

RECYCLED MATERIAL SUPPLIES LIMITED

Wash Plant

Environmental Permit

Primrose Wharf

Knights Road

Silvertown

E16 2AT

Version 1 Dated 17 December 2025

[RMS-PW-WP-V1]

Introduction

Recycled Material Supplies Limited (RMS) has applied for an Environmental Permit to operate a waste management facility at Primrose Wharf, Knights Road, Silvertown, E16 2AT.

The operation will involve the receipt, storage and treatment of construction and demolition waste, by physical treatment including sorting, screening, crushing, separation, washing, blending of wastes into different components for recovery.

This report provides an overview on the management of water through the wash plant.

Site Drainage

The drainage layout is shown on Drawing No 2352-100. The whole site drainage has been designed by HK Hydrology to meet the requirements of Newham Council in terms of sustainable water management and climate change.

There are different drainage components for each part of the site. For the wash plant, this will have a self-contained system to allow water to be recycled. A 60m³ sealed tank will be provided to capture runoff from the wash plant area. The wash plant could also hold 20m³, through the various components, including tanks and the filter press.

The wash plant is designed to recirculate water and minimise water use. Water will be recovered as much as possible to reduce reliance on mains water.

Water Source

Water for the wash plant will be initially supplied by mains water. It will be captured in the tank and recirculated as much as possible, being topped up by mains water. The sealed tank will also capture rainwater. The site has also incorporated rainwater harvesting, with approximately 75m³ of rainwater storage being provided in above ground tanks.

Additional attenuation will be provided across the front yard, which can hold 1,050m³.

The operation of the wash plant will introduce potential hazards such as spillage or leakage of process water from the plant. However, the wash plant will be a fully contained system and the whole site comprises a sealed drainage system, with concrete surfacing draining to a sealed tank, via a silt trap.

Water Sampling

This water will be tested to check that no contaminants are being concentrated in the recycled wash water. It is proposed to test for the following common contaminants:

- Arsenic
- Chromium
- Cadmium
- Copper
- Lead
- Nickel
- Zinc
- Total Petroleum Hydrocarbons (TPH)

- PAH 16
- pH

Testing will be carried out monthly for the first 12 months. After a full year, the data will then be assessed, and the testing schedule will be reviewed.

The wash water test results will be reviewed on receipt and checked to ensure that appropriate action can be taken i.e. change of wash water and its removal to a suitably licenced facility.

The site manager will be responsible for obtaining a representative wash water sample in the correct container as advised by the laboratory. A laboratory with accredited testing methods will be used.

Once a full year of data has been provided. A review will be undertaken to develop action and trigger levels for contaminants. The action level will be used to provide an early warning of nearing a trigger level. In the absence of industry-wide standards, this can only be achieved by reviewing actual data and assessing the risk to the environment.

However, the entire site will be concreted with sealed drainage. The system is checked daily, and there is a spillage procedure in the EMS.

Replacing Water

In addition to the laboratory testing of the wash water, there will be a visual and olfactory inspection of the wash water before the commencement of operations each day or in the event of a fuel/oil spillage at the site.

The visual inspection will be to check for evidence of oils on the surface of the wash water or within the wash plant working area (which has a separate drainage system). The visual inspection will establish whether there is a level of oil contamination that would give rise to a need to change the water. The Site Manager will be responsible for training operatives to establish how to visually check the water.

Removal of Wash Water

If water needs to be replaced, the Site Manager will arrange for a company to tanker the water to a permitted treatment facility.

The water will be replaced with mains water or utilise water from on-site rainwater harvesting.