



case study:

Bega Valley Sewage Program

The Bega Valley Sewerage Program is a \$68 million DBO (Design-Build-Operate) alliance, formed in October 2003, by Tenix, ERM and the Bega Valley Shire Council. The program included the upgrade, operation and maintenance of five existing sewage treatment plants and the construction of greenfield pressure sewerage systems, Membrane Bio Reactor (MBR) treatment plant and effluent reuse systems.

Key Features and Outcomes

Despite the many sensitive environmental challenges presented by the program:

- Tenix successfully managed the preparation of 11 Environmental Impact Assessments for the program resulting in the construction phase being brought forward by approximately 12 months.
- the community and stakeholder process (including working with the local media, briefings to key agencies and community groups, public information sessions and newsletters) has resulted in meeting all environmental Key Performance Indicators (KPIs).
- no environmental incidents or major safety non-conformances have been recorded.
- community satisfaction with the program has been measured (by survey) at 80% (target 70%).

Tenix met the budget and schedule requirements, once adjusted for client-initiated scope changes. No major QA performance or non-conformance have been identified in the ten audits conducted over the course of the program.

The Bega Valley Sewage Program has been Highly Commended at the 2006 Engineering Excellence Awards.



Tenix[®]



Field Services

- ✓ Preventative Maintenance
- ✓ Corrective Maintenance
- ✓ Fault Services (24/7)
- ✓ Asset Replacement
- ✓ New Build
- ✓ Connection services

Management Services

- ✓ Design
- ✓ Project Management & Systems
- ✓ Quality Management & Systems
- ✓ HR & IR Management
- ✓ Construction Management
- ✓ Procurement Management
- ✓ Subcontractor Management
- ✓ Cost Planning & Estimation
- ✓ Planning Approvals
- ✓ Stakeholder Management



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Our Role

Tenix was the alliance contractor responsible for program management, construction, commissioning and operation.

Resources & Skills

Tenix had approximately 20 construction, operational and support staff based in the Bega area. These have been supported by a significant number of office-based design, Safety, Quality and Environment and management staff, as well as environmental and design sub-consultants. Tenix also elected to draw heavily on local sub-contractors to support the local economy and, in all, there are around 50 locally-based people working on the alliance.

Technologically, the BVSP utilised an innovative solution, combining a pressure sewage system and four Membrane Bio-Reactor wastewater treatment plants; and horizontal directional drilling as the main method of installing the pressure sewage mains.

Asset Type: Sewerage reticulation and treatment	Duration: 15 years
Client: Bega Valley Shire Council	Value: \$70 million
Location: NSW South Coast	Scope: Construct and maintain
Contracting Style: Alliance	Contract Secured: August 2003

