

**TABLE A2: BLAYNEY WASTE DISPOSAL DEPOT - RESULTS OF LABORATORY ANALYSIS
FEBRUARY 2019**



	Sample ID	Sample Date								
		BH1	BH2	BH4	BH6	BH12	SW1			
Group	Analyte	LOR	Units	Criteria	4/02/2019	4/02/2019	4/02/2019	4/02/2019	4/02/2019	4/02/2019
Physical Parameters	pH (Lab)	0	No unit	6.0 - 8.5	7	6.7	6.8	6.7	6.7	7.4
	Electrical Conductivity (Lab)	2	µS/cm	4478	830	4300	3200	4200	2500	1100
	Biochemical Oxygen Demand (BOD5)	5	mg/L	-	< 5	< 5	< 5	< 5	< 5	7
	Total Suspended Solids	5	mg/L	30	-	-	-	-	-	33
Alkalinity	Total Alkalinity as CaCO3	5	mg/L	350	310	640	470	720	420	150
Anions	Chloride	1	mg/L	350	84	1300	850	1200	460	250
	Fluoride	0.1	mg/L	1	0.15	0.13	0.19	0.13	0.16	0.17
	Sulfate (SO4)	1	mg/L	1000	22	43	220	42	210	14
Cations	Calcium (Ca)	0.2	mg/L	1000	70	410	260	430	270	59
	Magnesium (Mg)	0.1	mg/L	-	43	320	230	340	200	47
	Potassium (K)	0.1	mg/L	-	1.4	2.1	1.5	2.3	1.3	17
	Sodium (Na)	0.5	mg/L	230	35	120	150	130	58	55
Forms of Carbon	Total Organic Carbon	0.2	mg/L	-	1.9	6.5	6.1	6.9	15	26
Nutrients	Ammonia (NH3) as N	0.01	mg/L	-	0.26	0.21	0.18	0.05	0.01	0.54
	Nitrate (NO3) as N	0.005	mg/L	-	2.3	-	6.4	-	40	< 0.005
	Nitrate (NO3) as N	0.025	mg/L	-	-	< 0.025	-	< 0.025	-	-
Trace Metals	Copper (Cu)	1	µg/L	200	< 1	< 1	< 1	< 1	3	-
	Iron (Fe)	5	µg/L	200	< 5	< 5	< 5	6	< 5	30
	Manganese (Mn)	1	µg/L	200	22	17	100	17	23	110
	Mercury (Hg)	0.0001	mg/L	0.002	< 0.0001	< 0.0001	< 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

Note: No discharge observed to be occurring at location SW1 at time of sampling. Discharge criteria not applicable to sample SW1.

- 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