LOWE ENVIRONMENTAL IMPACT

Biosolids Management Solutions

Biosolids Management in New Zealand

New Zealand generates thousands of tonnes of biosolids annually, most of which are landfilled. With landfilling becoming more difficult, local treatment and beneficial re-use are increasingly attractive alternatives. However, re-use faces challenges, including resource consent requirements, land availability, and community acceptance.

Regulatory Compliance & Community Engagement

Biosolids producers must follow local, regional and national regulations. Most re-use options require a resource consent, so understanding these requirements is essential. The Local Government Act (2002) and Resource Management Act (1991) encourage stakeholder consultation. LEI offers a research-based Community Consultation Strategy to support this process.

A Valuable Resource

Biosolids contain nutrients, organic and inorganic matter, and trace metals. Re-use can cut landfilling costs by up to 50%. Potential applications include:

- Soil amendments for construction
- Landscaping in public spaces
- Horticulture (non-food plants)
- Bioenergy crop production
- Agricultural fertiliser

Biosolids can support plant growth and reduce the need for mineral fertilisers while helping prevent soil erosion.

Who is Lowe Environmental Impact (LEI)?

LEI is a specialist science and engineering company with significant experience in biosolids research as well as practical experience. We can take your project from the initial investigation stage, deal with all local and regional council resource consent requirements and provide tailored biosolids solutions to meet the requirements of any site.

How can Lowe Environmental Impact (LEI) help you?

The solutions we provide include the recycling of different forms of biosolids, such as digested and dewatered solids, oxidation pond sludge, dried pellets, as well as all types of water and wastewater sludges. Specific biosolids expertise and services provided include:

- **Sampling** and **characterisation**
- **Site assessments**
- **Risk analyses**
- **Identify** suitable **disposal sites**
- **Resource consent** and assessment of environment effects
- **Compliance applications**
- **Community consultation**
- **Management plans**
- **Sludge removal**, **dewatering**, **transport** and **application**

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