HYNDS PIPE SYSTEMS BEST TECHNICAL PAPER 2010
FINALISTS

Hall A
Thursday, 10 June
1.00pm – 2.45pm

Winner announced 4.45pm

Turning CCC Waste Strategy into Reality – the new CCC Kerbside Service
Mark Christison, Water and Waste Manager, Christchurch City Council
This paper looks at the work involved in turning one of the principle objectives of the CCC 2006 Waste Plan into reality. The paper discusses the three principle elements of the $ 70 m project (wheelie bins and trucking fleet, compost plant and material recovery processing plant), the procurement and risk strategies and construction methodology behind the largest single procurement contract undertaken by CCC to date.

The logistics of the project involved the delivery of two process plants, a fleet of 50 collection trucks and 468,000 wheelie bins in a just in time manner to 368,000 residents and businesses across Christchurch and Banks Peninsula communities as the new service was rolled out across the city. The paper discusses the communication methods and information provided to residents to enable them to successfully utilise the new service from day one. Health and safety and waste diversion performance are also discussed in the paper. This project represents the largest single wheelie bin rollout undertake in Australasia to date. The first year of service has seen significant cost savings to the ratepayers as well as exceeding CCC's landfill diversion targets.

Mark Christison
Mark is a chartered professional mechanical engineer by trade and a Fellow of IPENZ. Mark has worked in private enterprise and Local Government in senior operational management positions in both Australia and New Zealand in the water, energy and solid waste industries. Mark has been the Water and Waste Manager for Christchurch City Council since November 2004. In addition to this role Mark is currently seconded to CCC Two Limited as Transitional Chief Executive Officer for this waste recovery business. Mark likes to spend his spare time with family and in the garden.

Using Performance Measurement as a Tool to Facilitate Continuous Improvements
Mark Colborn, Construction Procurement Manager, Transport Infrastructure Delivery, Auckland City Council
This submission outlines how Auckland City Council Transport Division has implemented performance measurement across several of its maintenance and renewal contracts relating to infrastructure network assets. The existing assets have a total

replacement value of approximately $3 billion. Assets include roads, footpaths, bridges, retaining walls, drainage, etc with maintenance and renewal works cost in excess of $150m p.a.

Auckland City Council implemented a performance measurement initiative in July 2009, working closely with roading contractors, consultants and various groups within the organisation. Data is collected by all parties to the contracts as well as specialist (independent) auditors who audit health, safety, environmental and contract compliance issues. The results are used to drive behaviours throughout the contract period, helping to facilitate innovation and improved performance.

The process is aligned to Auckland City's strategic procurement plan and the NZTA procurement manual. It received a commendation in the Chartered Institute of Purchasing and Supply (CIPS) Australasia awards 2009.

Mark Colborn
Currently working for Auckland City Council, Transport division as Construction Procurement Manager. Mark has a masters degree in construction management and is a committee member of the Chartered Institute of Building in New Zealand.

He has more than 25 years experience in the construction industry both in New Zealand and the UK and has held procurement management positions in both the construction and financial sectors. Mark was the author of Auckland City Council's current strategic procurement plan that was endorsed by the board of NZ Transport Agency.

Landslip Stabilisation - Turei Hill, Kawakawa Bay
Mark Faulkner, Business Manager, Opus International Consultants
Prolonged wet weather in June, July and August 2008 resulted in the mobilisation of a significant landslip above the Clevedon–Kawakawa Road in Manukau City at Turei Hill.

Perched on top of the slope was the adjacent land owners house, plus a further five houses and the important coastal road link below, were within the area encompassed by the active landslip. Accelerated movement of the slope and fears of a sudden catastrophic failure resulted in the closure of the road and evacuation of the six potentially affected properties at the end of August 2008.

Access to the communities of Kawakawa Bay and Orere Point was severed forcing residents to take a 100km long alternative route which resulted in widespread disruption and potentially devastating social impacts. The road closure attracted widespread negative local and national media attention.

This paper details the response by Manukau City Council (Council) to manage the community affects and expectations along with restoring temporary alternative access and the permanent restoration works to stabilise the landslip.

Mark Faulkner
Mark is a Chartered Professional Engineer and Project Manager with 30 years experience working throughout New Zealand primarily in the road network and asset management arena for local authorities and the New Zealand Transport Agency. He has also worked on a variety of other projects, including water and waste water schemes, parks developments, wharves and sea walls and tunnelling projects in both New Zealand and the United Kingdom. Mark has been a Member of Ingenium since 1999.