

# REMEDIATION OF FORMER PAPER MILL



## AT A GLANCE

### Client

- Linden Homes

### Remediation Value

- £850,000

### Site

- 14,000m<sup>2</sup> site, with river frontage, on the outskirts of Bristol, undergoing redevelopment for 140 houses. A paper mill, foundry and workshops had operated on the site for over 150 years.



Figure 1 - Flocculant addition to hydrocarbon impacted organic sludge to dewater for handling before further ex-situ treatment.



Figure 2 - Hydrocarbon impacted organic sludge.



Figure 3 - Dewatered in situ and then remediated using a stabilisation/solidification process

## CONTAMINANTS

- Heavy oils
- Hydrocarbon-impacted soil
- Asbestos
- Organic paper mulch

## CHALLENGES

- Construction already underway during remediation.
- Archaeological investigations were ongoing during the remediation phase.
- Existing residential properties within 20 m of the site.
- Deep buried obstructions, including a contaminated tunnel system, not previously surveyed.
- Requirement to remove all abnormalities to enable a driven pile foundation solution.
- Reuse of all materials was the preferred strategy.
- Demanding geotechnical specification for reinstatement

## SOLUTIONS

- Detailed contaminant and geophysical survey of site.
- *Ex-situ* bioremediation of hydrocarbon impacted soil.
- Segregation and hand-picking of visibly asbestos contaminated material to enable site reuse.
- Identification of buried voids and removal of hydrocarbon free product.
- All concrete within the gas holders was cleaned, crushed and reused as a capping layer, reducing material import.
- Removal of obstructions, including a 100m tunnel to 5m deep, 25 concrete tanks and deep foundations.
- Dewatering and stabilisation/solidification of oil contaminated organic sludge to meet site environmental and geotechnical specifications.
- Backfilling treated soils in benched layers to meet geotechnical and environmental specifications.
- Working in conjunction with ground workers and piling contractors to meet a tight deadline.
- UK Remediation was the principal contractor for much of the project.

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