PATONS LANE RRC
RESOURCE RECOVERY CENTRE

SURFACE WATER MONITORING REPORT – DEWATERING EVENT*

*** via LDP2 (HES)**

March 9, 2020

Rainfall: 3 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	6.81	7.57	7.65	7.30	6.5−8.5	6.5−8.5[c]
Total Suspended Solids	mg/L	5	7	7	9	<5	50	6−50[c]
Ammonia (as N)	mg/L	0.01	0.06	0.09	0.08	0.07	1.0	0.9 (pH 8.0) Varies with pH[d]
Electrical Conductivity (EC)	µS/cm	Field Probe	226	1010	1010	802	NSL[g,h]	125−2200[c]
Total Dissolved Solids	mg/L	1	177	610	604	482	NSL	NGV[i]
Dissolved Oxygen	% Saturation	Field Probe	51.1	85.1	84.8	85.6	NSL	85−110%[c]
Total Organic Carbon	mg/L	1	20	7	7	11	NSL	NGV
Potassium	mg/L	1	4	7	7	6	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] Temporarily elevated due to flocculation treatment.

[f] Median value prior to flocculation treatment.

[g] NSL, no specific limit.

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

[i] NGV, no guideline value.