

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



	Sample ID	Sample Date / Time								
		BH1	BH2	BH4	BH4S	BH6	BH6B			
Group	Analyte	LOR	Units	Criteria	PS	PS	PS	PS	PS	PS
Physical Parameters	pH (Lab)	0	No unit	6.0 - 8.5	6.8	6.3	6.7	6.6	6.2	6.1
	Electrical Conductivity (Lab)	2	µS/cm	4478	820	4000	1600	2400	5100	6800
	Biochemical Oxygen Demand (BOD5)	5	mg/L	-	< 5	< 5	< 5	< 5	< 5	< 5
	Total Suspended Solids	5	mg/L	30	-	-	-	-	-	-
Alkalinity	Total Alkalinity as CaCO3	5	mg/L	350	320	820	330	540	390	500
Anions	Chloride	1	mg/L	350	91	1100	320	390	1700	2400
	Fluoride	0.1	mg/L	1	0.18	0.17	0.14	0.27	0.14	0.24
	Sulfate (SO4)	1	mg/L	1000	23	39	130	390	210	170
Cations	Calcium (Ca)	0.1	mg/L	1000	-	-	-	-	-	-
	Calcium (Ca)	0.2	mg/L	1000	80	420	130	170	610	810
	Magnesium (Mg)	0.1	mg/L	-	50	330	110	220	370	530
	Potassium (K)	0.1	mg/L	-	2	3.2	9.4	0.9	1.9	0.8
	Potassium (K)	0.2	mg/L	-	-	-	-	-	-	-
	Sodium (Na)	0.1	mg/L	230	-	-	-	-	-	-
	Sodium (Na)	0.5	mg/L	230	58	130	96	130	120	150
Forms of Carbon	Total Organic Carbon	0.2	mg/L	-	1.6	7.5	7.2	5.1	4.1	3.3
Nutrients	Ammonia (NH3) as N	0.01	mg/L	-	0.03	0.04	3.9	0.02	0.05	0.04
	Nitrate (NO3) as N	0.005	mg/L	-	3.6	-	0.76	9.9	0.36	0.084
	Nitrate (NO3) as N	0.025	mg/L	-	-	< 0.025	-	-	-	-
	Nitrate (NO3) as N	0.02	mg/L	-	-	-	-	-	-	-
Trace Metals	Copper (Cu)	0.001	mg/L	0.2	< 0.001	< 0.001	< 0.001	0.001	0.008	0.004
	Iron (Fe)	0.005	mg/L	0.2	< 0.005	0.26	0.15	< 0.005	< 0.005	< 0.005
	Manganese (Mn)	0.001	mg/L	0.2	0.005	0.06	0.16	0.29	0.22	0.038
	Mercury (Hg)	0.0001	mg/L	0.002	< 0.0001	0.0002	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Phenolics	Total Phenols	0.01	mg/L	-	< 0.01	< 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

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Group	Analyte	LOR	Units	Criteria	Sample ID					
					Sample Date / Time	BH9	BH10	BH12	SW1	SW1
					8/09/2020 15:00	8/09/2020 13:40	8/09/2020 13:00	25/08/2020 15:00	8/09/2020 15:40	27/10/2020 14:00
					PS	PS	PS	PS	PS	PS
Physical Parameters	pH (Lab)	0	No unit	6.0 - 8.5	6.1	5.7	6.5	6.6	6.8	6.7
	Electrical Conductivity (Lab)	2	µS/cm	4478	470	1800	2600	66	1200	1200
	Biochemical Oxygen Demand (BOD5)	5	mg/L	-	< 5	< 5	< 5	< 5	< 5	< 5
	Total Suspended Solids	5	mg/L	30	-	-	-	7	9	12
Alkalinity	Total Alkalinity as CaCO3	5	mg/L	350	83	98	440	28	91	83
Anions	Chloride	1	mg/L	350	97	540	500	3.6	320	350
	Fluoride	0.1	mg/L	1	< 0.1	< 0.1	0.2	< 0.1	0.1	0.12
	Sulfate (SO4)	1	mg/L	1000	16	16	190	< 1	21	15
Cations	Calcium (Ca)	0.1	mg/L	1000	-	-	-	4.4	-	48
	Calcium (Ca)	0.2	mg/L	1000	40	150	250	-	49	-
	Magnesium (Mg)	0.1	mg/L	-	36	120	190	2.1	40	40
	Potassium (K)	0.1	mg/L	-	1.7	0.9	2.2	-	8.3	-
	Potassium (K)	0.2	mg/L	-	-	-	-	7.1	-	6.1
	Sodium (Na)	0.1	mg/L	230	-	-	-	2.8	-	150
	Sodium (Na)	0.5	mg/L	230	26	35	86	-	160	-
Forms of Carbon	Total Organic Carbon	0.2	mg/L	-	4.9	3.8	3.2	9.4	14	18
Nutrients	Ammonia (NH3) as N	0.01	mg/L	-	0.01	0.06	0.02	0.03	1.8	0.16
	Nitrate (NO3) as N	0.005	mg/L	-	0.056	0.025	43	0.21	0.22	0.17
	Nitrate (NO3) as N	0.025	mg/L	-	-	-	-	-	-	-
	Nitrate (NO3) as N	0.02	mg/L	-	-	-	-	0.93	-	-
Trace Metals	Copper (Cu)	0.001	mg/L	0.2	0.004	0.005	0.004	-	-	-
	Iron (Fe)	0.005	mg/L	0.2	0.013	0.035	< 0.005	1.5	1.7	1.1
	Manganese (Mn)	0.001	mg/L	0.2	0.36	1.1	0.036	0.015	1.1	0.44
	Mercury (Hg)	0.0001	mg/L	0.002	< 0.0001	< 0.0001	0.0002	-	-	-
Phenolics	Total Phenols	0.01	mg/L	-	< 0.01	< 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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