

Northfleet Mill – Ground Investigation Summary

Executive Summary

Erda Associates Ltd conducted a ground investigation at Northfleet Mill to assess contamination risks and provide geotechnical data for foundation design of a proposed pulp storage building. The investigation included boreholes, trial pits, chemical and geotechnical testing, and Waste Acceptance Criteria (WAC) analysis.

Ground Conditions

- Made Ground: Depth 0.5–4.5 m bgl, sandy gravelly clay with chalk, brick, flint, occasional ash.
- Underlying Stratum: Lewes Nodular Chalk Formation (>10 m bgl).
- Groundwater: Encountered at 3.0–4.0 m bgl; occasional chalk softening.

Soil Chemical Results

Sample ID	Depth (m)	Total PAH (mg/kg)	Dibenz(a,h)anthracene (mg/kg)	Asbestos	Notes
WS01	0.30	5.4	<0.20	Not detected	Within limits
WS03	0.30	29	0.40	Not detected	Within limits
WS04	0.50	18	0.27	Not detected	Within limits
WS05	0.10	270	3.9	Not detected	Elevated PAHs
TP01	0.20	1.2	<0.02	Not detected	Within limits

Contamination Issues & Recommendations

- Elevated Dibenz(a,h)anthracene and total PAHs detected at WS05 (0.10 m depth).
- If capped with hardstanding (e.g., concrete slab), no further remediation required.
- If not capped, locally excavate and remove contaminated soil at WS05.
- Shallow soils likely non-hazardous; confirm classification with WM3 before disposal.