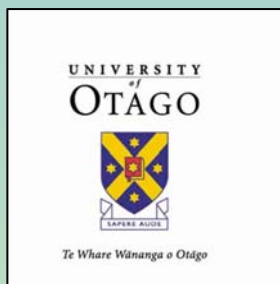




Overview of Research Programme



Dr Tony Clemens
Research Manager
CRL Energy Ltd



About the Programme

- Delivering Pathways to Mineral Wealth and Environmental Sustainability
- 6 years (2004 to 2010) FRST investment
- Environmentally sustainable development of Mineral Wealth (coal and gold) in the West Coast and Southland regions

About the Programme

- Three steps to realising mineral wealth
 - Exploration
 - Mining
 - Earning the right to mine
- A standardised decision making framework for mining industry and environmental authorities

About the Programme

- Programme overseen by Governance panel comprising industry/EA
- Decision making framework:
 - Integrates different strands of research
 - Involves input from mining companies, environmental authorities and other key stakeholders

Benefits of a Decision Making Framework

- More streamlined Process
 - Reduced time
- Increased certainty
- Avoided costs
 - Well focused monitoring requirements and regimes
 - Unsuitable sites

Structure of Programme

- Objective 1 – Assessing the Risk
 - Environmental with a geochemical focus.
- Objective 2 – Assessing the Impacts
 - On aquatic Ecosystems
- Objective 3 – Identifying Remediation Option(s)
- Objective 4 – Constructing the Framework

Structure of Today

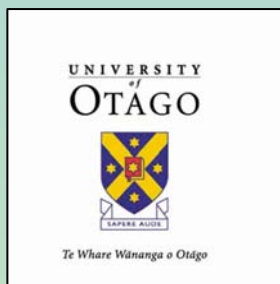
- Objective 4 – Initial thoughts on framework structure and fit within the overall mineral wealth development process
- Objective 1 – Identifying the big risk factors

Structure of Today

- Objective 2 – Relating those to observations of ecosystems and results of ecotoxicity tests
- Objective 3 – The range of remediation options available and how to choose the most appropriate.

Structure of Today

- Environmental Programme at Solid Energy
- Lunch
- Field Trip



Conclusion

Feedback from, and
involvement of, stakeholders
is essential to success

Objective Leaders

- j.pope@crl.co.nz
- dave.craw@stonebow.otago.ac.nz
- OHalloranK@landcareresearch.co.nz
- CavanaghJ@landcareresearch.co.nz
- Jon.harding@canterbury.ac.nz
- D.trumm@crl.co.nz
- buxtonr@landcareresearch.co.nz
- a.clemens@crl.co.nz