

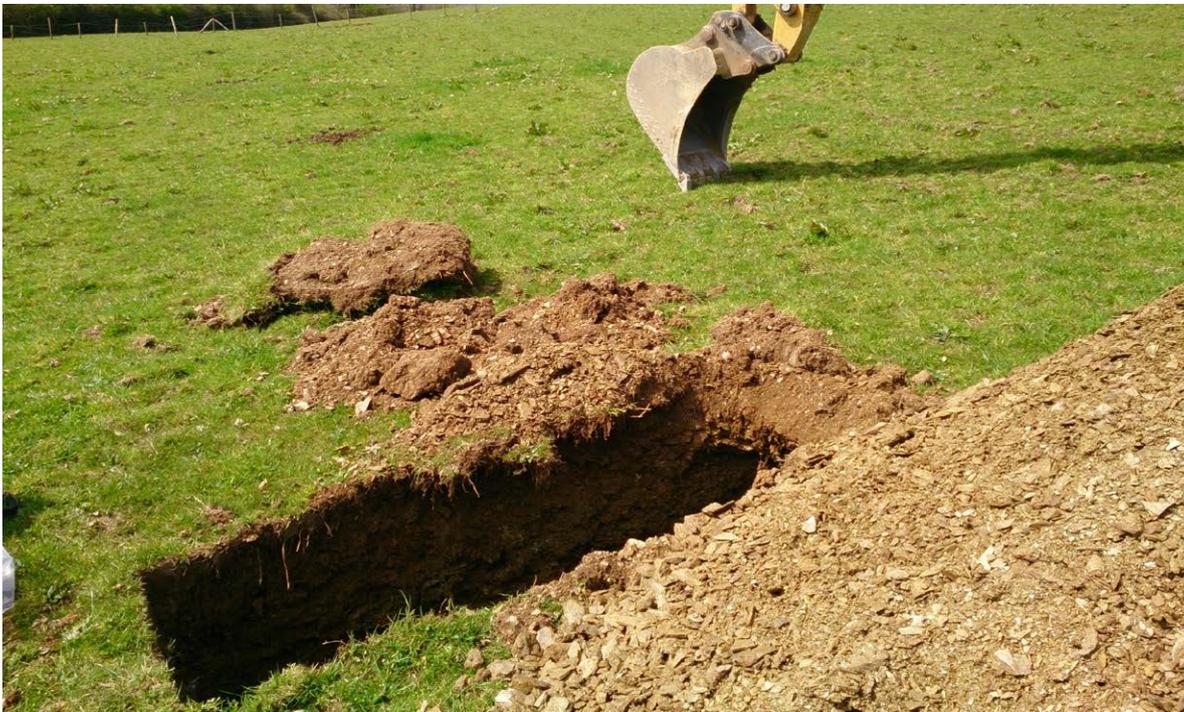
# CASE STUDY

**DISCIPLINE:** ENVIRONMENTAL CONSULTANCY  
**PROJECT:** DETAILED QUANTITATIVE RISK ASSESSMENT (DQRA)  
**LOCATION:** BANBURY  
**CLIENT:** NATIONAL HOUSE BUILDER  
**VALUE:** £2,500  
**DURATION:** 2 WEEKS

## Greenfield site: Naturally occurring Vanadium human health DQRA to challenge onerous remedial specifications.

### SUMMARY

T&P Regeneration was approached by a new client to challenge onerous remedial specifications set by others across a 30 unit housing development. Naturally occurring levels of Vanadium were reported above the national generic threshold limits and the client was facing a large bill for importation of soils to finish garden and common landscaping areas.



### SCOPE OF WORKS

A supplementary ground investigation was undertaken to retrieve soil samples for specialist leachate and bio-accessibility analysis. The results were then assessed and employed in a detailed re-evaluation of the risk to human health through the soil pore water and vegetable uptake route using the CLEA model.

The local authority was presented with a detailed chemical and exposure pathway assessment which had never before been considered by them. New site-specific levels for private gardens and areas of public space were proposed and all concentrations on site were found to be below. We drew parallels with similar successful work undertaken by us for a site in a near-by local authority district to add weight to the assessment.

### OUTCOME

The local authority accepted the higher threshold for Vanadium and the previous remediation liabilities were quashed. The timeframe was minimised through early and proactive consultation with them.

All site won soils were retained/re-used within green areas without the need to import new soils and a saving of around £200K was achieved for our client.