Mayfield Concept Plan Approval

Quarterly Stormwater Monitoring Report

June 2024 to August 2024
Date of sampling: 7th June 2024
Date Published: 07/11/2024

In accordance with Schedule 3 Condition 2.21 (d) of the Mayfield Concept Approval, PON has developed a Stormwater Management Strategy for the site.

To support the strategy PON conducts an ongoing site wide monitoring program to confirm that the site continues to meet the commitments and requirements of the Concept Plan Approval. Sampling is undertaken on a quarterly basis at the downstream extent of the site drainage infrastructure prior to discharge into the Eastern and Western drains. There are a total of six sampling locations. Please refer to Figure 1 below.

Figure 1: Mayfield Site Water Quality Monitoring Locations

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

Table 1: Analytes for Stormwater

Analyte	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 in June 2024, however only water was flowing from the Eastern Drains. A further attempt was made to sample the Western drains in August following rainfall, however the drains were again not flowing.

Results are presented Table 2 below.

Table 2: Results for quarterly suite of analytes

	Units	ED1	ED2	ED3	WD1	WD2	WD3
pH	pH unit	6.96	6.82	6.99	-	-	-
TSS	mg/L	<5	7	9	-	-	-
Dissolved Oxygen	%	62.8	70	72.3	-	-	-
Total Nitrogen (calc)	µg/L	500	400	500	-	-	-
Oil and Grease	mg/L	<5	<5	<5	-	-	-
Biological Oxygen Demand	mg/L	3	<2	2	-	-	-