

**TABLE 2: BLAYNEY WASTE DISPOSAL DEPOT - RESULTS OF LABORATORY ANALYSIS, GROUNDWATER
FEBRUARY 2020**



Group	Analyte	LOR	Units	Criteria	Sample ID								
					BH1	BH2	BH4	BH6	BH6B	BH7	BH12	SW1	
Sample Date / Time					12/02/2020	12/02/2020	12/02/2020	12/02/2020	12/02/2020	12/02/2020	12/02/2020	12/02/2020	12/02/2020
					PS	PS	PS	PS	PS	PS	PS	PS	PS
Physical Parameters	pH (Lab)	0	No unit	6.5 - 8.5	7.1	6.8	6.9	6.6	6.6	6.5	6.8	7.4	
	Electrical Conductivity (Lab)	2	µS/cm	4478	870	4600	3600	5900	6600	12000	2800	650	
	Biochemical Oxygen Demand (BOD5)	5	mg/L	-	< 5	< 5	< 5	< 5	< 5	< 5	< 5	23	
	Total Suspended Solids	5	mg/L	30	-	-	-	-	-	-	-	98	
Alkalinity	Total Alkalinity as CaCO3	5	mg/L	350	350	800	490	390	440	390	440	140	
Anions	Chloride	1	mg/L	350	91	1200	820	1700	2000	4400	490	100	
	Fluoride	0.1	mg/L	1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	< 0.1	
	Fluoride	2	mg/L	1	-	-	-	-	-	< 2	-	-	
	Sulfate (SO4)	1	mg/L	1000	22	34	220	230	220	240	200	27	
Cations	Calcium (Ca)	0.1	mg/L	1000	73	390	250	520	590	1000	240	44	
	Magnesium (Mg)	0.1	mg/L	-	43	310	220	360	400	760	180	27	
	Potassium (K)	0.2	mg/L	-	1.3	2.4	1.8	1	0.6	2.5	1.4	16	
	Sodium (Na)	0.1	mg/L	230	49	110	150	110	130	190	68	37	
Forms of Carbon	Total Organic Carbon	0.2	mg/L	-	1.6	6.5	5.2	2	2.6	3.8	13	40	
Nutrients	Ammonia (NH3) as N	0.01	mg/L	-	0.1	< 0.01	0.05	0.02	0.05	0.02	0.04	0.04	
	Nitrate (NO3) as N	0.005	mg/L	-	2.4	< 0.025	4.9	< 0.025	< 0.05	< 0.1	38	< 0.005	
Trace Metals	Copper (Cu)	0.001	mg/L	0.2	< 0.001	0.002	0.01	< 0.001	< 0.001	< 0.001	0.003	-	
	Iron (Fe)	0.005	mg/L	0.2	< 0.005	0.017	< 0.005	0.007	< 0.005	0.27	< 0.005	1.2	
	Manganese (Mn)	0.001	mg/L	0.2	0.016	0.023	0.11	0.35	0.4	6	0.029	1	
	Mercury (Hg)	0.0001	mg/L	0.002	< 0.0001	0.0015	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0003	-	

mg/L milligrams 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