PATONS LANE RRC
RESOURCE RECOVERY CENTRE

SURFACE WATER MONITORING REPORT – DEWATERING EVENT*

*** via LDP1 (Dam 6), LDP2 (HES) and LDP3 (Dam 3)**

March 24th, 2021

Rainfall: 107 mm (72 h prior to sampling) & 274 mm (120 h prior to sampling)
Sampled within 24 h of discharge: Yes
Horiba U-52 Calibrated: Yes

Table 1: NSW EPA Licensing Requirements (No. 20814 – 20/8/2019) - Special Frequency 1[a]

Parameter	Units	Analytical Detection Limit (Laboratory LOR)	LDP1 (Dam 6)	LDP3 (Dam 3)	S7 Blaxland Creek	LDP2 (HES Gantry)	LDP2 (HES Spillway)	S8 Blaxland Creek	EPL 100th percentile concentration limit	National Water Quality Guidelines[b]
pH		Field Probe	7.53	7.52	7.01	7.71	7.72	6.96	6.5−8.5	6.5−8.5[c]
Total Suspended Solids	mg/L	5	27	467	16	110	128	18	50	6−50[c]
Ammonia (as N)	mg/L	0.01	0.16	0.02	0.02	0.06	0.07	0.02	1.0	0.9 (pH 8.0) Varies with pH[d]
Electrical Conductivity (EC)	µS/cm	Field Probe	411	266	145	572	568	154	NSL[e,f]	125−2200[c]
Total Dissolved Solids	mg/L	1	724	1430	136	476	517	136	NSL	NGV[g]
Dissolved Oxygen	% Saturation mg/L	Field Probe	49.8 4.06	89.4 7.74	82.6 7.49	86.9 7.14	86.5 7.07	70.7 6.37	NSL	85−110%[c]
Total Organic Carbon	mg/L	1	15	<1	8	7	7	10	NSL	NGV
Potassium	mg/L	1	11	1	4	4	4	4	NSL	NGV

[a] Values for pH and dissolved oxygen represent the mean of three independent measurements at each sampling site. All other parameters are based on a composite grab sample of surface water 10−30 cm depth).

[b] ANZECC and ARMCANZ (2000).

[c] Applicable to coastal lowland rivers.

[d] Refer to Tables 8.3.6 and 8.3.7 of ANZECC and ARMCANZ (2000) to determine the guideline value based on site-specific pH and temperature.

[e] NSL, no specific limit.

[f] Recommended limit of 1600 µS/cm for discharge to Blaxland Creek (or off-site).

[g] NGV, no guideline value.