



LOWE ENVIRONMENTAL IMPACT Groundwater

Groundwater Take Consenting

A groundwater take consent is required when the amount needed is greater than what is allowed as a permitted activity. For comprehensive irrigation or larger water needs, a groundwater take consent is essential. Regional councils evaluate various factors, including volume, neighboring bore impact, stream flow, and groundwater allocation. Our team can provide comprehensive reports to accompany your consent application.

Aquifer Testing

Aquifer tests are used to determine level lowering effects on neighbouring bores or surface water bodies when pumping from a bore. Initial pumping lasts 4 hours, analyzing data for efficiency and aquifer parameters. Depending on results, pumping may extend up to 4 days, monitoring neighboring bores for drawdowns. These tests are often required for new water takes, bore location changes, dewatering assessments, and wastewater discharge evaluations.



How can Lowe Environmental Impact (LEI) help you?

Our groundwater expertise includes:

- **Resource Consenting** experience to assess project viability and deliver the consent required
- **Aquifer Testing** to support any consent application or groundwater assessment required
- **Characterisation** of your groundwater environment, including water levels, flow direction, contaminant pathways, and protection zones
- **Effects** on other bores, surface water bodies and saltwater intrusion
- **Irrigation** demand projections and estimates of reasonable volumes for your proposal
- **Wellbore** performance and efficiency

Who is Lowe Environmental Impact (LEI)?

We are specialists in groundwater assessments for water take consent, resource estimation, and contaminant discharge consent. From initial investigation to fulfilling council requirements, we handle it all. We can also integrate groundwater take into irrigation design, water supply, and freshwater farm plans.