



CASE STUDY  
**Banbridge  
Remediation Works**



CLIENT  
**Forrme  
Construction**



LOCATION  
**Dromore Street,  
Banbridge**

# Remediation works, including **groundwater treatment and removal of Japanese Knotweed**

from a former petrol filling station and workshop site



## THE OBJECTIVE

The source removal of free product (LNAPL) and treatment of shallow groundwater from pump and treat wells. The excavation and disposal of Japanese Knotweed infected soils and the excavation, segregation and disposal of reduced quality soils

## THE ISSUES

Underlying ground conditions rendered free product removal and in-situ groundwater treatment ineffective under the original design whilst Japanese Knotweed extended beyond the boundary of the site

## THE FORTITUDE SOLUTION

- A Mobile Treatment Licence was applied for, approved and successfully deployed
- ACMs were segregated and removed by hand picking using appropriately trained and experienced personnel. Following segregation excess soils were tested, classified in accordance with EA Guidance note WM3 and removed to a suitably licenced facility
- Following the successful removal of JKW infected soils from the site, a barrier was installed at the boundary to prevent the JKW re-establishing from a neighbouring property
- Free product removal and groundwater treatment works were re-designed based on initial observations. The updated groundwater treatment design utilised bulk excavation works taking place on the site and trenches to enable full and successful free product removal and groundwater treatment
- Verification and validation monitoring during and post treatment works demonstrated successful completion of the remediation works, with successful discharge of related planning conditions