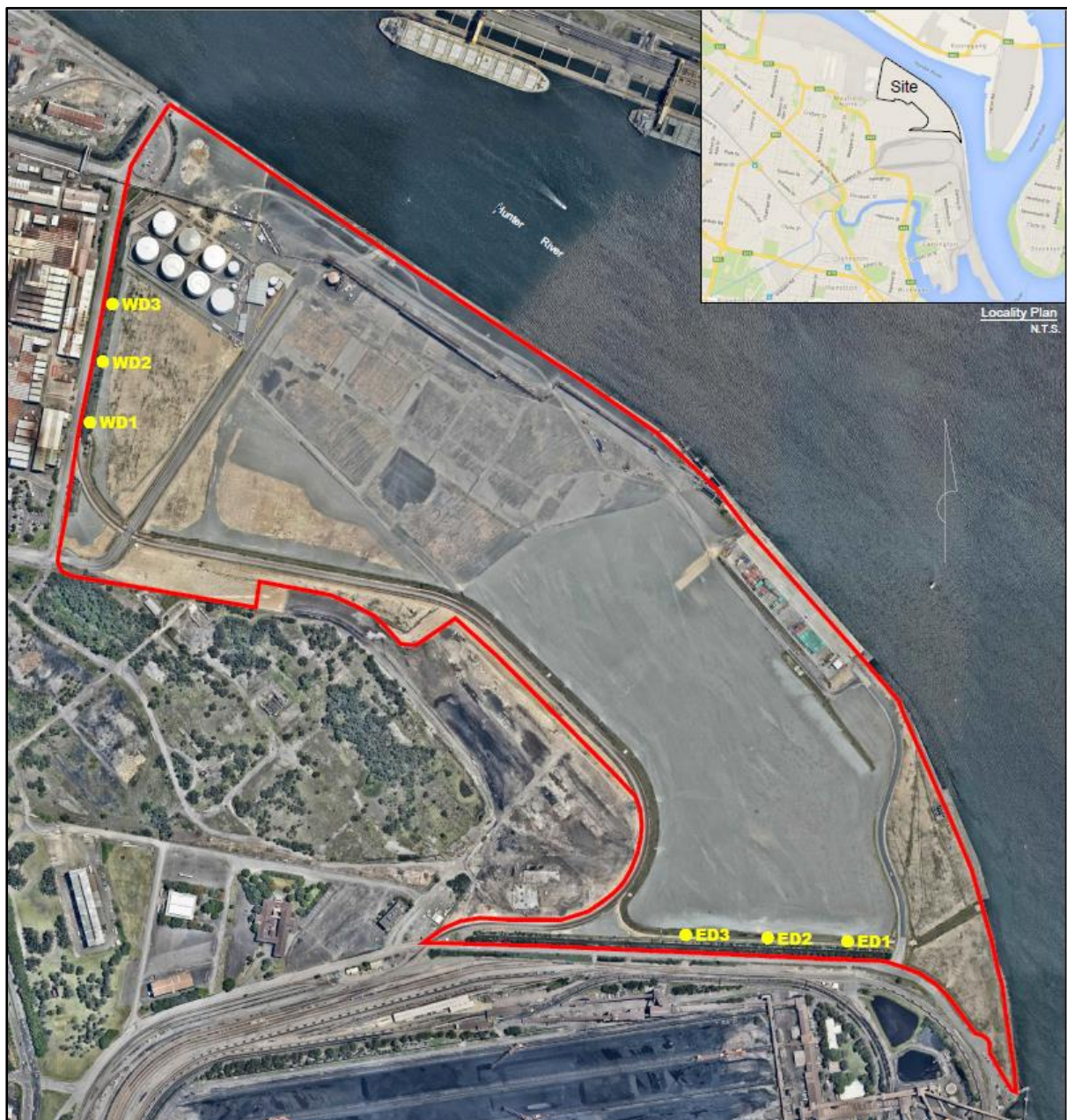


Mayfield Concept Plan Approval 09_0096

2023 Quarterly Stormwater Monitoring Report

In accordance with Schedule 3 Condition 2.21 (d) of Mayfield Concept Approval 09_0096, PON developed a Stormwater Management Strategy for the Concept Approval Area that includes a stormwater monitoring program to confirm that the site continues to meet the commitments and requirements of the Approval. Sampling is undertaken on a quarterly basis at the downstream extents of site drainage infrastructure, prior to discharge into the Eastern and Western drains. There are a total of six sampling locations shown on Figure 1 below.

Figure 1: Mayfield Concept Area Stormwater Monitoring Locations



SAMPLE POINT	Units	Frequency	ED1		ED2		ED3		WD1		WD2		WD3	
			22/02/2023	Re-sample* 24/03/2023	22/02/2023	Re-sample* 24/03/2023	22/02/2023	Re-sample* 24/03/2023	22/02/2023	Re-sample* 27/03/2023	22/02/2023	Re-sample* 27/03/2023	22/02/2023	Re-sample* 27/03/2023
Rainfall (previous 24 hrs)	mm		93		93		93		70		70		70	
pH	pH unit	Quarterly	7.61	7.17	7.5	7.17	7.52	7.03	7.85	--	7.84	--	7.85	--
TSS	mg/L	Quarterly	35	45	2130	39	396	53	28	--	18	--	19	--
Dissolved Oxygen	mg/L	Quarterly	6.4	4.5	6.6	4.3	5.9	4.6	6.3	--	5.5	--	5.6	--
Nitrite as N	µg/L	Quarterly	11	5	20	5	18	4	<3	--	6	--	5	--
Nitrate as N	µg/L	Quarterly	200	<2	71	3	86	2	221	--	282	--	288	--
Nitrite + Nitrate as N	µg/L	Quarterly	211	5	91	8	104	6	221	--	288	--	293	--
Total Kjeldahl Nitrogen	µg/L	Quarterly	800	1780	800	1500	600	1150	300	--	300	--	300	--
Total Nitrogen (calc)	µg/L	Quarterly	1000	1790	900	1510	700	1160	500	--	600	--	600	--
Oil and Grease	mg/L	Quarterly	<5	<5	<5	<5	<5	<5	<5	--	<5	--	<5	--
Filterable Reactive Phosphate	µg/L	Quarterly	130	108	60	31	<50	48	60	--	<50	--	8	--
Biological Oxygen Demand	mg/L	Quarterly	<2	6	<2	<2	<2	<2	<2	--	<2	--	<2	--
Total Arsenic	µg/L	Annual	2	1	16	<1	3	1	<1	--	<1	--	<1	--
Total Beryllium	µg/L	Annual	<1	<1	4	<1	<1	<1	<1	--	<1	--	<1	--
Total Boron	µg/L	Annual	1100	<50	<50	<50	<50	<50	4530	<50	4300	<50	4410	<50
Total Cadmium	µg/L	Annual	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	--	<0.1	--	<0.1	--
Total Chromium	µg/L	Annual	<1	<1	45	<1	8	1	<1	--	<1	--	<1	--
Total Cobalt	µg/L	Annual	<1	2	41	<1	6	4	<1	--	<1	--	<1	--
Total Copper	µg/L	Annual	7	10	117	17	21	10	23	<1	17	<1	17	<1
Total Lead	µg/L	Annual	2	83	84	34	10	53	<1	--	<1	--	<1	--
Total Manganese	µg/L	Annual	103	10	2290	7	333	6	68	71	60	3	58	5
Total Nickel	µg/L	Annual	2	<1	63	1	8	2	<1	--	<1	--	<1	--
Total Selenium	µg/L	Annual	<10	<10	20	<10	<1	<10	<10	--	<10	--	<10	--
Total Zinc	µg/L	Annual	84	9	356	8	55	18	<52	--	<52	--	<52	--
Total Mercury	mg/L	Annual	<0.0001	<0.0001	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	--	<0.0001	--	<0.0001	--

*Monitoring point re-sampled due to unexpected/ unexplained concentrations of certain parameters detected in the primary sample