PATONS LANE RRC
RESOURCE RECOVERY CENTRE

SURFACE WATER MONITORING REPORT – DEWATERING EVENT*

*** via LDP2 (HES)**

March 16, 2020

Rainfall: 24 mm (72 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)	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	6.74	8.05	7.94	7.34	6.5−8.5	6.5−8.5[c]
Total Suspended Solids	mg/L	5	51	9	10	9	50	6−50[c]
Ammonia (as N)	mg/L	0.01	0.12	0.10	0.06	0.06	1.0	0.9 (pH 8.0) Varies with pH[d]
Electrical Conductivity (EC)	µS/cm	Field Probe	310	1140	1140	1020	NSL[e,f]	125−2200[c]
Total Dissolved Solids	mg/L	1	230	633	630	556	NSL	NGV[g]
Dissolved Oxygen	% Saturation	Field Probe	50.0	98.4	87.1	75.9	NSL	85−110%[c]
Total Organic Carbon	mg/L	1	15	7	7	9	NSL	NGV
Potassium	mg/L	1	3	6	6	5	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.