Australian & New Zealand Biosolids Partnership

Biosolids Case Study Template

Technical Aspects			
Project Name & Location Barwon Water Short Term Biosolids Management Project Black Rock Rd. Connewarre Victoria.	Year of Commencement of Operation 2004		
 Ultimate Use of Biosolids (land application, incineration, landfill capping etc) land application 			
Organisation Barwon Region Water Corporation	 Key Contact Details Michael Naughton Coordinator Recycled Water & Biosolids Michael.Naughton@barwonwater.vic.gov.au 03 52269134 		
Quantities Dry solids (t/yr) - 6500 Moisture Content of Final 			
 Parameter Heavy Metals Zinc - C2 Copper - C2 Cadmium - C2 Other Microbial - T2 	ng State Biosolids Guidelines Definitions) Quality Classification		
• Other			
Restrictions to Use Due to Quality Applied to land as a T3 product under EPA Victoria guidelines			
Treatment Stabilisation – Aerobic S 	econdary Treatment		

• Dewatering – Gravity Deck & Belt Pre	SS		
 Further Processing (composting, drying, lime stabilisation etc.) – 12 months storage then air drying 			
• Cartage (inc approximate distance) – 30 km			
• Spreading (if applicable) – Applied by	Barwon Water contractor		
	Τ (4Φ/1) Σ ¹¹		
Unit Costs (A\$/dt)	Income (A\$/dt) – Nil		
Component Cost			
Processing			
Cartage \$44 per wet tonne			
• Spreading all up			
Environmental Management			
Requirements			
• EIP (or similar) – Required for each application site			
 Monitoring (tests & frequency) – contaminants, nutrients and 			
microbiology each 500 dry tonnes			
• Reporting - annually			

Community Engagement

Key Community Perception Issues

Issue

How Addressed

- Appearance of biosolids brown friable material
- Odours relatively odour free when dried to 70% dry solids. Strict controls on drying operations.
- Fear of Contamination Farmers are comfortable, public less so, but given the material is applied to broad acre farms for growing cereal crops seems to attract little concern when used in accordance with EPA guidelines
- NIMBY Syndrome Farming community seem relatively comfortable with the land application program. Initial concerns were with the proposal to dry the biosolids nearby. Opposition decreased when drying facility was located away from the district on Melbourne Water land.
- Other Product has become sought after by farmers due to increased yield.

Stakeholders and Engagement Methodology

Stakeholder (Individual or group) Engagement Methodology Outcome

• Federal – N/A

•	State - N/A
---	-------------

- Regional Community Meetings held in Geelong
- Local Community Meetings and Field Days held on farms in the Balliang region

Costs for Community Engagement (A\$) – Not Available

Key Learnings

- Start community consultation process as early as possible.
- Provide community with all the information possible. Ensure community is well informed early in the engagement process.
- Don't make assumptions about what community might think is important.
- Community feelings and sentiments can carry a lot of weight and need to be understood early.
- Be aware of web sites making false claims about biosolids and have good arguments ready to counter those claims.
- Community sensitivities can be difficult to turn around.
- Establish who the local community leaders are and spend time ensuring they are well informed.
- Encourage stakeholders to attend conferences and learn about biosolids for themselves. This may not change their mind but open them up to ideas that provide for a better outcome.

Testimonials	Eric Sharkey Farmer
Photos	See attachment
Approval Statement	



Sludge Storage Lagoons – 500 metres long x 50 metres wide



Drying Biosolids in drying bay



Stockpiled product ready for testing and transport



Typical biosolids land application to farms in the Balliang region



Benefits of Biosolids - Canola crop