

TABLE 1: BLAYNEY WASTE DISPOSAL DEPOT - RESULTS OF LABORATORY ANALYSIS
MARCH 2022 - NOVEMBER 2023
SURFACE WATER



				Sample ID Sample Date / Time	SW1	SW1	SW1	SW1	SW1	SW1	SW1
					09/03/2022	31/05/2022	10/08/2022	06/09/2022	09/11/2022	19/12/2022	31/03/2023
Group	Analyte	LOR	Units	Criteria	PS	PS	PS	PS	PS	PS	PS
Physical Parameters	pH (Lab)	0	No unit	6.5 - 8.5	7.6	7.5	7.8	7.9	8	8.1	7.7
	Electrical Conductivity (Lab)	2	µS/cm	4478	1700	1500	790	1100	930	2100	2200
	Biochemical Oxygen Demand (BOD5)	5	mg/L	-	< 5	< 5	< 5	8	< 5	< 5	< 5
	Total Suspended Solids	5	mg/L	30	5	5	23	44	11	8	15
Alkalinity	Total Alkalinity as CaCO3	5	mg/L	350	200	180	110	170	180	280	280
Anions	Chloride	0.05	mg/L	350	-	-	-	-	-	480	-
	Chloride	1	mg/L	350	520	340	190	250	190	-	570
	Fluoride	0.1	mg/L	1	< 0.1	0.13	< 0.1	0.11	0.1	0.13	< 0.1
	Sulfate (SO4)	1	mg/L	1000	20	32	17	23	16	44	43
Cations	Calcium (Ca)	0.1	mg/L	1000	90	-	-	-	-	-	-
	Calcium (Ca)	0.2	mg/L	1000	-	65	43	58	47	99	110
	Magnesium (Mg)	0.1	mg/L	-	110	62	35	51	42	110	110
	Potassium (K)	0.1	mg/L	-	-	7.4	5.1	5.9	4.5	4.8	12
	Potassium (K)	0.2	mg/L	-	10	-	-	-	-	-	-
	Sodium (Na)	0.1	mg/L	230	170	-	-	-	-	-	-
	Sodium (Na)	0.5	mg/L	230	-	110	71	96	80	160	160
Forms of Carbon	Total Organic Carbon	0.2	mg/L	-	19	16	18	20	20	19	21
	Dissolved Organic Carbon as NPOC	0.2	mg/L	-	-	-	-	-	-	-	20
Nutrients	Ammonia (NH3) as N	0.01	mg/L	-	0.04	0.12	0.19	0.06	1.2	0.08	0.61
	Nitrate (NO3) as N	0.005	mg/L	-	< 0.005	0.67	0.64	1.3	1.6	0.01	0.29
	Nitrate (NO3) as N	0.025	mg/L	-	-	-	-	-	-	-	-
Trace Metals	Iron (Fe)	0.005	mg/L	0.2	0.017	0.71	1.3	0.45	0.34	0.01	0.096
	Manganese (Mn)	0.001	mg/L	0.2	0.002	0.18	0.55	0.72	0.3	0.004	1.3
Phenolics	Total Phenols	0.05	mg/L	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

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*

within criteria
criteria exceeded

TABLE 1: BLAYNEY WASTE DISPOSAL DEPOT - RESULTS OF LABORATORY ANALYSIS
MARCH 2022 - NOVEMBER 2023
SURFACE WATER



				Sample ID Sample Date / Time	SW1	SW1	SW1	SW1	SW1	SW1	SW1
					19/04/2023	02/05/2023	08/06/2023	24/07/2023	02/08/2023	05/10/2023	09/11/2023
Group	Analyte	LOR	Units	Criteria	PS	PS	PS	PS	PS	PS	PS
Physical Parameters	pH (Lab)	0	No unit	6.5 - 8.5	8	7.7	7.9	8.2	8.3	7.9	7.8
	Electrical Conductivity (Lab)	2	µS/cm	4478	2500	2000	3000	2400	2500	2500	2900
	Biochemical Oxygen Demand (BOD5)	5	mg/L	-	< 5	< 5	< 5	< 5	7	5	< 5
	Total Suspended Solids	5	mg/L	30	83	10	9	11	13	15	24
Alkalinity	Total Alkalinity as CaCO3	5	mg/L	350	260	210	260	260	260	270	270
Anions	Chloride	0.05	mg/L	350	-	-	-	-	-	-	-
	Chloride	1	mg/L	350	690	500	820	610	620	620	790
	Fluoride	0.1	mg/L	1	< 0.1	< 0.1	< 0.1	< 0.1	0.17	0.19	0.18
	Sulfate (SO4)	1	mg/L	1000	63	56	81	68	72	52	39
Cations	Calcium (Ca)	0.1	mg/L	1000	-	96	130	110	120	120	120
	Calcium (Ca)	0.2	mg/L	1000	110	-	-	-	-	-	-
	Magnesium (Mg)	0.1	mg/L	-	140	110	150	120	140	150	170
	Potassium (K)	0.1	mg/L	-	11	-	-	-	-	-	-
	Potassium (K)	0.2	mg/L	-	-	7.4	7.3	13	8.6	14	11
	Sodium (Na)	0.1	mg/L	230	-	160	210	170	170	160	190
	Sodium (Na)	0.5	mg/L	230	190	-	-	-	-	-	-
Forms of Carbon	Total Organic Carbon	0.2	mg/L	-	19	19	13	12	12	17	18
	Dissolved Organic Carbon as NPOC	0.2	mg/L	-	-	-	-	-	-	-	-
Nutrients	Ammonia (NH3) as N	0.01	mg/L	-	0.04	0.17	0.02	0.03	0.01	0.02	0.19
	Nitrate (NO3) as N	0.005	mg/L	-	-	0.5	0.1	0.013	-	0.039	< 0.005
	Nitrate (NO3) as N	0.025	mg/L	-	< 0.025	-	-	-	< 0.025	-	-
Trace Metals	Iron (Fe)	0.005	mg/L	0.2	0.015	0.076	0.015	0.048	0.039	0.28	0.037
	Manganese (Mn)	0.001	mg/L	0.2	0.075	0.38	0.082	0.31	0.21	1.2	0.78
Phenolics	Total Phenols	0.05	mg/L	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

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*

within criteria
criteria exceeded