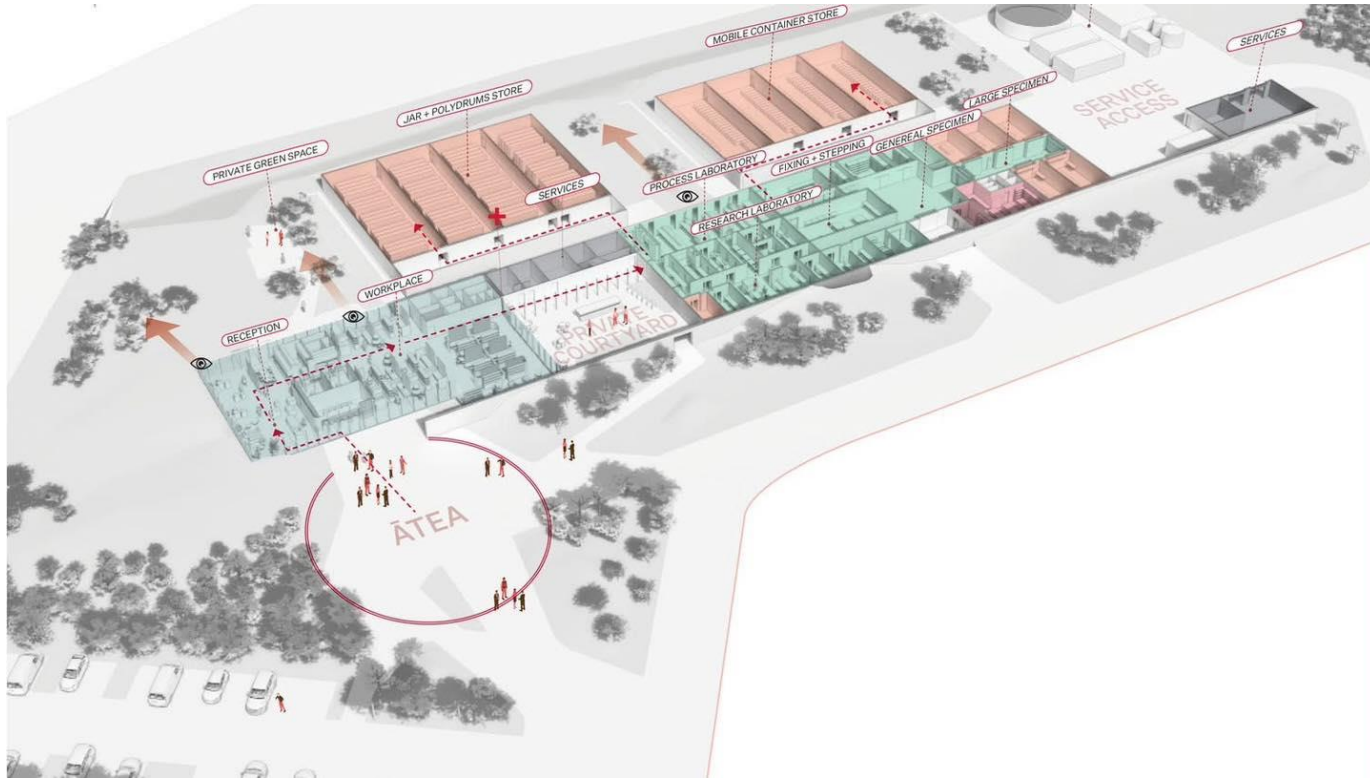


Managing Legacy Contamination at Te Papa: Progress Made, Challenges Remain

Natalie Flatman
Senior Environmental Scientist
ENGEO

Proposed Works



Site Background

- General Motors started assembling vehicles on the site in 1964 until 1999
- Multiple HAIL categories including A17, D3, E1, F4, and I
- Prior to 2008, multiple investigations had been conducted with remediation being undertaken and validated




Site Background

Selected Land Use Register Site:
General Motors

Zoom to

Site ID	637
Site Name	General Motors
Street Number	140 -166
Street Name	ALEXANDER RD
Local Authority	UPPER HUTT CITY
File Number	SN/04/014/02
Category	Verified History of Hazardous Activity or Industry
ANZECC	Vehicle refuelling, service and repair, Chemical manufacture, application and bulk storage, Metal extraction, refining and reprocessing, storage and use
ANZECC Sub	Motor vehicle workshops, Storage tanks or drums for fuel, chemicals or liquid waste, Metal treatment or coating including polishing, anodising, galvanising, pickling, electroplating, or heat treatment or finishing using cyanide compounds



< > 1 of 2

Recent Background

- Former consultant engaged to completed PSI with limited soil sampling
- Identified asbestos fibres within fill layers along with AC pipes
- GWRC maintains former remediation was complete
- Client concerned about risk to site workers from AC pipes and fill material



ENGEO Initial Testing

- ENGEO completed a data gap report including near surface sampling and test pitting across the site
- Additional four locations identified for asbestos in various depths within the fill – 0.2 m down to 1.0 m depth



Disposal Options

- Wellington disposal rates increasing from \$270 / tonne to \$550 / tonne
- Landfills / cleanfills not accepting material from a SLUR site
- Client considered carting material to Tuakau for disposal
- Local C&D landfill consent update



Cut and Stockpile Sampling

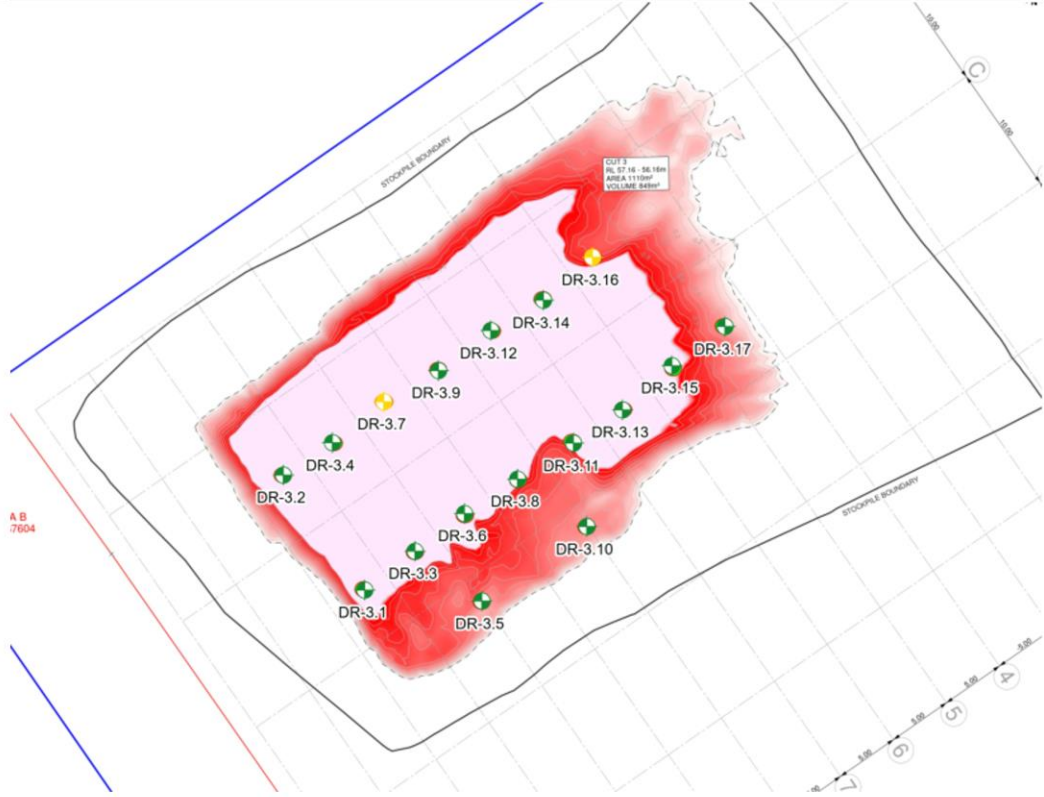
- Material from building foundation excavations placed into various stockpiles
- Sampling completed per stockpile
- Analysed for SQA and HM analysis



Reducing Remedial Areas



Sampling for C&D Disposal



Impacts to Site Works and Project Learnings

