

TABLE 1: BLAYNEY WASTE DISPOSAL DEPOT - RESULTS OF LABORATORY ANALYSIS (PFAS COMPOUNDS)
SEPTEMBER 2024 - MAY 2025 SURFACE WATER



					Sample ID	SW1	SW1	SW1	SW1	SW1	SW1	
					Sample Date	12/09/2024	4/10/2024	11/02/2025	29/04/2025	29/05/2025	30/05/2025	
Group	Analyte	LOR	Units	Criteria	PS	PS	PS	PS	PS	PS	PS	
Physical Parameters	pH (Lab)	0	No unit	6.5 - 8.5	8.2	8.6	7.8	7.9	8.1	-	-	
	Electrical Conductivity (Lab)	2	µS/cm	4478	2000	2600	2200	3200	3200	-	-	
	Biochemical Oxygen Demand (BOD5)	5	mg/L	-	< 5	< 5	< 5	8	< 5	-	-	
	Total Suspended Solids	0	mg/L	30	11	31	28	26	15	-	-	
Alkalinity	Total Alkalinity as CaCO3	5	mg/L	350	230	230	180	200	210	-	-	
Anions	Chloride	1	mg/L	350	580	740	700	1200	1100	-	-	
	Fluoride	0.1	mg/L	1	< 0.1	< 0.1	0.23	0.26	0.49	-	-	
Cations	Sulfate (SO4)	1	mg/L	1000	48	70	42	43	51	-	-	
	Calcium (Ca)	0.1	mg/L	1000	110	120	110	150	200	-	-	
	Magnesium (Mg)	0.1	mg/L	-	120	140	130	220	230	-	-	
	Potassium (K)	0.2	mg/L	-	7	14	8	13	17	-	-	
	Sodium (Na)	0.1	mg/L	230	140	160	120	210	240	-	-	
	Forms of Carbon	0.2	mg/L	-	17	16	15	19	13	-	-	
Nutrients	Ammonia (NH3) as N	0.01	mg/L	-	0.03	0.02	0.17	0.02	0.04	-	-	
	Nitrate (NO3) as N	0.005	mg/L	-	< 0.005	< 0.005	0.058	< 0.025	0.039	-	-	
	Reactive Phosphorus as P	0.005	mg/L	-	-	-	-	0.005	-	-	-	
	Reactive Phosphorus as PO4	0	mg/L	-	-	-	-	0.02	-	-	-	
Trace Metals	Iron (Fe)	0.005	mg/L	0.2	< 0.005	< 0.005	0.018	0.013	0.01	-	-	
	Manganese (Mn)	0.001	mg/L	0.2	< 0.001	0.074	0.61	0.002	0.23	-	-	
Phenolics	Total Phenols	0.05	mg/L	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	
PFAS Compounds	Perfluorobutanoic acid (PFBA)	0.05	µg/L	-	-	< 0.05	< 0.05	0.023	-	< 0.05	-	
	Perfluoropentanoic acid (PFPeA)	0.01	µg/L	-	-	0.04	0.03	0.067	-	0.05	-	
	Perfluorohexanoic acid (PFHxA)	0.01	µg/L	-	-	0.04	0.04	0.065	-	0.06	-	
	Perfluoroheptanoic acid (PFHpA)	0.01	µg/L	-	-	0.01	0.01	0.022	-	0.02	-	
	Perfluorooctanoic acid (PFOA)	0.01	µg/L	19	-	0.02	0.02	0.033	-	0.02	-	
	Perfluorononanoic acid (PFNA)	0.01	µg/L	-	-	< 0.01	< 0.01	< 0.001	-	< 0.01	-	
	Perfluorodecanoic acid (PFDA)	0.01	µg/L	-	-	< 0.01	< 0.01	< 0.002	-	< 0.01	-	
	Perfluoroundecanoic acid (PFUnDA)	0.01	µg/L	-	-	< 0.01	< 0.01	< 0.001	-	< 0.01	-	
	Perfluorododecanoic acid (PFDoDA)	0.01	µg/L	-	-	< 0.01	< 0.01	< 0.001	-	< 0.01	-	
	Perfluorotridecanoic acid (PFTriDA)	0.01	µg/L	-	-	< 0.01	< 0.01	< 0.001	-	< 0.01	-	
	Perfluorotetradecanoic acid (PFTeDA)	0.01	µg/L	-	-	< 0.01	< 0.01	< 0.001	-	< 0.01	-	
	Perfluorobutane sulfonate (PFBS)	0.01	µg/L	-	-	< 0.01	< 0.01	0.007	-	< 0.01	-	
	Perfluoropentane sulfonic acid (PFPeS)	0.01	µg/L	-	-	< 0.01	< 0.01	0.003	-	< 0.01	-	
	Perfluorohexane sulfonic acid (PFHxS)	0.01	µg/L	-	-	0.01	< 0.01	0.012	-	0.01	-	
	Perfluoroheptane sulfonic acid (PFHpS)	0.01	µg/L	-	-	< 0.01	< 0.01	< 0.001	-	< 0.01	-	
	Perfluorooctane sulfonic acid (PFOS)	0.01	µg/L	0.00023	-	< 0.01	< 0.01	0.0033	-	< 0.01	-	
	Perfluorononane sulfonate (PFNS)	0.01	µg/L	-	-	< 0.01	< 0.01	< 0.001	-	< 0.01	-	
	Perfluorodecane sulfonic acid (PFDS)	0.01	µg/L	-	-	< 0.01	< 0.01	< 0.001	-	< 0.01	-	
	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	0.01	µg/L	-	-	< 0.01	< 0.01	< 0.002	-	< 0.01	-	
	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	0.01	µg/L	-	-	< 0.01	< 0.01	< 0.002	-	< 0.01	-	
	Perfluorooctane sulfonamide (FOSA)	0.01	µg/L	-	-	< 0.01	< 0.01	< 0.005	-	< 0.01	-	
	N-Methyl perfluorooctane sulfonamide (MeF)	0.01	µg/L	-	-	< 0.01	< 0.01	< 0.005	-	< 0.01	-	
	N-Ethyl perfluorooctane sulfonamide (EtFOS)	0.01	µg/L	-	-	< 0.01	< 0.01	< 0.005	-	< 0.01	-	
	N-Methyl perfluorooctane sulfonamidoethan	0.05	µg/L	-	-	< 0.05	< 0.05	< 0.005	-	< 0.05	-	
	N-Ethyl perfluorooctane sulfonamidoethanol	0.05	µg/L	-	-	< 0.05	< 0.05	< 0.005	-	< 0.05	-	
	N-Methyl perfluorooctane sulfonamidoacetic	0.05	µg/L	-	-	< 0.05	< 0.05	< 0.005	-	< 0.05	-	
	N-Ethyl perfluorooctane sulfonamidoacetic a	0.05	µg/L	-	-	< 0.05	< 0.05	< 0.005	-	< 0.05	-	
	Perfluoropropane sulfonic acid (PFPrS)	0.01	µg/L	-	-	< 0.01	< 0.01	0.002	-	< 0.01	-	
	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	0.01	µg/L	-	-	< 0.01	< 0.01	< 0.002	-	< 0.01	-	
	1H,1H,2H,2H-Perfluorododecane sulfonic aci	0.01	µg/L	-	-	< 0.01	< 0.01	< 0.002	-	< 0.01	-	
	Sum of PFHxS and PFOS	0.01	µg/L	-	-	0.01	0.016	< 0.01	0.016	-	0.01	-
	Sum of PFOS and PFOA	0.01	µg/L	-	-	0.02	0.02	0.036	-	0.02	-	-
Sum of enHealth PFAS (PFHxS+PFOS+PFOA)	0.01	µg/L	-	-	0.03	0.02	0.048	-	0.04	-	-	