

Evaluation: Strongman against BBOP Standard (2012)

OUTLINE

- Introduction to the Strongman mine and offset
- Reasons for & approach to trial audit using BBOP Standard
 - Headline findings for the mine and offset
 - Thoughts on applying the BBOP Standard

BBOP10, Brussels 21-5-2013



The Project

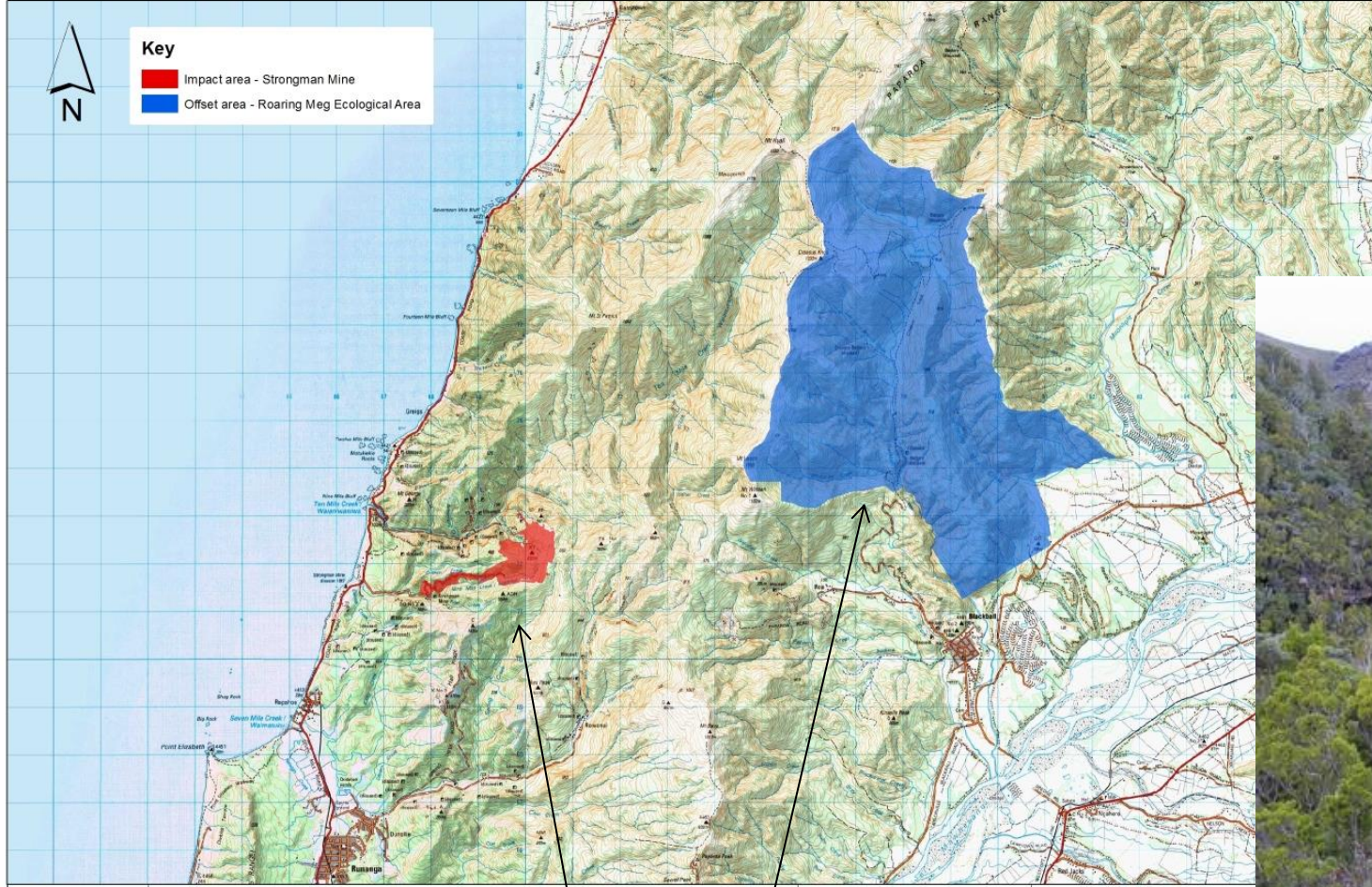
- Coal mine on West Coast of South Island (NZ)
- Various forest and shrub ecosystems affected & great spotted kiwi habitat
- Voluntary corporate commitment to NNL (going beyond RMA)
- Retrospective case & BBOP Pilot
- Trial audit to assess performance and test BBOP Standard

The Offset (Roaring Meg)

- Large area close to mine, similar biodiversity
- Conservation priority (DoC), high potential for improving condition
- Offset activities to include invasive spp removal



Location of the mine and offset



Strongman mine (red) Offset area: RMEA (blue)

Strongman & the BBOP Standard



Approach to the Evaluation (Trial Audit)

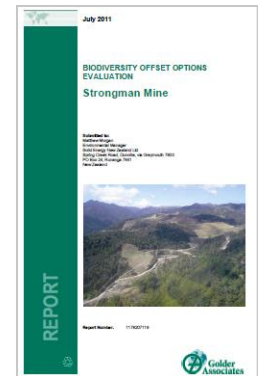
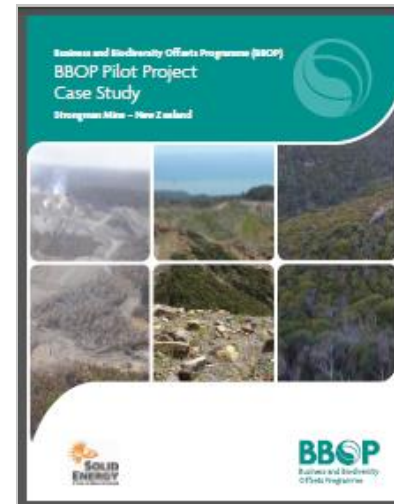
- Collection and review of relevant information (baseline studies, restoration monitoring, BBOP case study 2009, loss/gain calcs etc.)
- Site visit & interviews (August 2012)
- Detailed assessment of performance against PCI
- Reporting & recommendations

Offset Options at Mt Watson

G106											
=(G97/((1+\$I\$1)^G\$22))+(G88/((1+\$I\$1)^G\$22))											
Location	Mt Watson	dbsrc=rate									
Vegetation Communi	all veg types										
Site Description	Area (ha)	Effect type	minq	Specier Area Exp	1						
Impact 1 Forest	111.63	Permanent	1	1							
Impact 2	43.29	Permanent	1	1							
Impact 3	243.63	Pro-Other Control	1	1							
Impact 4	521.63	Pro-Other Control	1	1							

Flow data inputs - slate														
Flow type	Attributes	Measurement method	Base	Year 1	Year 2	Year 3	Year 4	Year 5	Year 10	Year 15	Year 20	Year 30	Year 40	Year 50
soil	soil depth	area:total:area:dist	90.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
soil	soil depth	area:total:area:dist	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
soil	soil depth	area:total:area:dist	50.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
soil	soil depth	area:total:area:dist	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
soil	soil depth	area:total:area:dist	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Biodiversity Composition Condition Estimation														
Flow type	Attributes	Measurement method	Base	Year 1	Year 2	Year 3	Year 4	Year 5	Year 10	Year 15	Year 20	Year 30	Year 40	Year 50
soil	soil depth	area:total:area:dist	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
soil	soil depth	area:total:area:dist	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
soil	soil depth	area:total:area:dist	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
soil	soil depth	area:total:area:dist	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
soil	soil depth	area:total:area:dist	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000



Headline findings: Project & Offset

- Striving to apply good practice, in line with the Standard (e.g. Loss/gain, site selection, Offset WG, collab with DoC)
- Conformance currently partial, several aspects could not yet be assessed (e.g. P 7 & 8; other implementation-related indicators)
- Feasibility of NNL? Not yet possible to say, but emergent trees present a challenge.
- Still to do / do better: Implement (! funding), document (e.g. additionality, also BOMP), review and account for new impacts (mining restarted).
- NB: difficult timing (late 2012) for SENZ

- Standard v. comprehensive & covers design, implementation – means full conformance will take time
- Importance of BOMP – without this several indicators difficult to assess (e.g. P. 5, 8)
- Indicators covering range of requ's - harder to assess
- Specialist understanding needed to do justice to evaluation: tricky to assess L/G calculations & overall: attention to the specifics of requirements under PCI important.
- Some gaps: N.B. Actual achievement of NNL & timeframe for achieving NNL
- Use of BBOP Standard facilitates good practice due to explicit requirements (e.g. Stakeholder engagement)

Acknowledgements to:

- The **Strongman team**, Solid Energy New Zealand, for assisting with the trial audit of the BBOP Standard by providing information, arranging site visits, and interviews.



Prepared by **Amrei von Hase (Forest Trends)** in collaboration with **Mark Pizey (Solid Energy)**