

TABLE 2: BLAYNEY WASTE DISPOSAL DEPOT - RESULTS OF LABORATORY ANALYSIS (PFAS COMPOUNDS)
OCTOBER 2024 - FEBRUARY 2025 GROUNDWATER



Group	Analyte	LOR	Units	Sample ID	BH1	BH2	BH4	BH6	BH6B	BH9	BH10	BH12
				Sample Date	11/02/2025	11/02/2025	11/02/2025	11/02/2025	11/02/2025	11/02/2025	11/02/2025	11/02/2025
Physical Parameters	pH (Lab)	0	No unit	6.0 - 8.5	6.8	6.8	6.7	6.5	6.7	6.8	5.9	6.8
	Electrical Conductivity (Lab)	2	µS/cm	4478	750	3500	4800	7500	8300	700	9300	2400
	Biochemical Oxygen Demand (BOD5)	5	mg/L	-	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Alkalinity	Total Alkalinity as CaCO3	5	mg/L	350	330	540	620	530	610	180	170	410
Anions	Chloride	1	mg/L	350	66	1000	1400	2700	2900	110	3600	370
	Fluoride	0.1	mg/L	1	0.27	0.22	0.32	0.22	0.27	0.14	0.12	0.31
	Sulfate (SO4)	1	mg/L	1000	20	71	370	250	220	35	100	420
Cations	Calcium (Ca)	0.1	mg/L	1000	64	290	380	700	750	56	760	210
	Magnesium (Mg)	0.1	mg/L	-	35	220	310	410	460	38	610	150
	Potassium (K)	0.2	mg/L	-	0.9	1.8	2.1	1.1	0.9	1.4	0.5	1.3
	Sodium (Na)	0.1	mg/L	230	44	94	170	140	170	16	96	80
	Total Organic Carbon	0.2	mg/L	-	1	4	8.7	4.6	5.7	1.7	6.2	16
Nutrients	Ammonia (NH3) as N	0.01	mg/L	-	0.01	0.03	< 0.05	< 0.05	0.07	0.05	0.06	0.02
	Nitrate (NO3) as N	0.005	mg/L	-	1.9	1.2	7.8	< 0.025	< 0.05	0.048	< 0.05	29
	Reactive Phosphorus as P	0.005	mg/L	-	-	-	-	-	-	-	-	-
	Reactive Phosphorus as PO4	0	mg/L	-	-	-	-	-	-	-	-	-
Trace Metals	Copper (Cu)	0.001	mg/L	0.2	< 0.001	0.003	0.014	< 0.001	0.001	0.004	0.004	0.006
	Iron (Fe)	0.005	mg/L	0.2	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.5	< 0.005
	Manganese (Mn)	0.001	mg/L	0.2	0.012	0.013	0.24	0.58	1.3	0.59	3.3	0.022
	Mercury (Hg)	0.0001	mg/L	0.002	< 0.0001	0.0013	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Phenolics	Total Phenols	0.05	mg/L	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
PFAS Compounds	Perfluorobutanoic acid (PFBA)	0.05	µg/L	-	< 0.05	< 0.05	0.22	< 0.05	< 0.05	< 0.05	< 0.05	0.05
	Perfluoropentanoic acid (PFPeA)	0.01	µg/L	-	< 0.01	0.18	0.42	0.03	0.03	< 0.01	0.03	0.09
	Perfluorohexanoic acid (PFHxA)	0.01	µg/L	-	< 0.01	0.15	0.37	0.06	0.06	< 0.01	0.08	0.15
	Perfluoroheptanoic acid (PFHpA)	0.01	µg/L	-	< 0.01	0.06	0.2	0.02	0.02	< 0.01	0.02	0.09
	Perfluorooctanoic acid (PFOA)	0.01	µg/L	19	< 0.01	0.04	0.19	0.02	0.03	< 0.01	0.02	0.24
	Perfluorononanoic acid (PFNA)	0.01	µg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Perfluorodecanoic acid (PFDA)	0.01	µg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Perfluoroundecanoic acid (PFUnDA)	0.01	µg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Perfluorododecanoic acid (PFDoDA)	0.01	µg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Perfluorotridecanoic acid (PFTriDA)	0.01	µg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Perfluorotetradecanoic acid (PFTeDA)	0.01	µg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Perfluorobutane sulfonate (PFBS)	0.01	µg/L	-	< 0.01	< 0.01	0.08	< 0.01	< 0.01	< 0.01	< 0.01	0.04
	Perfluoropentane sulfonic acid (PFPeS)	0.01	µg/L	-	< 0.01	< 0.01	0.06	< 0.01	< 0.01	< 0.01	< 0.01	0.04
	Perfluorohexane sulfonic acid (PFHxS)	0.01	µg/L	-	< 0.01	0.01	0.24	0.01	0.02	< 0.01	0.03	0.17
	Perfluoroheptane sulfonic acid (PFHpS)	0.01	µg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Perfluorooctane sulfonic acid (PFOS)	0.01	µg/L	0.00023	< 0.01	< 0.01	0.04	< 0.01	< 0.01	< 0.01	< 0.01	0.05
	Perfluorononane sulfonate (PFNS)	0.01	µg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Perfluorodecane sulfonic acid (PFDS)	0.01	µg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	0.01	µg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	0.01	µg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Perfluorooctane sulfonamide (FOSA)	0.01	µg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	N-Methyl perfluorooctane sulfonamide (MeF)	0.01	µg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	N-Ethyl perfluorooctane sulfonamide (EtFOS)	0.01	µg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	N-Methyl perfluorooctane sulfonamidoetha	0.05	µg/L	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
	N-Ethyl perfluorooctane sulfonamidoethano	0.05	µg/L	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
	N-Methyl perfluorooctane sulfonamidoaceti	0.05	µg/L	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
	N-Ethyl perfluorooctane sulfonamidoacetic a	0.05	µg/L	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
	Perfluoropropane sulfonic acid (PFPrS)	0.01	µg/L	-	< 0.01	< 0.01	0.05	< 0.01	< 0.01	< 0.01	< 0.01	0.03
	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	0.01	µg/L	-	< 0.01	< 0.01	< 0.01	0.01	0.01	< 0.01	0.02	< 0.01
	1H,1H,2H,2H-Perfluorododecane sulfonic aci	0.01	µg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Sum of PFHxS and PFOS	0.01	µg/L	-	< 0.01	0.01	0.27	0.01	0.02	< 0.01	0.03	0.22
	Sum of PFOS and PFOA	0.01	µg/L	-	< 0.01	0.04	0.22	0.02	0.03	< 0.01	0.02	0.29

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', 2000, and/or Heads of EPAs Australia and New Zealand - National Chemicals Working Group, 'PFAS National Environmental Management Plan' (Version 3.0, 2025) - 'Ecological water quality guideline values (99% protection)

within criteria
criteria exceeded