

ALR Private Landowner Well Site Investigation & Remediation



Project Profile

A former well site located on privately owned land in the Agricultural Land Reserve.

Issue

This site had hydrocarbon and chloride contamination in the sump and well centre areas, naturally elevated sodium concentrations in native soils, and isolated boron concentrations greater than the applicable standards.

Solution

SynergyAspen used MoE Technical Guidance Document (TGD) 4 to obtain a background release on sodium concentration at the Site and MoE TGD 2 to complete statistical analysis on identified boron concentrations. We also completed on-site bioremediation of the hydrocarbon contaminated soil to less than AL standards and re-using it on Site as backfill.

Outcome

SynergyAspen obtained a Part 1 Certificate of Restoration for the Site and estimated to have saved approximately \$350,000 in soil management costs through using onsite bio-remediation, and over \$300,000 for using the TG4 and TG2 and reducing the volume of metals and sodium contaminated soil requiring off-site disposal.