1.8	0.8	1.9	<0.5	<0.5	-	-	<0.5	1.0	-	-	<0.5
Iron (total)	ug/L	2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	165	-	-	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	ug/L	2	300	26	12	20	21	25	21	21	21	26	12	11	26	23	98	34	34	209	205	<2	-	-	<2	-	16	4	<2	<2	<2	8	-	-	<2	52	-	-	7
Lead (total)	µg/L	0.1	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.5	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	ug/L	0.1	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	-	-	<0.1	0.4	-	-	<0.1
Manganese (total)	ug/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31.6	-	-	4.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	ug/L	0.5	1,900	1.3	1.4	1.4	2.8	1.2	2.1	1.4	2.9	16.4	1.2	0.7	1.4	1.3	69.6	2.4	2.4	44.3	3.2	26.0	-	-	3.6	-	26.4	79.0	46.0	28.9	8.6	<0.5	-	-	12.1	0.8	-	-	18.2
Nickel (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.2	-	-	1.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	ug/L	0.5	8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	<0.5	<0.5	<0.5	<0.5	1.3	<0.5	<0.5	0.8	0.9	2.1	-	-	1.0	-	1.3	2.1	1.4	0.8	2.9	<0.5	-	-	4.1	<0.5	-	-	1.2
Silver (total)	µg/L	0.01	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.01	-	-	<0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	µg/L	0.01	0.02	<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	-	-	<0.01
Zinc (total)	ug/L	1	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	µg/L	1	2.4	<1	<1	<1	<1	<1	<1	<1	<1	3	<1	2	<1	2	7	1	2	<1	<1	10	-	-	1	-	2	<1	2	<1	22	<1	-	-	2	29	-	-	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.

\- Samples not required

snowy 2.0

future generation | webuild | clough | lane

Snowy Hydro 2.0 Main Works

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

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL 41	EPL 43	EPL 44	EPL 45	EPL 47	EPL 48	EPL 49	EPL 50
Flow Rate				13/08/2025							6/08/2025
Inflow#	ML/day	-	-	-	0.0000	0.3754	0.0706	0.1472	0.0837	0.4190	-
Outflow#	ML/day	-	4.32 (EPL 43 / 50)	-	-	-	-	-	-	-	-
Field											
pH	pH Unit	-	6.5-8.5	7.48	-	-	-	-	-	-	6.96
Electrical Conductivity	µS/cm	-	700 (EPL 41) / 200 (EPL 50)	14	-	-	-	-	-	-	192
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	186	-	-	-	-	-	-	224
Temperature	°C	-	15	12.38	-	-	-	-	-	-	9.04
Dissolved Oxygen	% saturation	-	No Water Quality Objective Value	98.5	-	-	-	-	-	-	60.1
Turbidity	NTU	-	<25	0.08	-	-	-	-	-	-	3.4
Laboratory analytes											
Total suspended solids	mg/L	5	5/10	<5	-	-	-	-	-	-	<5
Hardness as $CaCO_3$	mg/L	1	No Water Quality Objective Value	<1	-	-	-	-	-	-	17
Nutrients											
Ammonia as N	µg/L	10	200/2000^	<10	-	-	-	-	-	-	20
Nitrite + Nitrate as N (NOx)	µg/L	10	10	110	-	-	-	-	-	-	90
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	200	-	-	-	-	-	-	200
Nitrogen (Total)	µg/L	100	350/-^	300	-	-	-	-	-	-	300
Reactive Phosphorus	µg/L	1	No Water Quality Objective Value	<10	-	-	-	-	-	-	10
Phosphorus (Total)	µg/L	10	100/300^	<10	-	-	-	-	-	-	<10
Inorganics											
Cyanide Total	µg/L	4	No Water Quality Objective Value	<4	-	-	-	-	-	-	<4
Hydrocarbons											
Oil and Grease	mg/L	1	2/5^	<1.0	-	-	-	-	-	-	<1.0
Metals											
Aluminium (dissolved)	µg/L	5	55	<5	-	-	-	-	-	-	<5
Arsenic (dissolved)	µg/L	0.2	13	<0.2	-	-	-	-	-	-	<0.2
Chromium (III+VI) (dissolved)	µg/L	0.2	1	<0.2	-	-	-	-	-	-	1.0
Copper (dissolved)	µg/L	0.5	14	<0.5	-	-	-	-	-	-	<0.5
Iron (dissolved)	µg/L	2	300	<2	-	-	-	-	-	-	<2
Lead (dissolved)	µg/L	0.1	3.4	<0.1	-	-	-	-	-	-	<0.1
Manganese (dissolved)	µg/L	0.5	1,900	<0.5	-	-	-	-	-	-	0.5
Nickel (dissolved)	µg/L	0.5	11	<0.5	-	-	-	-	-	-	<0.5
Silver (dissolved)	µg/L	0.01	0.05	<0.01	-	-	-	-	-	-	<0.01
Zinc (dissolved)	µg/L	1	8	<1	-	-	-	-	-	-	<1
Biological											
Faecal Coliforms	CFU/100mL	1	10/100^	<1	-	-	-	-	-	-	<1
Biological Oxygen Demand	mg/L	2	5	<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	EPL 43 *	EPL 50 ^	EPL 44	EPL 45	EPL 47	EPL 48	EPL 49
	Discharge volume (Megalitres)		Discharge volume (Megalitres)				
1/08/2025	1.99	0.82	0.56	0.08	0.20	0.09	0.058
2/08/2025	-	0.18	0.45	0.09	0.16	0.08	0.001
3/08/2025	-	0.35	0.31	0.07	0.17	0.09	0.0004
4/08/2025	-	0.64	0.37	0.08	0.24	0.08	0.43
5/08/2025	-	0.58	0.16	0.04	0.00	0.10	0.61
6/08/2025	-	-	0.36	0.09	0.11	0.08	0.56
7/08/2025	-	0.84	0.38	0.09	0.11	0.09	0.69
8/08/2025	-	0.48	0.36	0.07	0.11	0.09	0.43
9/08/2025	-	0.44	0.24	0.10	0.09	0.08	0.20
10/08/2025	1.40	1.19	0.38	0.13	0.11	0.09	0.39
11/08/2025	-	0.77	0.34	0.09	0.15	0.10	0.46
12/08/2025	-	0.75	0.16	0.08	0.15	0.07	0.71
13/08/2025	1.18	0.70	0.43	0.08	0.15	0.08	0.15
14/08/2025	-	1.08	0.44	0.09	0.14	0.08	0.17
15/08/2025	-	1.04	0.15	0.07	0.12	0.08	0.66
16/08/2025	-	0.98	0.56	0.08	0.14	0.09	0.59
17/08/2025	-	1.00	0.47	0.07	0.12	0.07	0.46
18/08/2025	-	0.86	0.35	0.07	0.10	0.08	0.68
19/08/2025	1.54	1.10	0.34	0.08	0.10	0.09	0.51
20/08/2025	-	1.11	0.33	0.08	0.13	0.06	0.23
21/08/2025	-	0.81	0.30	0.07	0.16	0.09	0.47
22/08/2025	-	0.18	0.45	0.06	0.21	0.09	0.41
23/08/2025	1.53	-	0.66	0.06	0.17	0.06	0.39
24/08/2025	1.45	0.35	0.49	0.04	0.14	0.08	0.28
25/08/2025	-	0.57	0.47	0.04	0.15	0.19	0.55
26/08/2025	-	-	0.39	0.04	0.19	0.07	0.39
27/08/2025	-	-	0.30	0.06	0.19	0.09	0.73
28/08/2025	-	-	0.32	0.04	0.18	0.10	0.63
29/08/2025	-	-	0.29	0.05	0.19	0.04	0.28
30/08/2025	-	-	0.44	0.05	0.23	0.04	0.439
31/08/2025	-	-	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.

Snowy Hydro 2.0 Main Works

Monthly EPL Sampling: 01-30 September 2025 - Groundwater

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL56	EPL57	EPL58	EPL68	EPL69	EPL70	EPL72	EPL80	EPL81	EPL82	EPL83	EPL87	EPL88	EPL89	EPL 90	EPL 91	EPL92	EPL93	EPL94	EPL95	EPL96	EPL97	EPL103	EPL104	EPL105	EPL113	EPL114	EPL115	EPL116	EPL117
Physicochemical				1/09/2025	1/09/2025	1/09/2025	6/09/2025	6/09/2025	6/09/2025	13/09/2025	7/09/2025	6/09/2025	7/09/2025	6/09/2025	7/09/2025	6/09/2025	7/09/2025	1/09/2025	1/09/2025	1/09/2025	1/09/2025	1/09/2025	1/09/2025	12/09/2025	1/09/2025	6/09/2025	14/09/2025	6/09/2025	12/09/2025	12/09/2025	6/09/2025	6/09/2025	6/09/2025
pH	pH Unit	-	6.5-9	7.39	6.99	5.96	5.59	6.16	6.06	3.46	6.8	7.02	6.71	7.25	7	7.13	6.82	5.92	7.41	6.64	7.08	6.67	6.06	7.18	6.59	5.78	6.38	5.7	5.94	7.32	7.49	6.53	6.69
Electrical Conductivity	uS/cm	-	30-350	252	276	810	27	44	27	255	504	974	2810	657	884	952	327	339	107	155	240	175	782	1480	521	52	231	170	68	601	350	141	142
Oxidation Reduction Potential	mv	-	No Water Quality Objective Value	128	137	196	274	229	258	449	-2	-12	-30	157	132	102	130	142	25	154	154	50	180	160	152	265	270	274	202	189	1	181	-66
Temperature	°C	-	No Water Quality Objective Value	10.37	14.29	17.03	11.27	9.45	9.04	9.58	17.03	15.05	17.16	13.73	14.29	16.05	12.71	14.07	12.8	13.96	14.2	14.27	16.36	15.96	15.76	10.17	9.86	8.95	10.66	12.97	10.63	14.46	15.61
Dissolved Oxygen	% saturation	-	No Water Quality Objective Value	48.1	102.8	70.8	87.2	61.6	60.1	49.3	21.1	22.9	14.5	48.3	32.6	21.1	31.8	44.9	110.6	65.9	34.6	30.8	11.2	41.2	16.2	44.7	58.9	94.6	39.6	28.8	41	101.2	106.1
Turbidity	NTU	-	No Water Quality Objective Value	4.9	49.4	4.6	3.4	8.2	56.4	89.6	32.1	111	17.4	12.4	728	14.5	18.6	87.9	33	101	533	79.2	7.8	249	11.4	10.1	355	0.41	108	9.8	29.8	323	28.5
Laboratory analytes																																	
TSS	mg/L	5	No Water Quality Objective Value	<5	<5	<5	<5	27	<5	44	21	160	145	<5	280	9	132	79	5	422	627	39	<5	260	92	<5	245	<5	154	5	96	496	239
Hardness as CaCO3	mg/L	1	No Water Quality Objective Value	120	110	234	7	16	7	11	379	442	1,320	125	84	160	40	27	107	41	108	74	243	483	146	<1	42	60	19	171	145	37	32
Nutrients																																	
Ammonia as N	ug/L	10	13	20	20	10	<10	<10	<10	10	30	80	80	10	<10	40	10	10	70	<10	30	20	<10	10	10	<10	<10	10	<10	20	<10	<10	10
Nitrite + Nitrate as N (NOx)	ug/L	10	15	430	1,720	39,200	2,200	280	180	70	<10	10	<10	1,300	12,400	<10	470	1,260	<10	<10	10	<10	39,300	51,300	540	840	550	3,130	<10	20	<10	80	<10
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	<100	100	3,400	200	<100	<100	100	100	200	200	200	1,100	200	100	100	100	<100	<100	<100	4,800	4,500	<100	<100	200	400	700	<100	<100	100	<100
Nitrogen (Total)	µg/L	100	250	400	1,800	42,600	2,500	300	200	200	100	200	200	1,500	13,500	200	600	1,400	100	<100	<100	<100	44,100	59,800	500	800	800	3,500	700	<100	<100	200	<200
Reactive Phosphorus	µg/L	1	15	<10	10	<10	<10	<10	<10	20	<10	10	<10	20	30	20	10	<10	<10	<10	<10	<10	<10	<10	<10	20	<10	<10	<10	<10	<10	10	<10
Phosphorus (Total)	ug/L	10	20	50	60	30	20	30	50	100	80	200	80	60	440	80	10	40	60	40	190	70	20	140	40	50	220	30	80	20	20	130	360
Inorganics																																	
Cyanide Total	µg/L	4	4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Hydrocarbons																																	
Oil and Grease	mg/L	1	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Metals																																	
Aluminium (total)	µg/L	5	No Water Quality Objective Value	30	126	26	81	660	252	837	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aluminium (dissolved)	ug/L	5	27	<5	<5	<5	<5	<5	<5	7	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	29	63	<5	<5	<5	<5
Arsenic (total)	µg/L	0.2	No Water Quality Objective Value	<0.2	3.0	<0.2	<0.2	0.3	<0.2	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	ug/L	0.2	0.8	<0.2	3.0	<0.2	<0.2	<0.2	<0.2	<0.2	2.5	3.4	14.3	1.2	0.5	7.6	<0.2	<0.2	1.2	0.3	0.7	1.1	1.3	<0.2	0.2	<0.2	<0.2	<0.2	0.4	0.4	0.3	0.4	1.3
Chromium (III+VI) (total)	µg/L	0.2	No Water Quality Objective Value	<0.2	0.5	0.4	0.2	1.4	0.6	0.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (III+VI) (dissolved)	ug/L	0.2	0.91	<0.2	<0.2	<0.2	<0.2	<0.2	0.3	<0.2	<0.2	<0.2	<0.2	2.2	12.5	<0.2	<0.2	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.6	<0.2	<0.2	<0.2	<0.2	<0.2	0.4	<0.2	<0.2	<0.2
Copper (total)	µg/L	0.5	No Water Quality Objective Value	3.5	33.8	9.3	1.4	2.2	26.5	7.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	ug/L	0.5	1	0.7	7.8	3.0	1.1	0.5	19.7	2.0	<0.5	<0.5	<0.5	9.2	4.2	7.2	21.3	0.5	<0.5	<0.5	<0.5	<0.5	170	0.6	<0.5	21.2	1.8	2.8	113	1.3	<0.5	14.2	<0.5
Iron (total)	µg/L	2	No Water Quality Objective Value	41	122	30	33	595	166	1,010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	ug/L	2	300	<2	<2	<2	<2	<2	<2	<2	3	<2	1,280	<2	3	2	<2	4	114	<2	<2	<2	<2	<2	<2	<2	<2	<2	80	<2	<2	<2	3,280
Lead (total)	µg/L	0.1	No Water Quality Objective Value	0.2	0.2	2.9	0.4	0.4	0.1	3.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	µg/L	0.1	1	<0.1	<0.1	0.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1
Manganese (total)	µg/L	0.5	No Water Quality Objective Value	15.1	93.4	8.0	4.8	27.2	6.5	41.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	ug/L	0.5	1,200	10.8	86.6	7.6	4.8	2.0	2.1	5.0	221	316	381	5.0	25.3	367	8.4	6.4	722	71.7	93.6	637	671	33.7	461	3.0	20.0	38.5	16.4	76.2	265	35.0	694
Nickel (total)	µg/L	0.5	No Water Quality Objective Value	<0.5	0.7	3.5	0.8	1.5	0.5	8.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	ug/L	0.5	8	<0.5	<0.5	3.5	0.7	<0.5	<0.5	2.6	20.1	2.6	3.0	3.1	41.8	3.6	2.2	4.0	1.7	1.7	0.7	1.4	15.6	2.1	4.4	<0.5	1.8	5.6	<0.5	1.2	0.8	2.3	4.8
Silver (total)	µg/L	0.01	No Water Quality Objective Value	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	µg/L	0.01	0.02	<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	0.10	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc (total)	µg/L	1	No Water Quality Objective Value	7	3	9	4	4	3	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	µg/L	1	2.4	2	<1	6	3	2	3	6	3	1	8	1	<1	3	<1	12	<1	2	<1	3	47	<1	78	<1	6	20	4	7	<1	6	<1

* 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 EPL 21366.

- Sample not required at this location.

Snowy Hydro 2.0 Main Works
Monthly EPL Sampling: 01-30 September 2025 - Talbingo and Tantangara Reservoir

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL10	EPL11	EPL28	EPL29	EPL32	EPL38	EPL39	EPL40	EPL46	EPL51	EPL107	EPL108	EPL109
Field				2/09/2025	2/09/2025	3/09/2025	3/09/2025	3/09/2025	3/09/2025	3/09/2025	3/09/2025	3/09/2025	3/09/2025	2/09/2025	2/09/2025	2/09/2025
pH	pH Unit	-	6.5-8	7.39	7.39	6.92	6.75	6.69	6.8	7.46	7.62	6.6	6.73	7.32	7.48	7.83
Electrical Conductivity	µS/cm	-	20-30	36	32	7	10	10	9	45	6	10	10	25	23	24
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	190	185	199	214	216	209	210	170	225	216	174	165	148
Temperature	°C	-	No Water Quality Objective Value	10.56	10.8	5.72	6.46	6.4	6.22	9.31	5.68	6.45	6.46	8.96	8.77	8.67
Dissolved Oxygen	% saturation	-	90-110	85.7	93.6	75.6	62.8	65.9	69.4	77.2	88.8	65.3	72.9	87.2	84.2	91.5
Turbidity	NTU	-	1-20	2.8	2.8	4.9	3.5	3.7	3.4	6.7	1.3	3.2	9.4	6	8	7.4
Laboratory analytes																
Total suspended solids	mg/L	5	No Water Quality Objective Value	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Hardness as $CaCO_3$	mg/L	1	No Water Quality Objective Value	17	14	<1	2	2	2	<1	2	<1	2	12	5	5
Nutrients																
Ammonia as N	µg/L	10	10	<10	<10	20	<10	10	<10	<10	<10	10	10	<10	<10	<10
Nitrite + Nitrate as N (NOx)	µg/L	10	10	40	50	20	20	30	20	60	10	30	20	40	40	40
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	200	100	200	200	200	200	200	100	200	200	200	100	100
Nitrogen (Total)	µg/L	100	350	200	200	200	200	200	200	300	100	200	200	200	100	100
Reactive Phosphorus	µg/L	1	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Phosphorus (Total)	µg/L	10	10	10	20	<10	<10	<10	<10	120	<10	<10	<10	30	30	50
Inorganics																
Cyanide Total	µg/L	4	7	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<6
Hydrocarbons																
Oil and Grease	mg/L	1	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Metals																
Aluminium (dissolved)	µg/L	5	55	14	10	147	32	35	41	20	41	30	64	5	<5	<5
Arsenic (dissolved)	µg/L	0.2	13	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
Chromium (III+VI) (dissolved)	µg/L	0.2	1	<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
Copper (dissolved)	µg/L	0.5	14	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5
Iron (dissolved)	µg/L	2	300	33	23	72	44	45	56	19	40	43	60	11	7	6
Lead (dissolved)	µg/L	0.1	3.4	<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
Manganese (dissolved)	µg/L	0.5	1,900	9.4	5.6	8.1	1.2	1.0	1.6	5.1	3.2	1.5	1.4	<0.5	<0.5	<0.5
Nickel (dissolved)	µg/L	0.5	11	<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
Silver (dissolved)	µg/L	0.01	0.05	<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
Zinc (dissolved)	µg/L	1	8	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Biological																
Faecal Coliforms	CFU/100mL	1	10/100^	1	1	3	-	-	-	-	-	-	<1	-	-	-
Biochemical Oxygen Demand	mg/L	2	1/5^	2	<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 feacal 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 September 2025 - Surface Water

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL5	EPL6	EPL8	EPL9	EPL12	EPL14	EPL15	EPL16	EPL24	EPL26	EPL27	EPL30	EPL31	EPL33	EPL34	EPL35	EPL36	EPL37	EPL52	EPL53	EPL54	EPL55	EPL67	EPL71	EPL84	EPL85	EPL86	EPL98	EPL99	EPL100	EPL101	EPL106	EPL110	EPL118	EPL119	EPL120	EPL122
Field				5/09/2025	5/09/2025	5/09/2025	5/09/2025	5/09/2025	5/09/2025	5/09/2025	5/09/2025	1/09/2025	13/09/2025	13/09/2025	6/09/2025	6/09/2025	6/09/2025	6/09/2025	6/09/2025	6/09/2025	13/09/2025	1/09/2025	Dry	Dry	1/09/2025	Dry	13/09/2025	6/09/2025	6/09/2025	6/09/2025	13/09/2025	13/09/2025	DRY	DRY	12/09/2025	12/09/2025	12/09/2025	12/09/2025	12/09/2025	12/09/2025
pH	-	-	6.5-8	7.44	7.26	7.61	7.69	7.43	7.31	7.49	7.51	7.66	6.94	7.01	7.58	7.13	8.06	7.53	6.9	7.06	7.07	6.88	-	-	8.98	-	7.33	8.49	8.87	8.13	8.43	9.28	-	-	7.43	7.38	7.66	7.57	7.57	8.08
Electrical Conductivity	uS/cm	-	30-350	51	40	60	55	51	53	52	55	155.00	27	25	11	7	58	5	2.0	37	36	1,020.00	-	-	915	-	161	324.00	523	1,090.00	1540	366	-	-	1,120.00	45	159	120	53	618
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	206	226	218	212	216	229	223	219	150	225	233	184	212	189	207	216	236	251	89	-	-	167	-	193	160	170	178	208	147	-	-	105	151	110	128	131	107
Temperature	°C	-	No Water Quality Objective Value	9.77	7.88	9.4	9.92	8.43	8.07	8.17	9.3	10.94	8.73	8.57	4.46	5.01	9.46	8.6	7.98	16.88	16.47	15.37	-	-	13.11	-	6.36	13.57	13.89	15.86	15.43	8.31	-	-	12.17	8.82	10.82	11.98	12.42	13.25
Dissolved Oxygen	% saturation	-	90-110	78.1	74.5	75.5	79.8	77.3	77	77.8	85.3	103.5	94.5	70.2	80.8	71.7	129.7	72.4	87.2	69.3	67.1	72.4	-	-	68.3	-	65	72.6	142.3	79.1	62.8	78.8	-	-	111.6	93.2	77.7	85.4	64.8	68
Turbidity	NTU	-	2-25	0.8	2.8	7.6	5.7	0.5	1.7	4.4	7.2	9.4	2.09	0.95	10.1	3.4	4.6	3.0	4.3	23.0	12.6	11.8	-	-	4.5	-	23.2	246	40.30	70.8	1.1	135	-	-	74.3	1.8	1000	520	242	20.3
Laboratory analytes																																								
TSS	mg/L	5	No Water Quality Objective Value	<5	<5	<5	<5	<5	<5	<5	<5	<5	5	<5	<5	<5	<5	<5	<5	<5	5	<5	-	-	<5	-	8	126	14	28	<5	68	-	-	6	10	1,690	187	41	<5
Hardness as CaCO3	mg/L	1	No Water Quality Objective Value	24	21	31	28	24	28	28	28	41	5	5	<1	<1	2	<1	<1	4	7	289	-	-	168	-	36	36	124	272	547	85	-	-	180	10	40	27	10	132
Nutrients																																								
Ammonia as N	µg/L	10	11	<10	<10	<10	<10	<10	<10	<10	<10	10	<10	<10	<10	<10	<10	<10	<10	50	<10	10	-	-	20	-	50	20	290	20	10	2,100	-	-	80	<10	30	20	<10	10
Nitrite + Nitrate as N (NOx)	µg/L	10	31	<10	<10	<10	<10	<10	<10	<10	<10	2,920	<10	<10	10	<10	20	<10	<10	<10	<10	60,700	-	-	37,900	-	1,350	1,970	1,220	12,100	85,000	5,760	-	-	38,500	<10	270	210	70	17,900
Kjeldahl Nitrogen Total	ug/L	100	No Water Quality Objective Value	<100	<100	<100	<100	<100	<100	<100	<100	500	300	<100	100	100	200	100	100	1,100	500	1,600	-	-	1,600	-	300	500	600	800	1,900	5,500	2,600	-	-	2,000	<100	1,800	<500	200	700
Nitrogen (Total)	µg/L	100	250	<100	<100	<100	<100	<100	<100	<100	<100	3,400	300	<100	100	100	200	100	100	1,100	500	62,300	-	-	39,500	-	1,600	2,400	2,000	13,100	90,500	8,400	-	-	40,500	<100	2,100	<500	300	18,600
Reactive Phosphorus	µg/L	1	15	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	<10	<10
Phosphorus (Total)	µg/L	10	20	40	40	50	30	40	40	30	30	20	100	<10	70	40	60	40	80	40	30	30	-	-	30	-	30	170	80	50	20	90	-	-	20	<10	790	200	30	20
Inorganics																																								
Cyanide Total	µg/L	4	4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	-	-	<4	-	<4	<4	<4	<4	<4	<4	-	-	<4	<4	<4	<4	<4	<4
Hydrocarbons																																								
Oil and Grease	mg/L	1	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Metals																																								
Aluminium (total)	ug/L	5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	107	-	-	139	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aluminium (dissolved)	µg/L	5	27	18	<5	12	13	14	12	13	11	12	5	5	19	17	37	21	22	96	39	<5	-	-	<5	-	<5	10	7	<5	<5	9	-	-	<5	6	14	14	14	<5
Arsenic (total)	ug/L	0.2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.7	-	-	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	µg/L	0.2	0.6	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	0.4	0.4	0.7	-	-	0.2	-	<0.2	2.5	24	1.6	<0.2	2.2	-	-	3.1	0.5	0.7	0.8	0.5	<0.2
Chromium (III+VI) (total)	µg/L	0.2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.7	-	-	0.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (III+VI) (dissolved)	µg/L	0.2	0.01	<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	0.4	0.6	0.4	-	-	0.5	-	1.2	2.6	5.6	1.5	<0.2	9.4	-	-	1.9	<0.2	<0.2	<0.2	<0.2	0.6
Copper (total)	ug/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.6	-	-	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	µg/L	0.5	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	0.8	<0.5	-	-	<0.5	-	<0.5	1.2	0.8	1.9	0.5	<0.5	-	-	0.5	<0.5	<0.5	0.5	<0.5	0.6
Iron (total)	ug/L	2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	126	-	-	138	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	ug/L	2	300	22	8	35	16	17	17	16	18	28	10	7	18	20	47	14	15	180	194	<2	-	-	23	-	5	5	<2	2	<2	<2	-	-	<2	6	83	76	25	5
Lead (total)	µg/L	0.1	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2	-	-	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	ug/L	0.1	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	<0.1	<0.1	0.1	<0.1	<0.1
Manganese (total)	ug/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.7	-	-	3.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	ug/L	0.5	1300	1.1	0.9	1.1	1.9	0.8	1.8	1.0	1.9	8.4	2.0	0.8	1.2	0.9	0.9	2.6	2.5	18.1	9.5	15.9	-	-	1.4	-	35.5	7.6	36.1	19.8	6.2	4.1	-	-	7.4	<0.5	49.0	78.6	7.7	12.4
Nickel (total)	ug/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1	-	-	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	ug/L	0.5	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	1.1	1.2	1.7	-	-	0.7	-	1.4	0.7	2.2	0.8	3.2	<0.5	-	-	3.5	<0.5	0.5	<0.5	<0.5	1.3
Silver (total)	µg/L	0.01	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.01	-	-	<0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	µg/L	0.01	0.02	0.02	<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	<0.01	<0.01	<0.01
Zinc (total)	ug/L	1	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	µg/L	1	2.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	2	7	-	-	<1	-	<1	<1	<1	<1	27	<1	-	-	1	25	3	4	4	<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.

\- Samples not required

Snowy Hydro 2.0 Main Works

Monthly EPL Sampling: 01-30 September 2025 - Discharge Water

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL 41	EPL 43	EPL 44	EPL 45	EPL 47	EPL 48	EPL 49	EPL 50
Flow Rate				7/09/2025							17/09/2025
Inflow[#]	ML/day	-	-	-	0.0000	0.4031	0.0471	0.1514	0.0465	0.3649	-
Outflow[#]	ML/day	-	4.32 (EPL 43 / 50)	-	-	-	-	-	-	-	-
Field											
pH	pH Unit	-	6.5-8.5	6.65	-	-	-	-	-	-	6.75
Electrical Conductivity	µS/cm	-	700 (EPL 41) / 200 (EPL 50)	190	-	-	-	-	-	-	109
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	269	-	-	-	-	-	-	240
Temperature	°C	-	15	14.38	-	-	-	-	-	-	10.35
Dissolved Oxygen	% saturation	-	No Water Quality Objective Value	81.8	-	-	-	-	-	-	86.2
Turbidity	NTU	-	<25	3.69	-	-	-	-	-	-	4.3
Laboratory analytes											
Total suspended solids	mg/L	5	5/10	<5	-	-	-	-	-	-	<5
Hardness as $CaCO_3$	mg/L	1	No Water Quality Objective Value	<1	-	-	-	-	-	-	<1
Nutrients											
Ammonia as N	µg/L	10	200/2000^	<10	-	-	-	-	-	-	<10
Nitrite + Nitrate as N (NOx)	µg/L	10	No Water Quality Objective Value	50	-	-	-	-	-	-	40
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	300	-	-	-	-	-	-	<100
Nitrogen (Total)	µg/L	100	350/-^	400	-	-	-	-	-	-	<100
Reactive Phosphorus	µg/L	1	No Water Quality Objective Value	<10	-	-	-	-	-	-	<10
Phosphorus (Total)	µg/L	10	100	20	-	-	-	-	-	-	50
Inorganics											
Cyanide Total	µg/L	4	No Water Quality Objective Value	<4	-	-	-	-	-	-	<4
Hydrocarbons											
Oil and Grease	mg/L	1	2/5^	<1.0	-	-	-	-	-	-	<1.0
Metals											
Aluminium (dissolved)	µg/L	5	55	<5	-	. -	-	-	-	-	<5
Arsenic (dissolved)	µg/L	0.2	13	<0.2	-	. -	-	-	-	-	<0.2
Chromium (III+VI) (dissolved)	µg/L	0.2	1	<0.2	-	. -	-	-	-	-	0.5
Copper (dissolved)	µg/L	0.5	14	<0.5	-	. -	-	-	-	-	<0.5
Iron (dissolved)	µg/L	2	300	<2	-	. -	-	-	-	-	<2
Lead (dissolved)	µg/L	0.1	3.4	<0.1	-	. -	-	-	-	-	<0.1
Manganese (dissolved)	µg/L	0.5	1,900	<0.5	-	. -	-	-	-	-	<0.1
Nickel (dissolved)	µg/L	0.5	11	<0.5	-	. -	-	-	-	-	<0.5
Silver (dissolved)	µg/L	0.01	0.05	<0.01	-	. -	-	-	-	-	<0.01
Zinc (dissolved)	µg/L	1	8	<0.1	-	-	-	-	-	-	<1
Biological											
Faecal Coliforms	CFU/100mL	1	10/100^	<1	-	-	-	-	-	-	<1
Biological Oxygen Demand	mg/L	2	5	<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	EPL 43 *	EPL 50 ^	EPL 44	EPL 45	EPL 47	EPL 48	EPL 49
	Discharge volume (Megalitres)		Discharge volume (Megalitres)				
1/09/2025	0.79	-	0.33	0.09	0.19	0.09	0.58
2/09/2025	-	0.16	0.39	0.09	0.27	0.09	0.14
3/09/2025	-	0.06	0.43	0.07	0.19	0.08	1.64
4/09/2025	-	0.59	0.36	0.05	0.15	0.10	0.52
5/09/2025	-	0.42	0.18	0.06	0.13	0.07	0.68
6/09/2025	-	-	0.41	0.07	0.13	0.08	0.39
7/09/2025	-	0.72	0.20	0.07	0.21	0.07	0.62
8/09/2025	-	0.73	0.34	0.06	0.18	0.09	0.55
9/09/2025	-	1.11	0.47	0.05	0.21	0.09	0.01
10/09/2025	0.64	1.12	0.64	0.08	0.18	0.07	0.53
11/09/2025	0.35	-	0.42	0.06	0.19	0.08	0.52
12/09/2025	-	-	0.38	0.06	0.19	0.10	0.75
13/09/2025	-	-	0.45	0.05	0.21	0.06	0.54
14/09/2025	0.65	-	0.19	0.05	0.16	0.07	0.71
15/09/2025	0.85	1.16	0.26	0.06	0.22	0.08	0.74
16/09/2025	0.40	0.28	0.44	0.06	0.16	0.10	0.72
17/09/2025	0.44	0.13	0.35	0.06	0.19	0.09	0.67
18/09/2025	0.57	-	0.30	0.08	0.16	0.00	0.62
19/09/2025	0.38	0.28	0.40	0.06	0.20	0.00	0.00
20/09/2025	-	0.09	0.36	0.06	0.20	0.00	0.00
21/09/2025	-	0.04	0.19	0.06	0.21	0.00	0.00
22/09/2025	0.53	0.04	0.54	0.07	0.19	0.00	0.00
23/09/2025	-	0.04	0.70	0.00	0.18	0.00	0.00
24/09/2025	-	0.19	0.54	0.00	0.24	0.00	0.00
25/09/2025	-	0.67	0.32	0.00	0.00	0.00	0.00
26/09/2025	-	0.18	0.42	0.00	0.00	0.00	0.00
27/09/2025	0.68	0.004	0.41	0.00	0.00	0.00	0.00
28/09/2025	1.17	0.16	0.46	0.00	0.00	0.00	0.00
29/09/2025	-	0.31	0.60	0.00	0.00	0.00	0.00
30/09/2025	-	0.50	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.

Snowy Hydro 2.0 Main Works

Monthly EPL Sampling: 01-31 October 2025 - Groundwater

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL56	EPL57	EPL58	EPL68	EPL69	EPL70	EPL72	EPL80	EPL81	EPL82	EPL83	EPL87	EPL88	EPL89	EPL 90	EPL 91	EPL92	EPL93	EPL94	EPL95	EPL96	EPL97	EPL103	EPL104	EPL105	EPL113	EPL114	EPL115	EPL116	EPL117
				14/10/2025	14/10/2025	15/10/2025	11/10/2025	11/10/2025	11/10/2025	25/10/2025	14/10/2025	5/10/2025	5/10/2025	5/10/2025	5/10/2025	14/10/2025	5/10/2025	14/10/2025	14/10/2025	14/10/2025	14/10/2025	14/10/2025	15/10/2025	15/10/2025	15/10/2025	1/10/2025	1/10/2025	11/10/2025	3/10/2025	3/10/2025	3/10/2025	3/10/2025	3/10/2025	3/10/2025
Physiochemical																																	
pH	pH Unit	-	6.5-8	7.57	7.75	8.05	5.56	5.52	6.76	5.53	6.92	6.79	6.66	6.43	6.7	6.93	6.83	5.56	6.8	6.77	7.14	6.94	6.03	7.05	6.55	6.16	5.95	5.39	5.92	7.19	7.36	6.51	6.4
Electrical Conductivity	µS/cm	-	30-350	245	257	993	25	59	99	48	933	1040	2840	646	845	965	385	140	235	113	196	170	755	538	498	50	76	254	78	391	375	151	145
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	204	187	285	233	247	175	199	35	-40	-16	96	47	5	164	230	98	227	196	18	297	235	181	259	296	254	178	183	129	192	-7
Temperature	°C	-	No Water Quality Objective Value	17.29	16.63	13.16	11.42	10.42	11.09	13.15	18.34	15.44	18.12	14.68	16.82	17.94	16.79	17.47	16.28	16.59	17.94	16.7	13.6	12.71	13.69	11.74	8.91	11.19	10.54	12.3	12.3	12.54	12.6
Dissolved Oxygen	% saturation	-	No Water Quality Objective Value	32.9	20.2	29.8	63.8	52.5	71.1	41.9	36.8	12.4	19.6	9.1	12.9	98.6	45.1	36.9	15.4	75.1	18.5	31.4	22.7	53.5	17.1	50.3	50.7	52.2	41.3	12.8	27.5	66.4	24.3
Turbidity	NTU	-	No Water Quality Objective Value	0.5	17.9	1.3	1.3	61.8	109	26.3	13.8	228	32.5	162	21.6	0	104	1.1	30.7	339	139	85.6	0.9	437	15.3	14.4	30.2	0.8	168	0	21.3	279	31.2
Laboratory analytes																																	
TSS	mg/L	5	No Water Quality Objective Value	<5	<5	<5	<5	58	8	45	12	202	90	116	14	14	79	<5	28	520	53	74	<5	360	18	<5	73	<5	33	8	18	656	252
Hardness as CaCO3	mg/L	1	No Water Quality Objective Value	124	118	319	<1	16	26	13	372	380	1,280	108	104	183	61	16	117	43	112	78	272	195	153	2	20	41	19	162	136	47	35
Nutrients																																	
Ammonia as N	ug/L	10	13	<10	<10	40	30	20	30	10	20	70	90	<10	<10	90	<10	<10	30	<10	20	30	40	<10	<10	<10	<10	30	<10	<10	10	<10	40
Nitrite + Nitrate as N (NOx)	ug/L	10	15	470	2,110	48,600	1,270	310	690	60	<10	<10	<10	140	11,000	<10	60	1,380	20	30	10	<10	39,800	22,100	600	860	490	2,330	<10	20	<10	70	<10
Kieldahl Nitrogen Total	ug/L	100	No Water Quality Objective Value	<100	500	6,000	<100	<100	300	100	<100	<500	200	<500	500	200	200	<100	<100	<100	<100	<100	6,700	2,400	<100	<100	<100	200	300	<100	300	<500	<100
Nitrogen (Total)	ug/L	100	250	500	2,600	54,600	1,300	300	1,000	200	<100	<500	200	<500	11,500	200	300	1,400	<100	<100	<100	<100	46,500	24,500	600	900	500	2,500	300	<100	300	<500	<100
Reactive Phosphorus	ug/L	1	15	<10	10	<10	<10	<10	20	20	30	<10	80	<10	10	10	10	<10	<10	<10	<10	<10	<10	<10	<10	20	<10	<10	<10	<10	<10	10	80
Phosphorus (Total)	ug/L	10	20	10	30	<10	<10	50	100	40	40	400	30	70	70	90	50	<10	40	310	70	60	20	250	20	80	40	10	40	20	20	220	290
Inorganics																																	
Cyanide Total	µg/L	4	4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Hydrocarbons																																	
Oil and Grease	mg/L	1	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Metals																																	
Aluminium (total)	ug/L	5	No Water Quality Objective Value	133	162	36	74	2,020	1,310	999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aluminium (dissolved)	ug/L	5	27	<5	<5	<5	<5	<5	<5	9	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	9	30	<5	<5	<5	<5
Arsenic (total)	µg/L	0.2	No Water Quality Objective Value	<0.2	3.4	<0.2	<0.2	0.8	0.2	0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	µg/L	0.2	0.8	<0.2	3.2	<0.2	<0.2	<0.2	<0.2	<0.2	2.8	5.4	18.2	1.1	<0.2	10.7	0.2	<0.2	0.2	0.3	0.8	1.8	1.1	<0.2	<0.2	<0.2	<0.2	<0.2	0.4	0.4	0.3	0.6	1.6
Chromium (III+VI) (total)	µg/L	0.2	No Water Quality Objective Value	0.5	0.6	0.4	0.2	2.8	1.1	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (III+VI) (dissolved)	µg/L	0.2	0.01	<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	<0.2	<0.2	<0.2	0.5	<0.2	<0.2	<0.2	<0.2	<0.2	0.7	<0.2	<0.2	<0.2
Copper (total)	µg/L	0.5	No Water Quality Objective Value	6.1	20.0	29.6	2.2	6.0	145	45.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	µg/L	0.5	1	0.6	3.2	25.3	1.8	<0.5	26.9	22.4	<0.5	<0.5	<0.5	13.0	3.6	6.9	6.3	5.4	<0.5	<0.5	<0.5	<0.5	<0.5	997	<0.5	<0.5	7.6	1.0	1.7	163	1.0	<0.5	11.6	<0.5
Iron (total)	µg/L	2	No Water Quality Objective Value	201	178	37	55	2,120	980	1,240	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	µg/L	2	300	<2	<2	<2	2	<2	<2	<2	<2	2,000	2,210	<2	<2	4	<2	2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	51	<2	<2	<2	3,180
Lead (total)	µg/L	0.1	No Water Quality Objective Value	1.5	0.4	2.7	<0.1	1.8	0.6	3.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	µg/L	0.1	1	<0.1	<0.1	1.2	<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	0.2	<0.1	<0.1	<0.1	<0.1
Manganese (total)	µg/L	0.5	No Water Quality Objective Value	28.3	76.5	8.4	3.4	106	23.4	40.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	µg/L	0.5	1,200	3.8	53.8	8.0	3.0	3.3	1.6	5.5	111	362	402	22.0	29.6	162	9.7	7.0	286	35.1	12.4	474	342	3.4	405	1.4	13.1	27.6	14.8	6.3	227	45.8	534
Nickel (total)	µg/L	0.5	No Water Quality Objective Value	0.6	0.9	4.1	0.6	2.9	0.8	6.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	µg/L	0.5	8	<0.5	<0.5	3.7	0.5	<0.5	<0.5	1.8	15.5	2.2	0.7	8.2	59.7	3.2	2.2	3.1	0.8	1.0	<0.5	1.2	12.4	1.6	3.7	<0.5	0.6	6.2	<0.5	0.8	1.6	3.6	3.5
Silver (total)	µg/L	0.01	No Water Quality Objective Value	<0.01	<0.01	0.01	<0.01	0.04	<0.01	<0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	µg/L	0.01	0.02	<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	0.02	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc (total)	ug/L	1	No Water Quality Objective Value	10	1	11	3	8	2	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	ug/L	1	2.4	2	<1	10	3	2	3	7	<1	2	<1	1	<1	1	4	12	2	3	<1	2	45	<1	45	<1	1	34	3	6	<1	8	<1

* 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 EPL 21266.

\- Sample not required at this location.

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*	EPL10	EPL11	EPL28	EPL29	EPL32	EPL38	EPL39	EPL40	EPL46	EPL51	EPL107	EPL108	EPL109
Field				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
pH	pH Unit	-	6.5-8	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
Electrical Conductivity	µS/cm	-	20-30	85	67	21	19	17	19	17	92	17	17	52	50	54
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	167	161	188	243	237	222	240	232	254	250	162	144	122
Temperature	°C	-	No Water Quality Objective Value	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
Dissolved Oxygen	% saturation	-	90-110	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
Turbidity	NTU	-	1-20	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
Laboratory analytes																
Total suspended solids	mg/L	5	No Water Quality Objective Value	<5	<5	<5	<5	6	<5	<5	<5	8	<5	<5	<5	<5
Hardness as $CaCO_3$	mg/L	1	No Water Quality Objective Value	230	31	2	2	2	2	<1	<1	2	2	19	17	17
Nutrients																
Ammonia as N	µg/L	10	10	20	<10	30	30	<10	<10	<10	<10	<10	<10	<10	<10	20
Nitrite + Nitrate as N (NOx)	µg/L	10	10	10	10	10	<10	<10	<10	10	30	<10	<10	10	10	10
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	200	200	100	100	200	<100	<100	200	100	100	200	200	200
Nitrogen (Total)	µg/L	100	350	200	200	100	100	200	<100	<100	200	100	100	200	200	200
Reactive Phosphorus	µg/L	1	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Phosphorus (Total)	µg/L	10	10	60	30	20	30	10	30	<10	90	90	20	30	20	<10
Inorganics																
Cyanide Total	µg/L	4	7	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Hydrocarbons																
Oil and Grease	mg/L	1	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Metals																
Aluminium (dissolved)	µg/L	5	55	6	6	29	26	27	26	11	15	26	23	5	6	6
Arsenic (dissolved)	µg/L	0.2	13	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
Chromium (III+VI) (dissolved)	µg/L	0.2	1	<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
Copper (dissolved)	µg/L	0.5	14	<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
Iron (dissolved)	µg/L	2	300	15	14	98	67	68	71	35	44	66	62	10	10	10
Lead (dissolved)	µg/L	0.1	3.4	<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
Manganese (dissolved)	µg/L	0.5	1,900	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
Nickel (dissolved)	µg/L	0.5	11	<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
Silver (dissolved)	µg/L	0.01	0.05	<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
Zinc (dissolved)	µg/L	1	8	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Biological																
Faecal Coliforms	CFU/100mL	1	10/100^	5	1	<1	-	-	-	-	-	-	<1	-	-	-
Biochemical Oxygen Demand	mg/L	2	1/5^	<2	<2	<2	-	-	-	-	-	-	<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 feacal 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 October 2025 - Surface Water

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL5	EPL6	EPL8	EPL9	EPL12	EPL14	EPL15	EPL16	EPL24	EPL26	EPL27	EPL30	EPL31	EPL33	EPL34	EPL35	EPL36	EPL37	EPL52	EPL53	EPL54	EPL55	EPL67	EPL71	EPL84	EPL85	EPL86	EPL98	EPL99	EPL100	EPL101	EPL106	EPL110	EPL118	EPL119	EPL120	EPL122
Field				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	3/10/2025	Dry	Dry	3/10/2025	14/10/2025
pH	-	-	6.5-8	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	-	-	-	-	-	8.67	7.35	8.29	-	8.44	8.63	-	8.25	7.07	-	-	7.26	8.14
Electrical Conductivity	µS/cm	-	30-350	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	582
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	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
Temperature	°C	-	No Water Quality Objective Value	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
Dissolved Oxygen	% saturation	-	90-110	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	-	59.4	80.8	-	103.3	88.7	-	-	75.3	78.5
Turbidity	NTU	-	2-25	3.59	2.52	2.52	3.18	5.03	3.86	4.51	3.18	6	0	0	2.65	7.3	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
Laboratory analytes																																								
TSS	mg/L	5	No Water Quality Objective Value	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	12	<5	<5	5	23	12	10	-	-	-	-	-	18	16	22	-	28	33	-	<5	<5	-	-	88	34
Hardness as CaCO3	mg/L	1	No Water Quality Objective Value	27	22	30	27	27	27	27	27	234	9	9	<1	7	<1	<1	<1	13	13	370	-	-	-	-	-	96	234	249	-	200	209	-	451	17	-	-	12	110
Nutrients																																								
Ammonia as N	µg/L	10	13	<10	<10	20	<10	<10	<10	<10	10	<10	<10	20	10	10	40	<10	<10	10	<10	30	-	-	-	-	-	30	90	<10	-	9,230	80	-	110	30	-	-	<10	<10
Nitrite + Nitrate as N (NOx)	µg/L	10	15	<10	<10	20	20	<10	<10	<10	<10	31,200	<10	<10	<10	10	10	50	<10	20	<10	49,300	-	-	-	-	-	4,220	1,560	10,200	-	35,300	19,100	-	64,900	<10	-	-	<10	12,600
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	200	200	200	200	200	200	200	200	5,500	<100	<100	<100	100	200	100	<100	500	700	1,500	-	-	-	-	-	600	800	400	-	16,000	2,000	-	6,500	<100	-	-	<500	3,200
Nitrogen (Total)	µg/L	100	250	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	-	51,300	21,100	-	71,400	<100	-	-	<500	15,800
Reactive Phosphorus	µg/L	1	15	<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
Phosphorus (Total)	µg/L	10	20	<10	10	40	40	30	20	60	10	<10	20	<10	20	10	20	<10	10	20	50	10	-	-	-	-	-	90	20	20	-	20	100	-	<10	<10	-	-	150	40
Inorganics																																								
Cyanide Total	µg/L	4	4	<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
Hydrocarbons																																								
Oil and Grease	mg/L	1	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-	-	-	-	<1.0	<1.0	<1.0	-	<1.0	<1.0	-	<1.0	<1.0	-	-	<1.0	<1.0
Metals																																								
Aluminium (total)	µg/L	5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	295	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aluminium (dissolved)	µg/L	5	27	7	<5	15	14	7	6	15	14	<5	5	5	13	14	26	19	20	41	44	7	-	-	-	-	-	<5	<5	<5	-	6	21	-	<5	<5	-	-	8	<5
Arsenic (total)	µg/L	0.2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	µg/L	0.2	0.8	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
Chromium (III+VI) (total)	µg/L	0.2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (III+VI) (dissolved)	µg/L	0.2	0.01	<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	0.6	-	-	-	-	-	5.6	1.1	1.4	-	2.8	5.1	-	1.9	<0.2	-	-	<0.2	<0.2
Copper (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	µg/L	0.5	1	<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
Iron (total)	µg/L	2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	217	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	µg/L	2	300	15	8	29	30	13	12	29	30	3	13	12	18	22	52	37	40	318	390	<2	-	-	-	-	-	<2	<2	<2	-	<2	<2	-	8	3	-	-	19	<2
Lead (total)	µg/L	0.1	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	µg/L	0.1	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	<0.1	<0.1	<0.1	-	<0.1	<0.1	-	<0.1	<0.1	-	-	<0.1	<0.1
Manganese (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	µg/L	0.5	1,200	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	353	4.9	-	10.1	0.8	-	3.0	0.7	-	-	6.9	2.4
Nickel (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	µg/L	0.5	8	<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
Silver (total)	µg/L	0.01	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	µg/L	0.01	0.02	<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
Zinc (total)	µg/L	1	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	µg/L	1	2.4	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	<1	<1	2	<1	<1	<1	<1	<1	<1	-	-	-	-	-	<1	3	<1	-	<1	<1	-	<1	32	-	-	1	<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 99% of aquatic species ANZECC / ARMCANZ (2018), they are not pollutant limits imposed by EPL 21266.

\- Samples not required

Snowy Hydro 2.0 Main Works

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

Analyte	Unit	Limit of Reporting	Discharge Criteria	EPL 41	EPL 50
Field				**6/10/2025**	**6/10/2025**
pH	**pH Unit**	-	6.5-8.5	7.81	6.86
Electrical Conductivity	**µS/cm**	-	700 (EPL 41) / 200 (EPL 50)	34	90
Oxidation Reduction Potential	**mV**	-	No Water Quality Objective Value	132	67.5
Temperature	**°C**	-	15	17.02	14.9
Dissolved Oxygen	**% saturation**	-	No Water Quality Objective Value	66.5	85.8
Turbidity	**NTU**	-	<25	0	4.09
Laboratory analytes					
Total suspended solids	**mg/L**	5	5/10	<5	<5
Hardness as $CaCO_3$	**mg/L**	1	No Water Quality Objective Value	<1	<1
Nutrients					
Ammonia as N	**µg/L**	10	1000/2000^	<10	<10
Nitrite + Nitrate as N (NOx)	**µg/L**	10	No Water Quality Objective Value	160	120
Kjeldahl Nitrogen Total	**µg/L**	100	No Water Quality Objective Value	300	200
Nitrogen (Total)	**µg/L**	100	1500/3000^	500	300
Reactive Phosphorus	**µg/L**	1	No Water Quality Objective Value	<10	<10
Phosphorus (Total)	**µg/L**	10	300/500^	20	<10
Inorganics					
Cyanide Total	**µg/L**	4	No Water Quality Objective Value	<4	<4
Hydrocarbons					
Oil and Grease	**mg/L**	1	2/5^	<1.0	<1.0
Metals					
Aluminium (dissolved)	**µg/L**	5	55	<5	<5
Arsenic (dissolved)	**µg/L**	0.2	13	<0.2	<0.2
Chromium (III+VI) (dissolved)	**µg/L**	0.2	1	<0.2	0.7
Copper (dissolved)	**µg/L**	0.5	14	<0.5	<0.5
Iron (dissolved)	**µg/L**	2	300	<2	<2
Lead (dissolved)	**µg/L**	0.1	3.4	<0.1	<0.1
Manganese (dissolved)	**µg/L**	0.5	1,900	<0.5	<0.5
Nickel (dissolved)	**µg/L**	0.5	11	<0.5	<0.5
Silver (dissolved)	**µg/L**	0.01	0.05	<0.01	<0.01
Zinc (dissolved)	**µg/L**	1	8	<1	<1
Biological					
Faecal Coliforms	**CFU/100mL**	1	10/100^	<1	<1
Biological Oxygen Demand	**mg/L**	2	3.5/5^	<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	EPL 43 *	EPL 50 ^
	Discharge volume (Megalitres)	
1/10/2025	0.19	0.15
2/10/2025	0.55	0.61
3/10/2025	0.50	0.25
4/10/2025	-	0.02
5/10/2025	0.44	0.33
6/10/2025	0.82	0.34
7/10/2025	-	0.21
8/10/2025	0.29	0.24
9/10/2025	-	0.26
10/10/2025	0.66	0.31
11/10/2025	-	0.01
12/10/2025	0.75	0.33
13/10/2025	1.08	0.17
14/10/2025	0.64	0.34
15/10/2025	-	0.06
16/10/2025	1.04	0.29
17/10/2025	0.86	-
18/10/2025	1.06	0.26
19/10/2025	-	0.26
20/10/2025	1.01	-
21/10/2025	1.03	0.84
22/10/2025	0.95	0.45
23/10/2025	-	0.40
24/10/2025	1.06	0.18
25/10/2025	-	-
26/10/2025	-	0.48
27/10/2025	-	0.436
28/10/2025	-	0.29
29/10/2025	1.10	-
30/10/2025	0.50	0.37
31/10/2025	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

Snowy Hydro 2.0 Main Works EPL Sampling: 01 - 31 November 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 26 September 2025.

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

Groundwater

Groundwater bores at EPL2, EPL4, and EPL25 remain submerged under sediment or water due to location within a drain or spillway, making them unrepresentative. Nutrient concentrations continue to exceed in bores within GF01 and Mainyard areas. Exceedances of heavy metals including arsenic, chromium, copper, iron, nickel, and zinc have been recorded at GF01, Mainyard, and Ravine Bay. Iron exceedances are limited to EPL81, EPL82, and EPL117. Groundwater at Tantangara continues exceedances in nutrients and metals such as copper and zinc.

Reservoir

An increase in faecal coliforms has been observed at EPL10 and EPL11 during this reporting period, likely due to the increasing temperatue and notable green colour within the shallower waterbody and the calm nature of the waterbody during sampling. Resampling will occur in early December.

Surface Water

Seasonal changes, including reduced rainfall and warmer temperatures, resulted in several sites, EPL53, EPL54, EPL55, EPL67, EEPL71, EPL98, EPL120 and EPL122, being dry and unable to be sampled.

Nutrient exceedances were recorded at EPL24 likely due to the ephemeral nature of the waterways and proximity to GF01. Minor elevations in nutrient concentrations were also observed at EPL36 and EPL37, likely influenced by low flows and interaction with hooved stock. Other locations which have exceedances in nutrients include EPL14, EPL16, EPL8, EPL30 and EPL33, however these locations differ frojm the extreme exceedances of EPL24 and EPL52 which could be attributed with the environemental contributers such as seasonal changes as these are natural streams. It has been idenitfied that there were multiple heavy metals that have returned exceedances in different locations across FGJV sites (Lobs Hole, Tantangara, , Marica and Rockforest), these heavy metals being aluminium (filtered), arsenic (filtered), chromium (III + IV), copper (filtered), iron (filtered) and zinc (filtered). These analytes were seen in locations of natural streams such as EPL6, EPL15, EPL16, EPL24, EPL33, EPL36 and EPL37. Leachate storage infrastructure which continues to exhibit the highest nutrient concentrations and electrical conductivity across the monitoring network.

Discharge

Analytical results for EPL41 and EPL50 complied with discharge criteria during the month of November. Volumes discharged between 24/11/2025 and 30/11/2025 are pending due to a reporting systems upgrade in progress.

Snowy Hydro 2.0 Main Works

Monthly EPL Sampling: 01-30 November 2025 - Groundwater

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL1	EPL2	EPL4	EPL25	EPL56	EPL57	EPL58	EPL68	EPL69	EPL70	EPL72
				29/11/2025	Unrepresentative	Unrepresentative	Unrepresentative	25/11/2025	22/11/2025	6/11/2025	2/11/2025	2/11/2025	2/11/2025	2/11/2025
Physiochemical														
pH	pH Unit	-	6.5-8	7.16	-	-	-	7.35	7.92	6.1	6.35	5.77	5.84	6.42
Electrical Conductivity	µS/cm	-	30-350	386	-	-	-	218	213	834	18.6	0.2	18.9	37
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	141	-	-	-	231	198	189	134.9	177.1	193.8	247
Temperature	°C	-	No Water Quality Objective Value	17.79	-	-	-	16.59	15.77	17.53	11.8	12.2	16.2	13.4
Dissolved Oxygen	% saturation	-	No Water Quality Objective Value	77.8	-	-	-	20.5	103.1	24.5	83.3	74.1	72.4	57.2
Turbidity	NTU	-	No Water Quality Objective Value	9.5	-	-	-	8.8	22.6	1.37	51.9	62.59	53.87	57
Laboratory analytes														
TSS	mg/L	5	No Water Quality Objective Value	22	-	-	-	5	<5	<5	12	60	11	14
Hardness as CaCO3	mg/L	1	No Water Quality Objective Value	173	-	-	-	107	96	310	<1	13	24	13
Nutrients														
Ammonia as N	µg/L	10	13	60	-	-	-	10	10	<10	<10	20	<10	<10
Nitrite + Nitrate as N (NOx)	µg/L	10	15	2.310	-	-	-	490	2.820	44.400	1.260	240	910	80
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	500	-	-	-	100	400	3.200	300	200	200	100
Nitrogen (Total)	µg/L	100	250	2.800	-	-	-	600	3.200	47.600	1.600	400	1.100	200
Reactive Phosphorus	µg/L	1	15	<10	-	-	-	<10	<10	<10	<10	<10	30	30
Phosphorus (Total)	µg/L	10	20	10	-	-	-	60	20	20	60	50	40	70
Inorganics														
Cyanide Total	µg/L	4	4	-	-	-	-	<4	<4	<4	<4	<4	<4	<4
Hydrocarbons														
Oil and Grease	mg/L	1	5	-	-	-	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Metals														
Aluminium (total)	µg/L	5	No Water Quality Objective Value	-	-	-	-	191	485	31	194	1.260	527	302
Aluminium (dissolved)	µg/L	5	27	<5	-	-	-	<5	<5	<5	<5	<5	<5	8
Arsenic (total)	µg/L	0.2	No Water Quality Objective Value	-	-	-	-	<0.2	3.7	<0.2	<0.2	0.6	<0.2	0.3
Arsenic (dissolved)	µg/L	0.2	0.8	0.4	-	-	-	<0.2	3.4	<0.2	<0.2	<0.2	<0.2	0.2
Chromium (III+VI) (total)	µg/L	0.2	No Water Quality Objective Value	-	-	-	-	0.7	1.2	0.4	1.2	1.6	0.5	2.6
Chromium (III+VI) (dissolved)	µg/L	0.2	0.01	<0.2	-	-	-	<0.2	<0.2	0.2	<0.2	<0.2	<0.2	<0.2
Copper (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	11.6	32.5	48.2	4.3	10.7	54.9	10.8
Copper (dissolved)	µg/L	0.5	1	88.2	-	-	-	0.6	3.7	9.4	1.2	3.6	12.0	5.5
Iron (total)	µg/L	2	No Water Quality Objective Value	-	-	-	-	237	452	34	175	1.150	310	269
Iron (dissolved)	µg/L	2	300	4	-	-	-	<2	<2	<2	<2	<2	<2	<2
Lead (total)	µg/L	0.1	No Water Quality Objective Value	-	-	-	-	1.8	1.3	3.2	<0.1	1.0	0.2	1.0
Lead (dissolved)	µg/L	0.1	1	<0.1	-	-	-	<0.1	<0.1	0.5	<0.1	<0.1	<0.1	<0.1
Manganese (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	57.4	100	8.4	4.6	59.3	8.7	15.7
Manganese (dissolved)	µg/L	0.5	1.200	196	-	-	-	1.7	57.9	8.2	2.5	2.7	1.0	6.7
Nickel (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	0.9	2.2	3.7	0.9	2.0	<0.5	4.4
Nickel (dissolved)	µg/L	0.5	8	3.1	-	-	-	<0.5	<0.5	3.3	0.6	<0.5	<0.5	2.4
Silver (total)	µg/L	0.01	No Water Quality Objective Value	-	-	-	-	<0.01	<0.01	0.01	0.02	0.02	<0.01	<0.01
Silver (dissolved)	µg/L	0.01	0.02	<0.01	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc (total)	µg/L	1	No Water Quality Objective Value	-	-	-	-	11	6	9	4	5	2	11
Zinc (dissolved)	µg/L	1	2.4	6	-	-	-	1	<1	7	3	2	<1	8

Analyte	EPL80	EPL81	EPL82	EPL83	EPL87	EPL88	EPL89	EPL 90	EPL 91	EPL92	EPL93	EPL94
	2/11/2025	18/11/2025	8/11/2025	18/11/2025	18/11/2025	8/11/2025	8/11/2025	6/11/2025	6/11/2025	6/11/2025	6/11/2025	6/11/2025
Physiochemical												
pH	6.94	6.62	6.69	6.03	7.79	7.09	6.74	5.67	6.48	6.35	6.86	6.37
Electrical Conductivity	924	840	2730	473	754	970	449	346	227	115	220	165
Oxidation Reduction Potential	58	-23	-25	204	234	-93	186	168	82	160	69	43
Temperature	19.3	20.3	19.28	18.17	16.18	20.18	17.99	16.12	16.12	16.3	15.8	15.84
Dissolved Oxygen	25.6	94.6	21.2	101	107	37.8	35.6	30.8	24.5	43.7	14.9	24.9
Turbidity	64.8	262	98.5	35.5	56.5	11.4	21.7	26.7	19.5	333	790	69
Laboratory analytes												
TSS	23	60	134	12	15	17	179	10	14	777	2.300	112
Hardness as CaCO3	387	393	1.190	107	119	176	78	34	111	42	112	78
Nutrients												
Ammonia as N	30	100	90	20	<10	250	<10	<10	10	<10	20	10
Nitrite + Nitrate as N (NOx)	10	20	<10	180	10.800	<10	60	3.640	<10	40	30	<10
Kjeldahl Nitrogen Total	200	300	300	100	1.100	500	300	700	<100	<200	400	<100
Nitrogen (Total)	200	300	300	300	11.900	500	400	4.300	<100	<200	400	<100
Reactive Phosphorus	<10	30	<10	<10	<10	40	<10	<10	<10	<10	<10	<10
Phosphorus (Total)	60	200	40	50	40	80	90	20	30	240	430	60
Inorganics												
Cyanide Total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Hydrocarbons												
Oil and Grease	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Metals												
Aluminium (total)	-	-	-	-	-	-	-	-	-	-	-	-
Aluminium (dissolved)	<5	<5	<5	<5	<5	<5	<5	11	<5	<5	<5	<5
Arsenic (total)	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	1.9	2.6	12.1	1.0	0.3	9.8	<0.2	<0.2	0.7	0.3	2.6	1.5
Chromium (III+VI) (total)	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (III+VI) (dissolved)	<0.2	<0.2	<0.2	0.9	2.2	<0.2	<0.2	0.2	<0.2	<0.2	<0.2	<0.2
Copper (total)	-	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	<0.5	<0.5	<0.5	6.6	1.6	5.6	22.8	14.0	<0.5	<0.5	<0.5	<0.5
Iron (total)	-	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	4	845	1.080	4	<2	20	<2	7	<2	<2	<2	<2
Lead (total)	-	-	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1
Manganese (total)	-	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	213	200	371	14.3	3.1	249	3.9	20.7	553	52.5	167	514
Nickel (total)	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	18.2	1.0	0.7	10.0	7.2	3.5	3.3	7.0	1.4	1.6	1.1	1.2
Silver (total)	-	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc (total)	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	<1	<1	1	1	<1	1	<1	24	3	5	73	4

Analyte	EPL95	EPL96	EPL97	EPL103	EPL104	EPL105	EPL113	EPL114	EPL115	EPL116	EPL117
	6/11/2025	22/11/2025	6/11/2025	8/11/2025	2/11/2025	2/11/2025	1/11/2025	1/11/2025	1/11/2025	1/11/2025	1/11/2025
Physiochemical											
pH	6.21	6.61	6.36	5.68	6.24	5.61	6.46	7.34	7.63	6.4	6.53
Electrical Conductivity	714	406	452	39	58.3	88.1	86	391	387	147	138
Oxidation Reduction Potential	182	212	178	217	139.6	171.2	242	218	179	244	19
Temperature	18.96	16.4	17.31	14.24	12	11.7	16.98	18.83	17.09	19.91	19.39
Dissolved Oxygen	26.5	98.2	9.6	65.2	62	64.9	39	34.1	30.2	57.9	25.9
Turbidity	2.59	986	16.4	9.6	50.93	52.49	135	24.1	61.5	121	14.2
Laboratory analytes											
TSS	<5	5.160	36	14	<5	<5	55	40	31	380	444
Hardness as CaCO3	12	205	146	2	13	37	22	179	158	45	39
Nutrients											
Ammonia as N	<10	20	<10	<10	<10	20	10	10	50	<10	20
Nitrite + Nitrate as N (NOx)	41.900	28.100	680	870	490	2.370	30	30	<10	100	10
Kjeldahl Nitrogen Total	<100	6.300	300	<100	400	600	400	300	200	300	100
Nitrogen (Total)	41.900	34.400	1.000	900	900	3.000	400	300	200	400	100
Reactive Phosphorus	<10	<10	<10	10	<10	<10	<10	<10	<10	20	50
Phosphorus (Total)	20	2,050	30	20	50	50	70	60	50	40	310
Inorganics											
Cyanide Total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Hydrocarbons											
Oil and Grease	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Metals											
Aluminium (total)	-	-	-	-	187	84	-	-	-	-	-
Aluminium (dissolved)	<5	<5	<5	<5	<5	11	16	<5	<5	<5	<5
Arsenic (total)	-	-	-	-	<0.2	<0.2	-	-	-	-	-
Arsenic (dissolved)	1.1	<0.2	<0.2	<0.2	<0.2	<0.2	0.4	0.5	0.4	0.5	1.3
Chromium (III+VI) (total)	-	-	-	-	0.4	0.9	-	-	-	-	-
Chromium (III+VI) (dissolved)	<0.2	<0.2	<0.2	0.2	0.2	<0.2	<0.2	0.7	0.6	0.8	<0.2
Copper (total)	-	-	-	-	1.5	5.6	-	-	-	-	-
Copper (dissolved)	399	<0.5	<0.5	8.1	0.7	3.7	128	1.4	<0.5	28.1	<0.5
Iron (total)	-	-	-	-	89	70	-	-	-	-	-
Iron (dissolved)	<2	<2	<2	<2	<2	3	22	<2	<2	<2	1.050
Lead (total)	-	-	-	-	<0.1	<0.1	-	-	-	-	-
Lead (dissolved)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Manganese (total)	-	-	-	-	4.3	27.3	-	-	-	-	-
Manganese (dissolved)	413	3.5	301	1.7	3.2	25.8	25.8	4.6	172	23.2	408
Nickel (total)	-	-	-	-	0.5	6.3	-	-	-	-	-
Nickel (dissolved)	15.5	2.4	4.3	<0.5	<0.5	6.1	0.5	0.9	1.7	2.6	2.0
Silver (total)	-	-	-	-	<0.01	0.91	-	-	-	-	-
Silver (dissolved)	<0.01	<0.01	<0.01	<0.01	<0.01	0.21	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc (total)	-	-	-	-	3	99	-	-	-	-	-
Zinc (dissolved)	49	1	70	1	3	114	3	3	<1	6	<1

\- Sample not required at this location.

Snowy Hydro 2.0 Main Works

Monthly EPL Sampling: 01-30 November 2025 - Talbingo and Tantangara Reservoir

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL10	EPL11	EPL28	EPL29	EPL32	EPL38	EPL39	EPL40	EPL46	EPL51	EPL107	EPL108	EPL109
Field				19/11/2025	19/11/2025	23/11/2025	23/11/2025	23/11/2025	23/11/2025	8/11/2025	23/11/2025	23/11/2025	23/11/2025	19/11/2025	19/11/2025	19/11/2025
pH	pH Unit	-	6.5-8	7.96	7.89	7.71	7.43	7.48	7.5	6.66	7.86	7.36	7.4	7.83	7.81	7.79
Electrical Conductivity	µS/cm	-	20-30	50	45	14	11	11	11	18	13	12	11	31	31	31
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	167	167	196	217	216	211	193	189	221	219	164	160	150
Temperature	°C	-	No Water Quality Objective Value	19.54	19.64	14.2	14.5	14.01	13.95	15.03	14.26	14.34	14.21	18.23	18.27	17.95
Dissolved Oxygen	% saturation	-	90-110	64.5	96.9	91.7	77.8	78.8	81.7	107.1	78.2	76.2	77.4	99.5	107.2	94.9
Turbidity	NTU	-	1-20	1.24	1.24	5.6	5	5.9	14.0	9.1	3.7	7.3	6.5	1.35	1.17	1.25
Laboratory analytes																
Total suspended solids	mg/L	5	No Water Quality Objective Value	<5	<5	<5	<5	<5	<5	<5	<5	<5	2	<5	<5	<5
Hardness as $CaCO_3$	mg/L	1	No Water Quality Objective Value	22	19	5	2	2	2	<1	<1	5	<5	10	10	7
Nutrients																
Ammonia as N	µg/L	10	10	<10	10	<10	60	<10	40	<10	<10	40	40	<10	<10	<10
Nitrite + Nitrate as N (NOx)	µg/L	10	10	<10	<10	<10	<10	<10	<10	10	<10	<10	<10	<10	<10	<10
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	100	200	300	300	300	200	<100	200	200	300	100	<100	<100
Nitrogen (Total)	µg/L	100	350	100	200	300	300	300	200	<100	200	200	300	100	<100	<100
Reactive Phosphorus	µg/L	1	5	<10	<10	<10	<10	<10	<10	30	<10	<10	<10	<10	<10	<10
Phosphorus (Total)	µg/L	10	10	50	50	20	20	10	10	10	20	<10	30	50	40	30
Inorganics																
Cyanide Total	µg/L	4	7	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Hydrocarbons																
Oil and Grease	mg/L	1	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Metals																
Aluminium (dissolved)	µg/L	5	55	<5	<5	24	32	31	34	17	31	39	31	<5	<5	<5
Arsenic (dissolved)	µg/L	0.2	13	0.3	0.3	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	<0.2	0.3	0.2	<0.2
Chromium (III+VI) (dissolved)	µg/L	0.2	1	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
Copper (dissolved)	µg/L	0.5	14	<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
Iron (dissolved)	µg/L	2	300	15	14	101	131	132	127	53	116	142	131	10	8	8
Lead (dissolved)	µg/L	0.1	3.4	<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
Manganese (dissolved)	µg/L	0.5	1,900	<0.5	0.6	1.4	1.8	1.8	1.7	2.5	1.8	2.0	1.8	0.6	<0.5	<0.5
Nickel (dissolved)	µg/L	0.5	11	<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
Silver (dissolved)	µg/L	0.01	0.05	<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
Zinc (dissolved)	µg/L	1	8	<1	<1	<1	<1	<1	7	<1	<1	<1	<1	<1	<1	<1
Biological																
Faecal Coliforms	CFU/100mL	1	10/100^	120	29	1	-	-	-	-	-	-	1	-	-	-
Biochemical Oxygen Demand	mg/L	2	1/5^	<2	<2	<2	-	-	-	-	-	-	<2	-	-	-

^ 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 November 2025 - Surface Water

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL5	EPL6	EPL8	EPL9	EPL12	EPL14	EPL15	EPL16	EPL24	EPL26	EPL27	EPL30	EPL31	EPL33	EPL34	EPL35	EPL36	EPL37	EPL52	EPL53	EPL54	EPL55	EPL67	EPL71	EPL84	EPL85	EPL86	EPL98	EPL99	EPL100	EPL101	EPL106	EPL110	EPL118	EPL119	EPL120	EPL122
Field				22/11/2025	22/11/2025	22/11/2025	22/11/2025	22/11/2025	22/11/2025	22/11/2025	22/11/2025	6/11/2025	7/11/2025	7/11/2025	8/11/2025	8/11/2025	8/11/2025	8/11/2025	8/11/2025	24/11/2025	24/11/2025	6/11/2025	Dry	Dry	Dry	Dry	Dry	2/11/2025	2/11/2025	2/11/2025	Dry	7/11/2025	7/11/2025	7/11/2025	1/11/2025	1/11/2025	14/11/2025	1/11/2025	Dry	Dry
pH	-	-	6.5-8	8.03	8.04	8.12	7.99	8.15	8.16	8.18	8.3	6.95	7.97	7.9	6.14	6.74	5.62	6.37	6.27	6.94	7.13	8.72	-	-	-	-	-	8	9.65	8.71	-	11.2	9.17	9.27	8.32	7.25	9.06	8.5	-	-
Electrical Conductivity	µS/cm	-	30-350	88	72	95	89	87	86	84	88	718.00	31	29	30	24	25	15	14.0	34	38	1,030.00	-	-	-	-	-	949.00	882	1,050.00	-	428	590	646	1,800.00	59	2870	758	-	-
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	170	192	181	193	184	195	197	179	202	209	209	253	222	338	262	255	197	187	40	-	-	-	-	-	218	170	189	-	33	120	107	92	232	194	173	-	-
Temperature	°C	-	No Water Quality Objective Value	13.37	13.12	17.74	16.23	13.96	15.3	15.38	17.37	14.73	11.18	10.95	11.57	11.07	14.98	12.85	12.29	23.77	23.19	22.71	-	-	-	-	-	18.26	19.65	19.42	-	12.8	12.8	13.24	23.36	15.45	14.58	19.87	-	-
Dissolved Oxygen	% saturation	-	90-110	104.2	78.1	89.2	70.9	74.7	97.7	78.6	77.5	80.7	64	95.5	111	136	112.7	134.4	107.5	58.1	70.2	73.8	-	-	-	-	-	111.9	157.7	101.5	-	78.9	58.7	92.2	88	92.4	96.6	82.1	-	-
Turbidity	NTU	-	2-25	25.2	5.9	3	3.9	4.4	3.8	5.7	1.2	1.9	1.28	1.35	12.3	12.9	4	11.8	6.6	52.5	51.4	73.4	-	-	-	-	-	86.8	59.70	9.8	-	58.5	18.4	45.4	10.3	6	3.2	3.1	-	-
Laboratory analytes																																								
TSS	mg/L	5	No Water Quality Objective Value	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	11	13	<5	<5	<5	<5	<5	10	-	-	-	-	-	24	16	11	-	<5	6	12	62	<5	12	21	-	-
Hardness as CaCO3	mg/L	1	No Water Quality Objective Value	49	41	47	47	49	47	47	49	195	12	12	9	7	2	<1	<1	11	13	349	-	-	-	-	-	119	164	285	-	98	153	169	467	17	905	274	-	-
Nutrients																																								
Ammonia as N	µg/L	10	13	10	<10	10	20	<10	20	10	20	<10	<10	<10	<10	<10	<10	<10	<10	30	20	10	-	-	-	-	-	10	<10	30	-	500	10	10	130	<10	<10	<10	-	-
Nitrite + Nitrate as N (NOx)	µg/L	10	15	10	10	60	10	10	10	20	20	23,600	<10	<10	20	<10	10	<10	<10	60	30	47,200	-	-	-	-	-	5,710	2,300	9,460	-	6,360	14,300	15,700	75,300	<10	2,230	20	-	-
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	<100	<100	<100	<100	<100	100	100	<100	800	<100	<100	200	<100	400	<100	<100	400	400	3,600	-	-	-	-	-	1,600	1,300	500	-	1,600	3,300	1,700	14,300	100	700	200	-	-
Nitrogen (Total)	µg/L	100	250	<100	<100	<100	<100	<100	100	100	<100	24,400	<100	<100	200	<100	400	<100	<100	500	400	50,800	-	-	-	-	-	7,300	3,600	10,000	-	8,000	17,600	17,400	89,600	100	2,900	200	-	-
Reactive Phosphorus	µg/L	1	15	<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	-	-
Phosphorus (Total)	µg/L	10	20	<10	50	20	10	<10	20	20	20	10	<10	<10	20	<10	20	20	<10	50	60	40	-	-	-	-	-	70	60	40	-	50	30	40	30	60	40	40	-	-
Inorganics																																								
Cyanide Total	µg/L	4	4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	-	-	-	-	-	<4	<4	<4	-	<4	<4	<4	<4	<4	<4	<4	-	-
Hydrocarbons																																								
Oil and Grease	mg/L	1	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-	-	-	-	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-
Metals																																								
Aluminium (total)	µg/L	5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aluminium (dissolved)	µg/L	5	27	<5	<5	<5	<5	<5	<5	<5	<5	13	6	6	17	19	41	18	18	25	34	13	-	-	-	-	-	6	24	<5	-	18	18	17	<5	<5	<5	<5	-	-
Arsenic (total)	µg/L	0.2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	µg/L	0.2	0.8	0.5	0.2	0.4	0.5	0.4	0.4	0.4	0.5	0.3	<0.2	<0.2	<0.2	<0.2	0.2	0.2	<0.2	0.6	0.7	2.9	-	-	-	-	-	5.0	4.0	2.0	-	0.6	3.3	5.2	4.2	0.8	1.3	1.8	-	-
Chromium (III+VI) (total)	µg/L	0.2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (III+VI) (dissolved)	µg/L	0.2	0.01	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.0	-	-	-	-	-	2.9	9.2	1.5	-	28.4	8.8	16.5	1.8	<0.2	1.9	0.5	-	-
Copper (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	µg/L	0.5	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	1.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.3	1.2	<0.5	-	-	-	-	-	1.6	0.7	1.5	-	<0.5	0.6	0.9	0.9	<0.5	<0.5	<0.5	-	-
Iron (total)	µg/L	2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	568	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	µg/L	2	300	8	8	9	10	8	8	8	<9	42	14	14	33	27	138	57	56	386	386	<2	-	-	-	-	-	<2	<2	<2	-	<2	<2	<2	<2	3	<2	<2	-	-
Lead (total)	µg/L	0.1	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	µg/L	0.1	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<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	-	-
Manganese (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	µg/L	0.5	1,200	0.7	2.0	1.3	1.9	0.6	0.9	0.9	<1.2	70.5	1.2	1.0	2.6	1.7	27.2	2.4	2.2	32.9	2.3	<0.5	-	-	-	-	-	9.2	<0.5	<0.5	-	<0.5	0.5	1.4	3.5	1.0	<0.5	45.6	-	-
Nickel (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	µg/L	0.5	8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	1.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.9	0.8	<0.5	-	-	-	-	-	2.5	1.0	0.8	-	<0.5	0.7	1.2	2.9	<0.5	7.7	1.9	-	-
Silver (total)	µg/L	0.01	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	µg/L	0.01	0.02	<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	<0.01	-	-
Zinc (total)	µg/L	1	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	µg/L	1	2.4	<1	<1	4	<1	<1	<1	<1	1	3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	<1	<1	<1	-	<1	<1	<1	<1	33	<1	<1	-	-

- Samples not required

Snowy Hydro 2.0 Main Works

Monthly EPL Sampling: 01-30 November 2025 - Discharge Water

Analyte	Unit	Limit of Reporting	Discharge Criteria	EPL 41	EPL 50
Field				**09 Nov 2025**	**09 Nov 2025**
pH	**pH Unit**	-	6.5-8.5	7.47	7.95
Electrical Conductivity	**µS/cm**	-	700 (EPL 41) / 200 (EPL 50)	47	80
Oxidation Reduction Potential	**mV**	-	No Water Quality Objective Value	210	256
Temperature	**°C**	-	15	18.5	16.2
Dissolved Oxygen	**% saturation**	-	No Water Quality Objective Value	86.6	109.9
Turbidity	**NTU**	-	<25	0.95	0.17
Laboratory analytes					
Total suspended solids	**mg/L**	5	5/10^	<5	<5
Hardness as $CaCO_3$	**mg/L**	1	No Water Quality Objective Value	<1	<1
Nutrients					
Ammonia as N	**µg/L**	10	1000/2000^	<10	30
Nitrite + Nitrate as N (NOx)	**µg/L**	10	No Water Quality Objective Value	150	60
Kjeldahl Nitrogen Total	**µg/L**	100	No Water Quality Objective Value	<100	200
Nitrogen (Total)	**µg/L**	100	1500/3000^	200	300
Reactive Phosphorus	**µg/L**	1	No Water Quality Objective Value	<10	<10
Phosphorus (Total)	**µg/L**	10	300/500^	30	40
Inorganics					
Cyanide Total	**µg/L**	4	No Water Quality Objective Value	<4	<4
Hydrocarbons					
Oil and Grease	**mg/L**	1	2/5^	<1.0	<1.0
Metals					
Aluminium (dissolved)	**µg/L**	5	55	<5	<5
Arsenic (dissolved)	**µg/L**	0.2	13	<0.2	<0.2
Chromium (III+VI) (dissolved)	**µg/L**	0.2	1	<0.2	<0.2
Copper (dissolved)	**µg/L**	0.5	14	<0.5	<0.5
Iron (dissolved)	**µg/L**	2	300	<2	<2
Lead (dissolved)	**µg/L**	0.1	3.4	<0.1	<0.1
Manganese (dissolved)	**µg/L**	0.5	1,900	<0.5	<0.5
Nickel (dissolved)	**µg/L**	0.5	11	<0.5	<0.5
Silver (dissolved)	**µg/L**	0.01	0.05	<0.01	<0.01
Zinc (dissolved)	**µg/L**	1	8	<1	<1
Biological					
Faecal Coliforms	**CFU/100mL**	1	10/100^	<1	<1
Biological Oxygen Demand	**mg/L**	2	3.5/5^	<2	<2

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

^ 90 Percentile concentration limit/100 Percentile limit

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

Date	EPL 43 *	EPL 50 ^
	Discharge volume (Megalitres)	
1/11/2025	1.02	0.52
2/11/2025	0.76	-
3/11/2025	-	0.25
4/11/2025	1.20	0.19
5/11/2025	0.81	0.27
6/11/2025	1.02	-
7/11/2025	1.00	0.57
8/11/2025	0.98	0.24
9/11/2025	0.19	-
10/11/2025	0.91	0.46
11/11/2025	-	0.14
12/11/2025	0.77	-
13/11/2025	0.70	0.14
14/11/2025	0.56	0.35
15/11/2025	0.94	0.18
16/11/2025	-	0.22
17/11/2025	0.43	0.32
18/11/2025	0.88	-
19/11/2025	0.66	-
20/11/2025	0.72	0.48
21/11/2025	0.65	-
22/11/2025	0.54	-
23/11/2025	0.70	0.27
24/11/2025	*	*
25/11/2025	*	*
26/11/2025	*	*
27/11/2025	*	*
28/11/2025	*	*
29/11/2025	*	*
30/11/2025	*	*

- 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.
* Volumes discharged between 24/11/2025 and 30/11/2025 are pending due to a reporting systems upgrade in progress.

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

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

Monthly water sampling and analysis is performed as part of the Snowy 2.0 Environmental Protection Licence No 21266 - Variation 26 September 2025.

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

Groundwater

Nutrient concentrations in addition to expected heavy metals were observed to remain outside the WQO's in both above and below gradient locations within Mainyard and GF01. Ravine Bay locations reported consistent nutrient results across the majority of the emplacement area (upgradient and downgradient locations) with the exception of EPL117 whereby Phosphorous concentrations were reported as 410 mg/L which is considered above the WQO's. Groundwater quality within the Tantangara PSE remained outside WQO's for nutrients and select heavy metals such as copper and zinc.

Reservoirs

Increased faecal coliforms presence was observed at EPL10 and EPL11 during this reporting period (120 cfu / 100 ml - 1900 cfu / 100 ml and 37 cfu / 100 ml - 5900 cfu /100 ml respectively), this is a trend observed over previous seasons likely due to the increasing temperature, notable green colour within the shallower water and the calm nature of the waterbody during sampling retesting is underway. Reservoir levels have fluctuated during the month. Tantangara reservoir reported a considerable temperature difference when compared to Talbingo, possibly reflecting the different climatic conditions influencing this water body.

Surface Water

Seasonal changes, including reduced rainfall and warmer temperatures, resulted in a number of sites being dry and unable to be sampled, EPL52, EPL53, EPL54, EPL55, EPL67, EPL71, EPL98, EPL110, EPL120 and EPL122. Minor elevations in nutrient concentrations were also observed at EPL36, likely influenced by low flows and interaction with hooved stock.

Leachate storage infrastructure continues to exhibit the highest nutrient concentrations and electrical conductivity across the monitoring network.

Discharge

Analytical results at EPL50 complied with discharge criteria during the month of December. EPL41 results indicate a turbidity reading of 26.4 NTU which is marginally outside of the discharge criteria being <25 NTU. All other results are within WQO criteria. It is noted the discharge ITP reported NTU within criteria for discharge.

Snowy Hydro 2.0 Main Works

Monthly EPL Sampling: 01-31 December 2025 - Groundwater

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL56	EPL57	EPL58	EPL68	EPL69	EPL70	EPL72	EPL80	EPL81	EPL82
				15-Dec-25	15-Dec-25	15-Dec-25	7-Dec-25	7-Dec-25	7-Dec-25	5-Dec-25	1-Dec-25	1-Dec-25	2-Dec-25
Physiochemical													
pH	pH Unit	-	6.5-8	7.54	8.05	6.08	5.87	6.17	6.69	6.62	6.61	6.9	6.73
Electrical Conductivity	µS/cm	-	30-350	234	256	815	9	23	61	94	746	912	287
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	89	99	199	316	307	290	229	-6	-2	-2
Temperature	°C	-	No Water Quality Objective Value	16.84	16.99	17.45	12.2	12.07	13.25	12.6	15.36	15.67	16.97
Dissolved Oxygen	% saturation	-	No Water Quality Objective Value	61.6	33.7	8.6	58	50.8	46.7	50.3	23.1	17.8	18.5
Turbidity	NTU	-	No Water Quality Objective Value	4.3	35	3.4	14.6	162	20	17	48.1	5.2	39.4
Laboratory analytes													
TSS	mg/L	5	No Water Quality Objective Value	<5	<5	<5	<5	262	5	12	18	9	84
Hardness as $CaCO_3$	mg/L	1	No Water Quality Objective Value	124	121	296	<1	2	13	11	313	386	1.100
Nutrients													
Ammonia as N	µg/L	10	13	<10	30	<10	<10	<10	<10	10	60	80	90
Nitrite + Nitrate as N (NOx)	µg/L	10	15	460	3.300	47.900	1.010	160	820	170	<10	40	<10
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	<100	500	4.600	200	200	200	100	100	200	100
Nitrogen (Total)	µg/L	100	250	500	3.800	52.500	1.200	400	1.000	300	100	200	100
Reactive Phosphorus	µg/L	1	15	<10	20	10	<10	<10	20	20	<10	<10	<10
Phosphorus (Total)	µg/L	10	20	30	100	30	<10	140	60	50	100	60	50
Inorganics													
Cyanide Total	µg/L	4	4	<4	<4	<4	<4	<4	<4	27	<4	<4	<4
Hydrocarbons													
Oil and Grease	mg/L	1	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Metals													
Aluminium (total)	µg/L	5	No Water Quality Objective Value	28	249	70	162	4.740	546	282	-	-	-
Aluminium (dissolved)	µg/L	5	27	<5	<5	<5	<5	<5	<5	5	<5	<5	<5
Arsenic (total)	µg/L	0.2	No Water Quality Objective Value	<0.2	3.5	<0.2	<0.2	1.7	<0.2	-	-	-	-
Arsenic (dissolved)	µg/L	0.2	0.8	<0.2	3.2	<0.2	<0.2	<0.2	<0.2	<0.2	1.9	4.5	14.3
Chromium (III+VI) (total)	µg/L	0.2	No Water Quality Objective Value	<0.2	1.0	0.3	0.2	5.9	0.6	-	-	-	-
Chromium (III+VI) (dissolved)	µg/L	0.2	0.01	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Copper (total)	µg/L	0.5	No Water Quality Objective Value	2.8	85.6	25.4	1.8	24.3	20.2	-	-	-	-
Copper (dissolved)	µg/L	0.5	1	<0.5	7.4	5.1	<0.5	1.1	3.7	1.7	<0.5	<0.5	<0.5
Iron (total)	µg/L	2	No Water Quality Objective Value	29	259	49	99	4.760	239	-	-	-	-
Iron (dissolved)	µg/L	2	300	<2	<2	<2	<2	<2	<2	<2	<2	240	1.620
Lead (total)	µg/L	0.1	No Water Quality Objective Value	0.4	1.1	4.4	<0.1	3.5	0.1	-	-	-	-
Lead (dissolved)	µg/L	0.1	1	<0.1	<0.1	0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Manganese (total)	µg/L	0.5	No Water Quality Objective Value	12.3	99.9	18.9	3.0	218	5.1	-	-	-	-
Manganese (dissolved)	µg/L	0.5	1.200	1.9	61.7	17.6	1.9	2.9	1.8	6.1	241	214	386
Nickel (total)	µg/L	0.5	No Water Quality Objective Value	<0.5	1.4	4.3	0.5	8.9	0.6	-	-	-	-
Nickel (dissolved)	µg/L	0.5	8	<0.5	<0.5	3.5	<0.5	<0.5	<0.5	1.6	17.7	2.6	0.7
Silver (total)	µg/L	0.01	No Water Quality Objective Value	<0.01	<0.01	0.02	<0.01	0.03	<0.01	-	-	-	-
Silver (dissolved)	µg/L	0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc (total)	µg/L	1	No Water Quality Objective Value	7	5	10	3	17	3	-	-	-	-
Zinc (dissolved)	µg/L	1	2.4	1	<1	5	1	<1	<1	4	<1	<1	2

Analyte	EPL83	EPL87	EPL88	EPL89	EPL 90	EPL 91	EPL92	EPL93	EPL94	EPL95
	2-Dec-25	2-Dec-25	1-Dec-25	1-Dec-25	15-Dec-25	15-Dec-25	15-Dec-25	15-Dec-25	15-Dec-25	15-Dec-25
Physiochemical										
pH	6.43	9.73	6.71	6.81	5.86	7.11	6.3	6.9	6.65	6.01
Electrical Conductivity	490	854	799	391	51	258	104	219	171	900
Oxidation Reduction Potential	194	84	-91	122	238	196	215	135	89	203
Temperature	15	14.97	14.15	13.58	16.65	20.21	16.54	16.36	16.75	17.34
Dissolved Oxygen	13.6	7.5	38.9	34.2	33.7	58.9	41.4	17.3	14.9	38.4
Turbidity	14	58.2	15.6	107	2.8	22.3	360	120	44.2	3.9
Laboratory analytes										
TSS	70	26	6	244	<5	17	2.340	777	59	<5
Hardness as $CaCO_3$	56	103	132	64	16	128	62	112	84	322
Nutrients										
Ammonia as N	<10	<10	200	<10	40	40	<10	10	<10	50
Nitrite + Nitrate as N (NOx)	20	11.200	<10	50	140	10	40	30	<10	42.400
Kjeldahl Nitrogen Total	100	800	300	100	<100	<100	400	700	<100	3.600
Nitrogen (Total)	100	12.000	300	200	100	<100	400	700	<100	46.000
Reactive Phosphorus	<10	<10	20	<10	10	<10	10	10	<10	40
Phosphorus (Total)	90	210	130	90	60	70	450	1.020	60	60
Inorganics										
Cyanide Total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Hydrocarbons										
Oil and Grease	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Metals										
Aluminium (total)	-	-	-	-	-	-	-	-	-	-
Aluminium (dissolved)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Arsenic (total)	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	3.8	<0.2	12.7	<0.2	<0.2	0.8	0.4	0.9	0.9	1.0
Chromium (III+VI) (total)	-	-	-	-	-	-	-	-	-	-
Chromium (III+VI) (dissolved)	1.1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Copper (total)	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	8.2	1.8	1.0	6.8	0.8	<0.5	<0.5	<0.5	<0.5	41.5
Iron (total)	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	10	<2	14	<2	<2	<2	<2	<2	2	<2
Lead (total)	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1
Manganese (total)	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	104	38.1	279	25.2	2.2	542	14.6	18.9	282	387
Nickel (total)	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	14.6	57.6	3.2	2.4	1.3	0.9	<0.5	<0.5	0.7	10.7
Silver (total)	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc (total)	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	4	<1	<1	<1	3	2	2	<1	2	29

Analyte	EPL96	EPL97	EPL103	EPL104	EPL105	EPL113	EPL114	EPL115	EPL116	EPL117
	15-Dec-25	15-Dec-25	7-Dec-25	7-Dec-25	7-Dec-25	1-Dec-25	5-Dec-25	1-Dec-25	1-Dec-25	1-Dec-25
Physiochemical										
pH	7.1	6.41	6.41	6.28	5.83	6.6	7.47	7.52	6.65	6.74
Electrical Conductivity	522	488	488	41	181	113	388	325	122	131
Oxidation Reduction Potential	148	193	193	305	321	276	163	243	285	149
Temperature	18.21	17.47	17.47	12.67	12.26	12.38	22.6	12.29	12.71	12.63
Dissolved Oxygen	23.7	17.4	17.4	37.4	47.7	30	26.5	23	63.6	40.1
Turbidity	1000	19.2	19.2	7.1	1.2	37.2	7.6	107	377	56.6
Laboratory analytes										
TSS	4.770	124	<5	<5	<5	106	23	78	59	297
Hardness as $CaCO_3$	203	166	<1	13	57	29	184	142	36	39
Nutrients										
Ammonia as N	30	10	<10	<10	<10	10	20	20	50	30
Nitrite + Nitrate as N (NOx)	26.900	460	860	390	3.210	20	40	<10	80	<10
Kjeldahl Nitrogen Total	3.900	<100	200	200	500	300	100	200	100	100
Nitrogen (Total)	30.800	500	1.100	600	3.700	300	100	200	200	100
Reactive Phosphorus	<10	<10	10	<10	<10	<10	<10	<10	<10	20
Phosphorus (Total)	540	160	30	<10	60	70	<10	20	40	410
Inorganics										
Cyanide Total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Hydrocarbons										
Oil and Grease	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Metals										
Aluminium (total)	-	-	-	-	-	-	-	-	-	-
Aluminium (dissolved)	<5	<5	<5	<5	6	9	<5	<5	<5	<5
Arsenic (total)	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	<0.2	0.2	<0.2	<0.2	<0.2	0.3	0.4	0.3	0.4	1.0
Chromium (III+VI) (total)	-	-	-	-	-	-	-	-	-	-
Chromium (III+VI) (dissolved)	<0.2	<0.2	<0.2	0.3	0.4	<0.2	0.6	<0.2	<0.2	<0.2
Copper (total)	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	1.0	<0.5	5.1	0.7	1.0	53.6	0.8	<0.5	25.6	<0.5
Iron (total)	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	<2	<2	<2	<2	<2	11	<2	<2	<2	254
Lead (total)	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Manganese (total)	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	13.9	363	0.7	10.3	18.9	23.1	0.7	155	16.5	361
Nickel (total)	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	2.9	3.0	<0.5	<0.5	7.3	<0.5	<0.5	1.1	1.1	1.7
Silver (total)	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc (total)	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	<1	33	<1	2	30	2	3	<1	4	<1

\- Sample not required at this location.

Snowy Hydro 2.0 Main Works

Monthly EPL Sampling: 01-31 December 2025 - Talbingo and Tantangara Reservoir

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL10	EPL11	EPL28	EPL29	EPL32	EPL38	EPL39	EPL40	EPL51	EPL107	EPL108	EPL109
Field				10-Dec-25	10-Dec-25	3-Dec-25	3-Dec-25	3-Dec-25	3-Dec-25	14-Dec-25	3-Dec-25	3-Dec-25	10-Dec-25	10-Dec-25	10-Dec-25
pH	pH Unit	-	6.5-8	8.66	8.62	7.28	7.22	7.24	7.22	8.11	7.35	7.23	8.77	8.73	8.71
Electrical Conductivity	µS/cm	-	20-30	69	56	21	19.9	19.8	19.8	19	22	20	40	32	25
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	217	217	127.8	139.1	129.9	140.5	176	119.7	144	236	229	227
Temperature	°C	-	No Water Quality Objective Value	22.46	21.9	13.5	15	15	14.9	14.73	13.6	14.9	21	20.69	20.03
Dissolved Oxygen	% saturation	-	90-110	98.4	63.7	91.4	89.1	88.5	90.3	86.3	91.7	88.2	70	77.1	85.5
Turbidity	NTU	-	1-20	1.21	1.1	53.9	52.5	52.8	52.4	7.6	54.5	52.7	0.91	0.96	1.9
Laboratory analytes															
Total suspended solids	mg/L	5	No Water Quality Objective Value	<5	<5	6	7	<5	<5	40	5	<5	<5	<5	<5
Hardness as $CaCO_3$	mg/L	1	No Water Quality Objective Value	36	24	7	2	2	7	4	9	2	17	14	12
Nutrients															
Ammonia as N	µg/L	10	10	190	<10	120	<10	<10	<10	70	50	<10	<10	20	70
Nitrite + Nitrate as N (NOx)	µg/L	10	10	<10	<10	10	<10	<10	<10	30	<10	<10	<10	<10	<10
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	200	200	300	200	200	300	200	300	200	200	<100	<100
Nitrogen (Total)	µg/L	100	350	200	200	300	200	200	300	200	300	200	200	<100	<100
Reactive Phosphorus	µg/L	1	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Phosphorus (Total)	µg/L	10	10	60	<10	40	50	<10	40	40	80	30	<10	<10	<10
Inorganics															
Cyanide Total	µg/L	4	7	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Hydrocarbons															
Oil and Grease	mg/L	1	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Metals															
Aluminium (dissolved)	µg/L	5	55	<5	<5	37	38	40	38	17	35	38	<5	<5	<5
Arsenic (dissolved)	µg/L	0.2	13	0.4	0.3	0.2	<0.2	0.2	<0.2	<0.2	<0.2	0.2	0.2	0.2	<0.2
Chromium (III+VI) (dissolved)	µg/L	0.2	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Copper (dissolved)	µg/L	0.5	1.4	<0.5	<0.5	<0.5	2.4	<0.5	2.2	3.6	1.6	<0.5	<0.5	<0.5	<0.5
Iron (dissolved)	µg/L	2	300	21	13	138	122	128	134	75	146	121	6	6	4
Lead (dissolved)	µg/L	0.1	3.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Manganese (dissolved)	µg/L	0.5	1,900	<0.5	<0.5	3.1	1.4	2.1	1.8	2.8	6.3	1.5	<0.5	<0.5	0.9
Nickel (dissolved)	µg/L	0.5	11	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Silver (dissolved)	µg/L	0.01	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.03
Zinc (dissolved)	µg/L	1	8	<1	<1	<1	<1	<1	<1	<1	4	<1	<1	<1	<1
Biological															
Faecal Coliforms	CFU/100mL	1	10/100^	1,900	5,900	3	-	-	-	-	-	<2	-	-	-
Biochemical Oxygen Demand	mg/L	2	1/5^	2	2	<2	-	-	-	-	-	8	-	-	-

^ 90th percentile concentration limits / 100 percentile concentration limits

- Sample not required at this location.

Snowy Hydro 2.0 Main Works

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

Analyte	Unit	Limit of Reporting	Water Quality Objective Value*	EPL5	EPL6	EPL8	EPL9	EPL12	EPL14	EPL15	EPL16	EPL24	EPL26	EPL27	EPL30	EPL31	EPL33	EPL34	EPL35	EPL36	EPL37	EPL52	EPL53	EPL54	EPL55	EPL67	EPL71	EPL84	EPL85	EPL86	EPL98	EPL99	EPL100	EPL101	EPL106	EPL110	EPL118	EPL119	EPL120	EPL122
Field				1-Dec-25	1-Dec-25	1-Dec-25	1-Dec-25	1-Dec-25	1-Dec-25	1-Dec-25	1-Dec-25	DRY	5-Dec-25	5-Dec-25	7-Dec-25	7-Dec-25	7-Dec-25	7-Dec-25	7-Dec-25	6-Dec-25	6-Dec-25	DRY	Dry	Dry	Dry	Dry	Dry	Dry	2-Dec-25	1-Dec-25	1-Dec-25	Dry	5-Dec-25	5-Dec-25	5-Dec-25	1-Dec-25	DRY	18-Dec-25	1-Dec-25	Dry	Dry
pH	-	-	6.5-8	8.44	8.14	8.16	8.17	8.29	8.23	8.19	8.26	-	8.84	8.44	7.88	7.9	7.72	8.05	7.95	6.97	7.97	-	-	-	-	-	-	9.1	8.72	8.26	-	11.5	9.44	9.69	8.86	-	9.08	8.6	-	-
Electrical Conductivity	µS/cm	-	30-350	71	67	76	75	71	72	74	75	-	24	23	18	14	13	15	10.0	33	39	-	-	-	-	-	-	711.00	1.01	887.00	-	386	619	658	1,940.00	-	2830	1170	-	-
Oxidation Reduction Potential	mV	-	No Water Quality Objective Value	158	177	180	178	167	177	178	175	-	165	191	239	238	253	252	256	232	219	-	-	-	-	-	-	158	53	43	-	49	130	115	213	-	165	202	-	-
Temperature	°C	-	No Water Quality Objective Value	14.63	12.62	13.13	13.37	13.57	13.2	13.22	13.54	-	15.77	13.88	13.19	13.48	15.31	10.67	10.34	17.62	23.68	-	-	-	-	-	-	20.52	16.3	16.19	-	18.83	19.54	19.18	17.02	-	26.52	15.78	-	-
Dissolved Oxygen	% saturation	-	90-110	70.7	66.4	65.8	62.1	70.6	70.4	63.7	60.2	-	65.1	60.9	83.5	65.6	73.8	65.2	67.9	58	62	-	-	-	-	-	-	80.5	97.3	84.5	-	59.7	65.8	100	75.4	-	95.9	70.8	-	-
Turbidity	NTU	-	2-25	0.4	0.03	1.1	0.9	0.6	0.8	1.3	0.8	-	0.4	0.4	9.9	2.8	3.78	6.1	4.4	21.8	8.9	-	-	-	-	-	-	1000	75.00	83.4	-	39.4	20.4	12.9	32.2	-	12.5	40.2	-	-
Laboratory analytes																																								
TSS	mg/L	5	No Water Quality Objective Value	<5	<5	<5	<5	<5	<5	<5	<5	-	<5	<5	8	<5	<5	<5	<5	<5	<5	-	-	-	-	-	-	1,330	27	21	-	<5	6	10	<5	-	12	15	-	-
Hardness as CaCO3	mg/L	1	No Water Quality Objective Value	43	36	43	41	32	39	37	39	-	12	12	7	2	2	<1	<1	13	13	-	-	-	-	-	-	45	238	213	-	62	204	164	463	-	905	418	-	-
Nutrients																																								
Ammonia as N	µg/L	10	13	10	20	10	10	<10	30	10	40	-	20	<10	10	<10	<10	20	<10	40	<10	-	-	-	-	-	-	20	20	20	-	4,480	30	30	90	-	<10	10	-	-
Nitrite + Nitrate as N (NOx)	µg/L	10	15	<10	<10	<10	<10	<10	<10	<10	<10	-	20	<10	<10	<10	<10	<10	<10	70	<10	-	-	-	-	-	-	6,270	5,400	7,410	-	8,520	20,900	20,400	61,500	-	2,230	<10	-	-
Kjeldahl Nitrogen Total	µg/L	100	No Water Quality Objective Value	200	200	200	200	200	200	200	200	-	200	100	400	300	300	200	200	300	400	-	-	-	-	-	-	2,600	1,100	1,500	-	6,200	3,600	2,000	10,600	-	700	200	-	-
Nitrogen (Total)	µg/L	100	250	200	200	200	200	200	200	200	200	-	200	100	400	300	300	200	200	400	400	-	-	-	-	-	-	8,900	6,500	8,900	-	14,700	24,500	22,400	72,100	-	2,900	200	-	-
Reactive Phosphorus	µg/L	1	15	<10	<10	<10	<10	<10	<10	<10	<10	-	<10	50	<10	<10	<10	<10	<10	<10	<10	-	-	-	-	-	-	20	<10	<10	-	<10	<10	20	<10	-	<10	<10	-	-
Phosphorus (Total)	µg/L	10	20	<10	<10	<10	<10	<10	<10	20	30	-	20	40	40	40	60	<10	20	30	<10	-	-	-	-	-	-	1,450	40	110	-	50	30	40	10	-	40	20	-	-
Inorganics																																								
Cyanide Total	µg/L	4	4	<4	<4	<4	<4	<4	<4	<4	<4	-	<4	<4	<4	<4	<4	<4	<4	<4	<4	-	-	-	-	-	-	<4	<4	<4	-	11	<4	<4	<4	-	<4	<4	-	-
Hydrocarbons																																								
Oil and Grease	mg/L	1	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-	-	-	-	-	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	-	-
Metals																																								
Aluminium (total)	µg/L	5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-
Aluminium (dissolved)	µg/L	5	27	6	<5	6	5	6	9	6	6	-	<5	<5	14	14	42	14	13	11	30	-	-	-	-	-	-	6	8	25	-	<5	8	7	<5	-	<5	<5	-	-
Arsenic (total)	µg/L	0.2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	µg/L	0.2	0.8	0.5	0.2	0.5	0.5	0.5	6.1	0.5	0.4	-	<0.2	<0.2	<0.2	<0.2	0.2	0.2	0.2	0.3	0.6	-	-	-	-	-	-	0.5	3.5	1.2	-	0.7	3.2	2.6	3.5	-	1.3	2.1	-	-
Chromium (III+VI) (total)	µg/L	0.2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (III+VI) (dissolved)	µg/L	0.2	0.01	<0.2	<0.2	<0.2	<0.2	<0.2	2.3	<0.2	<0.2	-	0.3	0.3	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.3	-	-	-	-	-	-	2.1	4.4	0.8	-	28.0	9.0	17	1.6	-	1.9	1.1	-	-
Copper (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	µg/L	0.5	1	<0.5	<0.5	<0.5	<0.5	<0.5	2.1	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<0.5	1	1.1	-	<0.5	0.6	0.8	0.7	-	<0.5	<0.5	-	-
Iron (total)	µg/L	2	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	µg/L	2	300	16	9	16	15	15	2	15	15	-	17	14	37	26	128	75	77	129	272	-	-	-	-	-	-	16	<2	7	-	<2	<2	<2	<2	-	<2	<2	-	-
Lead (total)	µg/L	0.1	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	µg/L	0.1	1	<0.1	<0.1	<0.7	<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	-	-
Manganese (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	µg/L	0.5	1,200	0.8	1.9	1.0	1.5	0.7	<0.5	0.9	1.2	-	1.8	0.8	1.9	1.6	1.8	2.6	3.3	67.4	3.9	-	-	-	-	-	-	0.8	62.8	12.7	-	<0.5	<0.5	<0.5	1.2	-	<0.5	59,000	-	-
Nickel (total)	µg/L	0.5	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	µg/L	0.5	8	<0.5	<0.5	<0.5	<0.5	<0.5	1.0	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	-	-	-	-	-	-	<0.5	2.0	1.5	-	<0.5	0.8	1.5	2.3	-	7.7	2.7	-	-
Silver (total)	µg/L	0.01	No Water Quality Objective Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	µg/L	0.01	0.02	<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	-	-
Zinc (total)	µg/L	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	µg/L	1	2.4	<1	<1	<1	<1	<1	<1	<1	1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	-	<1	<1	<1	-	<1	<1	<1	<1	-	<1	<1	-	-

- Samples not required

Snowy Hydro 2.0 Main Works

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

Analyte	Unit	Limit of Reporting	Discharge Criteria	EPL 41	EPL 50
Field				**07 Dec 2025**	**07 Dec 2025**
pH	**pH Unit**	-	6.5-8.5	8.01	7.53
Electrical Conductivity	**µS/cm**	-	700 (EPL 41) / 200 (EPL 50)	114	43
Oxidation Reduction Potential	**mV**	-	No Water Quality Objective Value	130	273
Temperature	**°C**	-	15	20.76	16.1
Dissolved Oxygen	**% saturation**	-	No Water Quality Objective Value	86	61.6
Turbidity	**NTU**	-	<25	26.4	0.22
Laboratory analytes					
Total suspended solids	**mg/L**	5	5/10^	<5	<5
Hardness as $CaCO_3$	**mg/L**	1	No Water Quality Objective Value	<1	<1
Nutrients					
Ammonia as N	**µg/L**	10	1000/2000^	10	40
Nitrite + Nitrate as N (NOx)	**µg/L**	10	No Water Quality Objective Value	490	260
Kjeldahl Nitrogen Total	**µg/L**	100	No Water Quality Objective Value	200	200
Nitrogen (Total)	**µg/L**	100	1500/3000^	700	500
Reactive Phosphorus	**µg/L**	1	No Water Quality Objective Value	<10	<10
Phosphorus (Total)	**µg/L**	10	300/500^	<10	40
Inorganics					
Cyanide Total	**µg/L**	4	No Water Quality Objective Value	<4	<4
Hydrocarbons					
Oil and Grease	**mg/L**	1	2/5^	<1.0	<1.0
Metals					
Aluminium (dissolved)	**µg/L**	5	55	<5	<5
Arsenic (dissolved)	**µg/L**	0.2	13	<0.2	0.2
Chromium (III+VI) (dissolved)	**µg/L**	0.2	1	<0.2	0.5
Copper (dissolved)	**µg/L**	0.5	14	<0.5	1.3
Iron (dissolved)	**µg/L**	2	300	<2	<2
Lead (dissolved)	**µg/L**	0.1	3.4	<0.1	0.1
Manganese (dissolved)	**µg/L**	0.5	1,900	<0.5	<0.5
Nickel (dissolved)	**µg/L**	0.5	11	<0.5	<0.5
Silver (dissolved)	**µg/L**	0.01	0.05	<0.01	<0.01
Zinc (dissolved)	**µg/L**	1	8	<1	4
Biological					
Faecal Coliforms	**CFU/100mL**	1	10/100^	<1	<1
Biological Oxygen Demand	**mg/L**	2	3.5/5^	<1	<1

^ 90 Percentile concentration limit/100 Percentile limit

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

Date	EPL 43 *	EPL 50 ^
	Discharge volume (Megalitres)	
1/12/2025	-	0.31
2/12/2025	-	-
3/12/2025	-	0.11
4/12/2025	1.19	-
5/12/2025	-	-
6/12/2025	1.25	-
7/12/2025	0.49	-
8/12/2025	-	-
9/12/2025	-	-
10/12/2025	-	0.31
11/12/2025	0.27	0.48
12/12/2025	-	-
13/12/2025	0.22	0.23
14/12/2025	-	-
15/12/2025	-	-
16/12/2025	-	0.22
17/12/2025	-	-
18/12/2025	-	0.35
19/12/2025	-	0.14
20/12/2025	-	0.22
21/12/2025	0.68	-
22/12/2025	0.81	0.41
23/12/2025	-	0.51
24/12/2025	-	-
25/12/2025	-	-
26/12/2025	-	0.56
27/12/2025	-	0.27
28/12/2025	-	-
29/12/2025	-	0.17
30/12/2025	-	0.35
31/12/2025	-	-
Totals	4.91	4.64

\- 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.