

TABLE A2: BLAYNEY WASTE DISPOSAL DEPOT - RESULTS OF LABORATORY ANALYSIS
MAY 2020



Group	Analyte	LOR	Units	Criteria	Sample ID		
					SW1	BH9	BH10
Sample Date / Time					4/05/2020 14:30	26/05/2020 14:00	26/05/2020 14:30
					PS	PS	PS
Physical Parameters	pH (Lab)	0	No unit	6.0 - 8.5	7.3	6.1	5.7
	Electrical Conductivity (Lab)	2	µS/cm	4478	680	1200	3700
	Biochemical Oxygen Demand (BOD5)	5	mg/L	-	11	< 5	< 5
	Total Suspended Solids	5	mg/L	30	79	-	-
Alkalinity	Total Alkalinity as CaCO3	5	mg/L	350	81	95	97
Anions	Chloride	0.05	mg/L	350	130	-	-
	Chloride	1	mg/L	350	-	320	1300
	Fluoride	0.1	mg/L	1	< 0.1	< 0.1	< 0.1
	Sulfate (SO4)	1	mg/L	1000	22	31	17
Cations	Calcium (Ca)	0.1	mg/L	1000	32	77	310
	Magnesium (Mg)	0.1	mg/L	-	24	72	250
	Potassium (K)	0.1	mg/L	-	-	2.2	0.6
	Potassium (K)	0.2	mg/L	-	6.4	-	-
	Sodium (Na)	0.1	mg/L	230	45	-	-
	Sodium (Na)	0.5	mg/L	230	-	40	51
Forms of Carbon	Total Organic Carbon	0.2	mg/L	-	21	3.5	1.9
Nutrients	Ammonia (NH3) as N	0.01	mg/L	-	0.34	0.08	0.07
	Nitrate (NO3) as N	0.005	mg/L	-	-	0.035	-
	Nitrate (NO3) as N	0.025	mg/L	-	-	-	< 0.025
Trace Metals	Copper (Cu)	1	µg/L	200	-	2	< 1
	Iron (Fe)	5	µg/L	200	920	47	1200
	Manganese (Mn)	1	µg/L	200	240	700	2500
	Mercury (Hg)	0.0001	mg/L	0.002	-	< 0.0001	< 0.0001
Phenolics	Total Phenols	0.01	mg/L	-	0.02	< 0.01	0.01

mg/L milligrams per litre

µg/L micrograms per litre

µS/cm microsiemens per centimetre

LOR limit of reporting

PS primary sample

Criteria Criteria adopted from *Australian and New Zealand Environment and Conservation Council (ANZECC) Agriculture and Resource Management Council of Australia and New Zealand (ARMCANZ) Australian and New Zealand Guidelines for Fresh and Marine Water Quality - 'Primary Industries: Water quality for irrigation and general water use'* and/or

NSW EPA Environment Protection Licence 6180 'Limit Conditions - L2.4 Water and/or Land Concentration Limits', 2013

within criteria

criteria exceeded