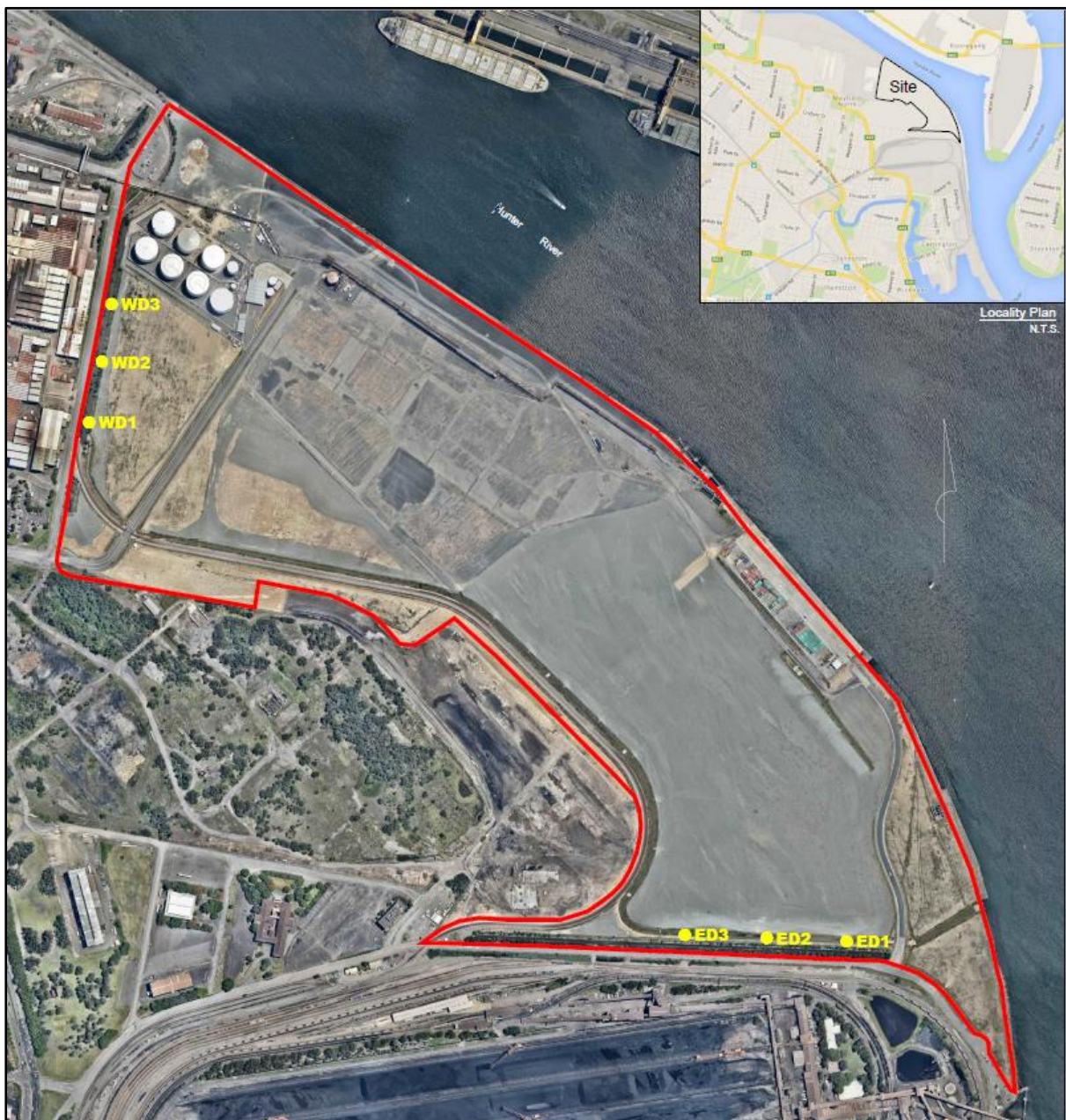


Mayfield Concept Plan Approval 09_0096

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



Analytes that are to be monitored at each sample location are detailed in Table 1 below.

Table 1: Analytes for Stormwater

Pollutant	Unit of Measure	Frequency	Sampling Method
Total suspended solids	mg/L	Quarterly	Grab sample during rainfall event
pH	pH units	Quarterly	Grab sample during rainfall event
Nitrogen (total)	ug/L	Quarterly	Grab sample during rainfall event
Oil and grease	mg/L	Quarterly	Grab sample during rainfall event
Phosphate	ug/L	Quarterly	Grab sample during rainfall event
BOD	mg/L	Quarterly	Grab sample during rainfall event
Dissolved oxygen	%	Quarterly	Grab sample during rainfall event
Heavy metals (comprehensive suite)	ug/L	Annually	Grab sample during rainfall event

Stormwater sampling was conducted on 27 March 2023 for locations WD1, WD2 and WD3. Sampling was conducted on 20 April 2023 for locations ED1, ED2 and ED3. All samples were analysed for quarterly suite of parameters and the results are presented below in Table 2.

The annual heavy metal suite is next due in March 2024.

Table 2: Results for quarterly suite of analytes

3 March 2022	Units	ED1	ED2	ED3	WD1	WD2	WD3
pH	pH unit	6.87	6.76	6.92	6.92	7.12	7.15
TSS	mg/L	71	77	133	67	12	<5
Dissolved Oxygen	%	83.9	92.6	91	79.0	77.3	72.4
Total Nitrogen (calc)	µg/L	800	800	600	2800	2200	1600
Oil and Grease	mg/L	<5	<5	<5	<5	<5	<5
Filterable Reactive Phosphate	µg/L	140	160	100	80	<50	<5
Biological Oxygen Demand	mg/L	4	4	2	9	4	5