

TABLE 2: BLAYNEY WASTE DISPOSAL DEPOT - RESULTS OF LABORATORY ANALYSIS
JULY 2021 - AUGUST 2021



	Sample ID Sample Date / Time				BH1	BH2	BH4	BH4S	BH6
					10/08/2021 09:40	10/08/2021 13:00	10/08/2021 11:45	10/08/2021 12:10	10/08/2021 10:05
Group	Analyte	LOR	Units	Criteria	PS	PS	PS	PS	PS
Physical Parameters	pH (Lab)	0	No unit	6.5 - 8.5	7.1	7.1	7.3	7.2	6.8
	Electrical Conductivity (Lab)	2	µS/cm	4478	910	4800	2300	2900	7600
	Biochemical Oxygen Demand (BOD5)	5	mg/L	-	< 5	< 5	< 5	< 5	< 5
	Total Suspended Solids	5	mg/L	30	-	-	-	-	-
Alkalinity	Total Alkalinity as CaCO3	5	mg/L	350	280	700	360	300	370
Anions	Chloride	0.05	mg/L	350	-	-	-	-	-
	Chloride	1	mg/L	350	98	1300	480	720	2500
	Fluoride	0.1	mg/L	1	0.12	< 0.1	0.15	0.15	< 0.1
	Sulfate (SO4)	1	mg/L	1000	22	35	180	220	230
Cations	Calcium (Ca)	0.1	mg/L	1000	-	-	-	-	-
	Calcium (Ca)	0.2	mg/L	1000	88	420	180	170	760
	Magnesium (Mg)	0.1	mg/L	-	55	330	150	210	490
	Potassium (K)	0.1	mg/L	-	1.6	3	7.7	1.2	1.4
	Potassium (K)	0.2	mg/L	-	-	-	-	-	-
	Sodium (Na)	0.1	mg/L	230	-	-	-	-	-
	Sodium (Na)	0.5	mg/L	230	56	140	120	180	150
Forms of Carbon	Total Organic Carbon	0.2	mg/L	-	2.6	6.9	8.8	3.6	3.1
Nutrients	Ammonia (NH3) as N	0.01	mg/L	-	< 0.01	-	0.61	0.02	-
	Ammonia (NH3) as N	0.05	mg/L	-	-	< 0.05	-	-	< 0.05
	Nitrate (NO3) as N	0.005	mg/L	-	3	0.041	2	4.8	-
	Nitrate (NO3) as N	0.025	mg/L	-	-	-	-	-	-
	Nitrate (NO3) as N	0.05	mg/L	-	-	-	-	-	< 0.05
Trace Metals	Copper (Cu)	0.001	mg/L	0.2	< 0.001	0.001	0.003	< 0.001	0.002
	Iron (Fe)	0.005	mg/L	0.2	< 0.005	0.009	0.006	< 0.005	0.01
	Manganese (Mn)	0.001	mg/L	0.2	0.004	0.14	0.085	0.018	0.49
	Mercury (Hg)	0.0001	mg/L	0.002	< 0.0001	0.0027	< 0.0001	< 0.0001	< 0.0001
Phenolics	Total Phenols	0.01	mg/L	-	< 0.01	< 0.01	< 0.01	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

TABLE 2: BLAYNEY WASTE DISPOSAL DEPOT - RESULTS OF LABORATORY ANALYSIS
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			Sample ID		BH6B	BH9	BH10	BH12	SW1
			Sample Date / Time		10/08/2021 10:30	10/08/2021 11:20	10/08/2021 10:55	10/08/2021 12:35	19/07/2021 14:00
Group	Analyte	LOR	Units	Criteria	PS	PS	PS	PS	PS
Physical Parameters	pH (Lab)	0	No unit	6.5 - 8.5	6.8	7.1	6.6	7.1	6.9
	Electrical Conductivity (Lab)	2	µS/cm	4478	8300	220	2300	2700	470
	Biochemical Oxygen Demand (BOD5)	5	mg/L	-	< 5	< 5	< 5	< 5	< 5
	Total Suspended Solids	5	mg/L	30	-	-	-	-	17
Alkalinity	Total Alkalinity as CaCO3	5	mg/L	350	430	71	66	380	42
Anions	Chloride	0.05	mg/L	350	-	-	-	-	110
	Chloride	1	mg/L	350	2800	19	710	510	-
	Fluoride	0.1	mg/L	1	< 0.1	< 0.1	< 0.1	0.16	< 0.1
	Sulfate (SO4)	1	mg/L	1000	190	8.1	19	240	5.6
Cations	Calcium (Ca)	0.1	mg/L	1000	-	-	-	-	17
	Calcium (Ca)	0.2	mg/L	1000	800	24	180	240	-
	Magnesium (Mg)	0.1	mg/L	-	520	20	140	180	13
	Potassium (K)	0.1	mg/L	-	1.8	1.2	0.5	1.6	-
	Potassium (K)	0.2	mg/L	-	-	-	-	-	5.4
	Sodium (Na)	0.1	mg/L	230	-	-	-	-	52
	Sodium (Na)	0.5	mg/L	230	230	12	44	89	-
Forms of Carbon	Total Organic Carbon	0.2	mg/L	-	6.5	4.7	2	15	17
Nutrients	Ammonia (NH3) as N	0.01	mg/L	-	-	0.01	0.03	< 0.01	0.41
	Ammonia (NH3) as N	0.05	mg/L	-	< 0.05	-	-	-	-
	Nitrate (NO3) as N	0.005	mg/L	-	0.059	< 0.005	-	39	1.3
	Nitrate (NO3) as N	0.025	mg/L	-	-	-	< 0.025	-	-
Trace Metals	Nitrate (NO3) as N	0.05	mg/L	-	-	-	-	-	-
	Copper (Cu)	0.001	mg/L	0.2	0.003	0.004	0.001	0.002	-
	Iron (Fe)	0.005	mg/L	0.2	< 0.005	0.073	0.005	< 0.005	2.4
	Manganese (Mn)	0.001	mg/L	0.2	0.8	0.089	1.2	0.019	0.048
Phenolics	Mercury (Hg)	0.0001	mg/L	0.002	< 0.0001	< 0.0001	< 0.0001	0.0002	-
	Total Phenols	0.01	mg/L	-	< 0.01	0.01	< 0.01	< 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*

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