

## APPENDIX 22: STAKEHOLDER ENGAGEMENT 2004 TO 2011

**Table 1: ACH Minerals – Ravensthorpe Gold/Copper Project - Stakeholder Engagement Register 2004/2005**

Date	Description of Engagement	Stakeholders	Stakeholders comments/issue	Proponent response and/or resolution	Stakeholder Response
22-Sep-2004	Correspondence	DIA (now Department of Aboriginal Affairs (DAA))	Section 18 approval given to construct the haul road through the Jerdacuttup River, an Aboriginal mythological site.		
30-Sep-2004	Meeting - project development Attendees included: Tim Gentle	Department of Environment (DoE)			
27-Oct-2004	Presentation Addressed to Hopetoun community members at Hopetoun Mary Anne Haven Centre	Hopetoun Community	<ol style="list-style-type: none"> <li>1. What will the possible impact be on the Kundip project if the RAV 8 mine continues? (Rusty Lee)</li> <li>2. What is the size of the projected workforce?</li> <li>3. Is the airport going to be restricted to BHP workforce?</li> <li>4. Will TTR reinforce the Hopetoun-Ravensthorpe road between Trilogy and Kundip, as it is a light duty road (John Field)?</li> <li>5. What is the weight of each load?</li> <li>6. What effect will result from the blasting &amp; size of blasts, noise generated inversions etc.?</li> <li>7. Do you require Cyanide for both CIP and CIL?</li> <li>8. Will the Trilogy open pit be operated over a 24 hour period, and how much light pollution will be generated?</li> <li>9. Is there any ground water generated, is it saline and where will it go?</li> <li>10. Will the haul road from Kundip to RAV 8 be open for public access?</li> <li>11. What will happen to the water coming out of Trilogy?</li> <li>12. How big would the TSF be if RAV 8 keeps going?</li> <li>13. Will there be much visual change to the</li> </ol>	<ol style="list-style-type: none"> <li>1. Will need to look at alternative TSF &amp; there is a commitment to retain product on the mining tenement.</li> <li>2. Employ approx. 50 &amp; 60 specifically for mill construction over 7-9 months, commencing potentially in March/April; Employ 40 personnel in the open pit mining stage; Employ 20 personnel for ore processing; Employ approx 100 personnel total in U/G and open pit over 2-3 years.</li> <li>3. No &amp; it is owned by the Shire -public infrastructure</li> <li>4. No &amp; Main Roads have given TTR approval to use the road without upgrading it &amp; weight limited loads.</li> <li>5 The trucks will carry approx 50 tonnes each</li> <li>6. The size of the blasts will be confined to specification defined within the mine regs.</li> <li>7. Yes &amp; explanation on CIP/CIL process &amp; cyanide levels do become concentrated in the tails stream</li> <li>8. The mine will operate over 24 hours &amp; duration of the mine may only be 2-3 months. The light pollution will be minimal &amp; no process plant located at Trilogy, project confined to the northern side of Lee road and lights only on the pit floor and waste dump tip head.</li> <li>9. Yes, Trilogy will produce 250 m3/day to a depth of 35 m, salinity ranges from 15,200 to 24,400 TDS. Kundip minimal flows were encountered.</li> <li>10. No &amp; it will remain a closed haul road for the life of</li> </ol>	

Date	Description of Engagement	Stakeholders	Stakeholders comments/issue	Proponent response and/or resolution	Stakeholder Response
			Landscape at Trilogy?	<p>the mine, it will be constructed to Shire specifications and handed back to them on completion of the project.</p> <p>11. The water will be retained on site, situation monitored to ensure nothing is transferred off the lease.</p> <p>12. Option could be to slow the PRGP and speed up mining of the RAV 8 deposit so that they can be concurrent.</p> <p>13. TTR as owners of the land have the option to limit the height of the waste dump by increasing the size of the footprint œ large financial penalty involved.</p>	
28-Oct-2004	Meeting to discuss project	Ravensthorpe Chamber of Commerce			
29-Oct-2004	Presentation to Ravensthorpe community members at Ravensthorpe Red Room	Ravensthorpe Community	<ol style="list-style-type: none"> <li>1. What will the traffic increase be on the Ravensthorpe-Esperance road?</li> <li>2. Is it correct that TR will not be using water from the storage dam?</li> <li>3. How will the Tailings affect the water table in pit?</li> <li>4. Where will the haul road cross freehold land</li> <li>5. How will crossing the South Coast Highway be handled?</li> <li>6. What type of truck will we use?</li> <li>7. Will the discrete nature of the ore impact on the exploration cost and miners profitability?</li> <li>8. What length of fence will there be along the railway/heritage walk?</li> </ol>	<ol style="list-style-type: none"> <li>1. TTR is undecided if the final port is Fremantle or Esperance œ transport from site will be same or less than current with transport of Nickel to Kambalda.</li> <li>2. No -water will be used in the process, it will be taken from the dam to the mill and then to the pit. Environmental impact of dam is controlled and will continue to be.</li> <li>3. Addressed within EPS</li> <li>4. Alan Burton's Western boundary, along Rod Daw's southern boundary</li> <li>5. Lights at night, signage alerting oncoming traffic of crossing, 50m of bitumen at the crossing</li> <li>6. Ore haulage in the open pits will be by either 50 or 85t off highway trucks, v-double road trains of 50t payload for ore haulage from the mines to the RAV 8 processing facility</li> <li>7. Yes ultimately result in a higher discovery cost per ounce although TTR hope solid geological modelling will reduce some cost.</li> <li>8. The railway heritage walk will be fenced along the length that runs parallel with the edge of the Kundip mining lease.</li> </ol>	

Date	Description of Engagement	Stakeholders	Stakeholders comments/issue	Proponent response and/or resolution	Stakeholder Response
2-Nov-2004	Presentation of Phillips River Gold Project to Tim Gentle and Wally Cox	EPA	1. Submit the project to the DEH ø Tim Kahn 2. Need to consult with Wildflower Council and Conservation Council.	1. Project referred to the DEH and response received 2. Discussed project with both Wildflower Society and Conservation Council.	
10-Nov-2004	Meeting on-site to discuss Haul Road	Shire of Ravensthorpe			
11-Nov-2004	Meeting with Sarah Barrett and Sarah Comer onsite to discuss <i>Marianthus mollis</i> and <i>Allocasuarina scleroclada</i> subsp <i>Bandalup</i> within the haul road	CALM			
16-Nov-2004	Meeting with Sarah Barrett onsite at Kundip to discuss <i>Marianthus mollis</i>	CALM			
17-Nov-2004	Phone call to Brian Moyle regarding project development	Wildflower Society			
25-Nov-2004 and 13-Dec-2004	Met Ann Cochran on site at Kundip to collect <i>Marianthus mollis</i> , <i>Pultenaea</i> sp Kundip and <i>Melaleuca</i> sp Kundip.	CALM			
14-Dec-2004	Discussion regarding project development	Michael Hughes			
16-Dec-2004	Meeting	Shire of Ravensthorpe			
21-Dec-2004	Meeting to discuss project	DOIR	1. R Sherwood-filling voids UG in RAV 8 critical	1 Points addressed to I Misich (email 220905)	



Date	Description of Engagement	Stakeholders	Stakeholders comments/issue	Proponent response and/or resolution	Stakeholder Response
	DOIR Representatives: Bill Biggs Ian Misich Rob Sherwood Danielle Risbey				
4-Jan-2005	Phone call to discuss project	Heritage Council			
5-Jan-2005	Phone call to Lara Watson to discuss project	Department of Environment and Heritage			
7-Jan-2005	Phone call to Ron Johnston regarding management of Carnaby's Cockatoos			Management measures incorporated within EPS document.	
7-Jan-2005	Phone call to Angela Sanders regarding incubation of eggs and techniques for surveys of malleefowl nests	Malleefowl Preservation Group		Incubation of eggs and techniques for surveys included as a commitment within EPS document.	
12-Jan-2005	Phone call to Leonie McMahon	Birds of Australia			
12-Jan-2005	Phone call to Nathan McQuoid regarding development of project in relation to Gondwanalink Project	Gondwanalink Project			
19-Jan-2005	Presentation of project to DoE Representatives: Catherine MacCallum Sharon Stratico Melanie Price	DoE Albany			

Date	Description of Engagement	Stakeholders	Stakeholders comments/issue	Proponent response and/or resolution	Stakeholder Response
21-Jan-2005	Presentation of project to Norm Caporn, Daniel Coffey and Malcolm Grant	CALM	<ol style="list-style-type: none"> <li>1.Exploration tracks</li> <li>2. Track rationalisation around site</li> <li>3. Include all records of malleefowl mounds</li> <li>4. Part V DoE process should capture all detail including all exploration in future years</li> <li>5. Gravel pits should also be included in disturbance footprint</li> <li>6. Piers Goodman, Portman Iron Ore is doing self-contained drainage along the road</li> <li>7. Offsets need to be negotiated (consider EPA guidance)</li> <li>8. Will need a priority and DRF table showing all known locations, populations at Kundip and overall impact</li> </ol>	<ol style="list-style-type: none"> <li>1. No intent to rehabilitate or reveg immediately as they will be used for seed picking access œ they are a component of the long term conceptual planning</li> <li>2. This has been done œ planning is underway</li> <li>3. Is a commitment within the EPS</li> <li>4. All future clearing will be included with works approval application</li> <li>5. Will include within disturbance</li> <li>6. Piers was contacted and some information was sent to TTR for consideration</li> <li>7. Offsets presented in EPS 8. Tables included within EPS</li> </ol>	
27-Jan-2005	Meeting with Peter Wood to discuss development of haul road	Shire of Ravensthorpe			
28-Jan-2005	Phone call to Clair Schultz regarding Harbour View mine shaft	Heritage Council	Requested further information on Harbour View mine shaft	Further information sent through on 21 February. Letter received from Heritage Council on 16 March 2005 indicating that it has been removed from the backlog of Heritage Places.	
14-Feb-2005	Meeting - to discuss development of Haul Road Attendees included: Mal Grant (CALM ) Peter Wood (Shire of Ravensthorpe)	CALM and Shire of Ravensthorpe			
30-Mar-2005	Phone call to Chris Tallentire to discuss project	Conservation Council	Did not wish to be briefed on the project until after receiving a copy of the NOI		
30-Mar-2005	Phone call to Brian	Wildflower			

Date	Description of Engagement	Stakeholders	Stakeholders comments/issue	Proponent response and/or resolution	Stakeholder Response
	Moyle to discuss project	Society			
19-Apr-2005	Meeting with Russell Weston regarding ablation blocks for Project	Shire of Ravensthorpe			
20-Jun-2005	Phone call to ask if any queries with regards to Trilogy NOI	Conservation Council	No questions as yet		
21-Jun-2005	Phone call to ask if any queries with regards to Trilogy NOI	Wildflower Society	No questions as yet		
22-Jun-2005	Meeting with Daniel Coffey and Grant Lamb to discuss Trilogy NOI	CALM			
22-Jul-2005	Meeting to discuss Trilogy NOI and incoming Kundip NOI Attendees include: Ann Stubbs, John Dell, Bec Ryan and Tim Gentle	DoE Perth	<ol style="list-style-type: none"> <li>Needs an analysis of alternative Haul roads and a justification for selection</li> <li>Consider Ecological Linkages, Mine Closure Planning, Acid Mine Drainage and Offsets as Factors within EPS document</li> <li>Pines are now no longer recommended for use as habitat for Carnaby's Cockatoos</li> <li>A Rehabilitation strategy and closure strategy will be required for Trilogy and Kundip respectively.</li> </ol>	<ol style="list-style-type: none"> <li>To be include within EPS document</li> <li>Will be included within EPS document</li> <li>Pines will be removed from the list of species proposed for rehabilitation</li> <li>A Trilogy rehabilitation strategy and Kundip closure strategy will be developed for inclusion within the EPS document.</li> </ol>	
1-Aug-2005	Comments provided on the Trilogy NOI	CALM	<ol style="list-style-type: none"> <li>Provide sufficient details on the construction standards of the WSF to indicate its capacity of withstanding an earthquake</li> <li>Submit a detailed decommissioning plan for the Trilogy site prior to approval</li> <li>Do not recommend the planting of Pinus species as a foraging offset for Carnaby's Black Cockatoos</li> <li>Clarify that 1.45ha of vegetation impacted by haul road with M74/51 is existing road infrastructure</li> </ol>	<ol style="list-style-type: none"> <li>TWSF assigned a hazard rating of Low Category 3, based on DOIR classification criteria and will be constructed in line with these DOIR classifications</li> <li>Decommissioning plan included within the EPS</li> <li>Removed Pinus species from the revegetation programme</li> <li>The road alignment for construction will overlap existing roads/tracks wherever possible.</li> </ol>	

Date	Description of Engagement	Stakeholders	Stakeholders comments/issue	Proponent response and/or resolution	Stakeholder Response
			5. Provide information on alternative routes that have been assessed and explanations why these were not considered viable 6. Address operational and management procedures for sumps and drainage etc within EMP 7. Greater detail needs to be supplied to determine the actual clearing required 8. Prepare a comprehensive dieback management plan 9. Make reference to potential impacts from fox predation 10. Negotiate offsets.	5. Included within EPS 6. Will be addressed within EMP 7. Included within EPS 8. Included within EPS 9. Included within EPS 10. Included within EPS	
7/8-Sep-2005	Site visit of the entire Project area. Regulators include: Catherine MacCallum (DoE), Mal Grant, Grant Lamb and Nisha Powell (CALM), Danielle Risbey (DoIR), Ann Stubbs (EPASU)	DoE Albany CALM DoIR EPASU	1. Will 2 new flora species be impacted by non-direct mining activity? 2. Will dieback management be ongoing? 3. Are there plans for weed management on the rehabilitated areas? 4. Are there any measures in place to control water and dust for dieback control? 5. What if active malleefowl mounds are found? 6. Does the decommissioning plan discuss rehabilitation of the creeks? 7. Is there any chance of tailings seeping to surrounds? 8. Any levels been set for detection levels of — effect“ and procedure? 9. Any research to reduce deposition rates of Cu, CN, Pb in tailings? 10. Is the Trilogy sulphide ore any consequence to the tailings storage? 11. Why wasn't the plant moved to Trilogy? 12. What are the plans for the lead-enriched waste? 13. Have you considered vegetation stress as a consequence of dust?	1. No they are located outside the zone of hydrological and dust influences 2. Yes a dieback management plan is currently being prepared 3. Yes rehabilitation plans including weed management will be included in EPS 4. Properly engineered spoon drains to contain surface runoff œmanagement will be detailed within EMP 5. Eggs will be re-located and incubated 6. Diversion structures will remain as permanent structures œ banks will be rehabilitated 7. Rockwater estimate it will take 50yrs for tails to travel 1km to creekline 8. Will assess against baseline levels and determine appropriate levels in consultation with DoE 9. Initially will be lower levels, primary ore has greater potential to look at CN destruction 10. There are no plans to extract sulphide ores from Trilogy yet 11. For both environmental and cost benefit 12. It will be contained with the PAF material 13. A commitment will be made to monitor DRF and	

Date	Description of Engagement	Stakeholders	Stakeholders comments/issue	Proponent response and/or resolution	Stakeholder Response
			<p>14. Have you considered the use of a dust suppressant</p> <p>15. Have the effects of noise from mining operations on fauna been taken into account?</p> <p>16. CALM would prefer that the haul road be removed post-mining and the fire management track re-instated</p> <p>17. Is there any provision for backfilling?</p> <p>18. Consider new light shrouds, nominated for a golden gecko award</p> <p>19. Fire management</p> <p>20. Concerns about crossing of creek A at Trilogy site</p> <p>21. Has seismic activity been taken into account for the WSF?</p> <p>22. Is there a plan to keep fauna out of pits at Kundip?</p> <p>23. Establish 10x10m vegetation quadrats for rehab purposes</p> <p>24. Undertake a spring survey within the footprint of the proposed waste dumps</p> <p>25. Forward baseline groundwater monitoring data to DoE and consultatively set acceptable Cu limits</p> <p>26. Investigate feasibility of reducing haul road width in portions</p> <p>27. Investigate offsets.</p>	<p>priority species for dust impacts</p> <p>14. Will be investigated</p> <p>15. It has been taken into account and there were no adverse effects at Rav8</p> <p>16. Will be discussed with the Shire of Ravensthorpe</p> <p>17. All pits that don't have underground access or infrastructure requirements will be backfilled</p> <p>18. Will be investigated</p> <p>19. Will commit to preparation of a fire management plan</p> <p>20. Diversion of the creek will not have any impact on the flows</p> <p>21. Yes the Trilogy WSF was moved off the Whoogarup Fault Line.</p> <p>22. Through the installation of abandonment bunds</p> <p>23. Is a commitment within EPS</p> <p>24. Will be included as an addendum to the EPS</p> <p>25. To be done for Part V Works Approval</p> <p>26. Within EPS</p> <p>27. Addressed within EPS</p>	
Xx??	Presentation of Project to Committee	Hopetoun Ravensthorpe Railway Heritage Trail Steering Committee			
12-Oct-2005	Submission of Draft EPS Document for comment.	Conservation Council	No response as yet.		

Date	Description of Engagement	Stakeholders	Stakeholders comments/issue	Proponent response and/or resolution	Stakeholder Response
12-Oct-2005	Submission of Draft EPS Document for comment	Wildflower Society	<p>It is not clear why there is an offset of 49 ha for the clearing of 84.5 ha. Also the values of the 49 ha are not outlined. Whilst we don't necessarily agree that offsets are an appropriate way of compensation it is often better that a project not proceed if it is to have significant impacts on an area, we wonder why only 49 ha is seen as sufficient offset for a major impact on a proposed nature reserve. Also we believe DOIR need to be included in the consultation. They have a habit of objecting to the inclusion of any area into the conservation estate. We would argue that if the project is to go ahead subject to what the EPA says finalisation of the 49 ha plus some additional area should be in the conservation estate prior to ministerial consent being given. It should also be classified as a A Class nature reserve otherwise its conservation status is not secure. We are aware that the DOIR have held up for many years land being included in the conservation estate. It is also appropriate that finalising the proposed nature reserve in the conservation estate is also made part of these discussions. We are also concerned about the use of highly saline water for dust suppression. this has the potential to have significant adverse impacts on the surrounding flora. As regards rehabilitation and closure we would want to see some raft completion criteria particularly as regards flora biodiversity and also the monitoring timeframe. This project while only lasting maybe four years has the potential to have a significant adverse impact on the area. We would be happy to discuss these matters with you and also would like to know when the final EPS will be available.</p>	<p>Offsets Your concern with regards to the proposed offset of purchase of 49ha of vegetation for addition to the conservation estate has been raised previously by CALM and DoE. We are currently negotiating an alternative offset package, that will include purchase of land (&gt;49ha) as well as contributions to regional conservation through vegetation and flora surveys, fox baiting and the millennium seed project. An appropriate offset package is being determined in consultation with CALM and DoE. DOIR has had an opportunity to review the Draft EPS and has provided some comments. We are not aware if CALM, DOIR and DoE are discussing the status of the proposed nature reserve. Saline water for dust suppression Since the draft EPS that you have seen, we have considered the potential impacts on vegetation and flora from using saline water for dust suppression. In light of the potential impacts along the haul road, we have proposed not to use any dust suppressant in the first instance. Should impacts be detected, we propose to use fresh water or other dust suppressants. Fresh water will be used preferentially within the Kundip site. Rehabilitation and Closure Species richness and plant abundance targets have been set in the Draft Kundip and Trilogy Rehabilitation and Closure Plans (see points R6.19-R6.21 of Table 2). These will be subject to review based on rehabilitation experience. Closure standards, objectives and criteria in terms of defining monitoring of rehabilitation will be further developed as the project progresses and there is more of an idea of site specific needs and requirements. At this stage it is proposed that the EPA Bulletin and Final EPS are released on January 3<sup>rd</sup>.</p>	
25-Jul-2016	A pre-referral discussion with OEPA. <i>APM representatives:</i> - Dr Mitchell Ladyman	Office of the Environmental Protection Authority			

Date	Description of Engagement	Stakeholders	Stakeholders comments/issue	Proponent response and/or resolution	Stakeholder Response
	<ul style="list-style-type: none"><li>- Sharon Arena</li></ul> <i>ACH representative:</i> <ul style="list-style-type: none"><li>- Edmund Ainscough</li></ul> <i>OEPA representatives:</i> <ul style="list-style-type: none"><li>- Richard Southerland</li><li>- Stephen Danti</li></ul>	(OEPA)			

# **Phillips River Mining NL Stakeholder Consultation Report As at: 14 October 2011**

---

## **Stakeholder Consultation Strategy**

This chapter provides a detailed overview of the stakeholder consultation process that Phillips River Mining NL (Phillips River) (Previously Tectonic Resources NL) has undertaken prior to the referral of its proposal for its Phillips River Project (the Project) to the Environmental Protection Authority (EPA). It has been designed to assist with the EPA's assessment of the proposal, and to demonstrate Phillips River's ongoing commitment to a best practice approach to environmental management.

Phillips River embarked on a transparent stakeholder and community engagement process very early in the planning stage, and will continue this process during the environmental approvals process and throughout the life of the Project. The program is consistent with the Interim Industry Guide to Community Involvement (Department of Environment, Dec 2003), and with feedback received from the EPA throughout this process.

Phillips River has been part of the Hopetoun / Ravensthorpe region since 1997 and over this time has developed a strong and active role in the local communities as a key employer and contributor. The company looks forward to continuing this role while developing the Project in a manner that balances responsible management of the environment and the provision of real economic and social benefits to the community.

The company has worked closely with specialist consultants, including Outback Ecology and Purple Communications to deliver a robust strategy of consultation. Notably, Phillips River is fortunate to have an existing employee-base in the Ravensthorpe region, and their input and support has played a major role in the community engagement and consultation process.

The first consultation program was rolled-out in 2004-2005 based on the initial proposal for the then Phillips River Gold Project. Since then, the proposal has been altered substantially and so a subsequent consultation program was developed and implemented over recent years, culminating in an intensive campaign between February and July 2011.

## **Aim of Stakeholder Consultation**

The aim of the stakeholder consultation undertaken for the proposed Project has been to:

- Build strong working relationships with key stakeholders through open and transparent communication
- Educate stakeholders about the Project and the impact it will have on the community
- Provide a forum for stakeholders to participate and contribute in a meaningful way to discussions, to raise concerns, and have their questions about the Project answered
- Provide opportunities for input and feedback to inform Project decision-making
- Monitor any issues and concerns about the Project raised by stakeholders to allow Phillips River to develop effective mitigation and enhancement strategies quickly and effectively



- Capture and report on stakeholder feedback, and utilise this information to plan future consultation efforts

## **Identification of Stakeholders**

Key stakeholders identified and consulted during the preparation of the PER document included:

### ***Key Members of State Government***

- Office of the Premier and Minister for State Development
- Office of the Minister for Environment
- Office of the Minister for Mines
- Office of the Minister for Transport
- Office of the Deputy Premier and Minister for Health; Tourism
- Office of the Minister for Energy
- Office of the Minister Assisting the Minister for State Development (with respect to Regional Development; Lands only)
- Office of the Minister for Regional Development
- Member for Eyre

### ***Key Government Departments/Agencies***

- Department of Mines & Petroleum (DMP)
- Environmental Protection Authority (EPA)
- Department of Environment and Conservation (DEC)
- Department of State Development (DSD)
- Department of Transport (DoT)
- Main Roads WA
- Department of Health (DoH)
- Centre for Renewable Energy (CRE) (Commonwealth)
- Department of Climate Change & Energy Efficiency (DCCEE) (Commonwealth)
- Department of Resources & Energy (DRE) (Commonwealth)

### ***Local Government & Authorities***

- Shire of Ravensthorpe
- Shire of Esperance
- Goldfields Esperance Development Commission
- Esperance Port Sea & Land (EPSL)
- Fremantle Port
- CASA
- FESA

### ***Local Business & Business Associations***

- Ravensthorpe Regional Chamber of Commerce
- Esperance Chamber of Commerce
- WA Chamber of Minerals & Energy

### ***Community and Non-government Organisations (NGOs)***

- South West Aboriginal Land & Sea Council

- Esperance Port Consultation Committee (EPCC)
- Ravensthorpe Progress Association
- Hopetoun Progress Association
- Munglinup Community Group
- Jerdacuttup Community Association
- Ravensthorpe Hopetoun Coordination Group
- Wildflower Society of WA
- Malleefowl Preservation Group
- Birds of Australia
- Hopetoun Ravensthorpe Railway Heritage Trail
- Heritage Council of WA
- Ravensthorpe Historic Society
- Conservation Council of WA

### ***Media***

- ABC Goldfields-Esperance
- Esperance Express
- Kalgoorlie Miner
- Community Spirit
- Hope FM

### ***Local residents***

### ***Service Providers***

## **Level of Engagement**

Phillips River undertook a detailed analysis to establish the appropriate level of community involvement for the Project consultation program. While the Project represents a relatively simple and non-controversial proposal, the company is very mindful of the pre-existing sentiment surrounding the shipment of lead, and the significance of this issue to the community of Esperance.

However, unlike the lead carbonate that was shipped through Esperance previously, the lead sulphide product that Phillips River will be producing has very low solubility, with low bioavailability which makes it inherently safe in comparison and a very common bulk export product worldwide. Additionally, lead sulphide will make up a relatively minor percentage of the concentrate exported. Even so, all concentrates will be double-bagged and containerised on site prior to being transported by road to the Esperance Port for shipping. Notably, these precautions are beyond world's best practice for this type of material.

Given these extremely rigorous management measures to allay community concerns, and the nature of the Phillips River Project proposal, the most appropriate level of engagement using the Spectrum of Community Involvement (as defined by the Interim Industry Guidelines to Community Involvement- DoE 2003) was deemed to be 'moderate to high' with public participation ranging from a level of "consult" to a level of "involve". This means Phillips River has:

- Sought input and feedback on the proposed Project
- Kept stakeholders informed
- Listened and acknowledged stakeholder concerns

- Provided feedback on how stakeholder input has influenced Project decisions

## Approach to Stakeholder Consultation

### *Government Consultation*

Substantial consultation was taken with identified key stakeholders within Government in the lead up to the referral of the Project to the EPA. Briefings and project updates were provided to the Offices of the Ministers for Environment, Mines, Transport, Power and Regional Development, as well as local Members. In addition, workshops, meetings and site visits were held with Government representatives across all relevant agencies. These forums provided an opportunity for meaningful two-way discussion, and input from this process was used to shape the Project parameters.

A list of the site visits, meetings and workshops and their outcomes is contained in the Stakeholder Consultation Register in Appendix A. Detailed minutes are available upon request.

### *Community consultation*

Comprehensive community consultation has also been undertaken throughout 2011, with the preparation and implementation of appropriate communication and engagement forums. A key purpose of the community consultation was addressing pre-existing concern regarding the transport of lead to, and export from Esperance Port.

Consultation involved local government and non-government organisations; environment and heritage groups; Esperance Port, Land and Sea; Chambers of Commerce; Goldfields Esperance Development Commission; residents of Hopetoun, Ravensthorpe, Jerdacuttup, Munglinup and Esperance and; media and the private sector. Stakeholders identified and consulted as part of the Project to date are listed in the Stakeholder Consultation Register in Appendix A.

The company has since been in contact with the South West Aboriginal Land and Sea Council and is scheduled to provide a full update at a meeting August 10<sup>th</sup>. Engagement will continue throughout the life of the Project.

Approximately 478 stakeholders were consulted between February and July 2011. A significant component of this engagement included community forums which were held in Ravensthorpe, Hopetoun and Esperance in July, where more than 150 community members attended and were given the opportunity to ask questions and provide comment on the Project.

Please see the table below for a breakdown of the number of stakeholders consulted prior to the commencement of the environmental approvals process.

### *Number of stakeholders consulted: Feb – Jul 2011*

STAKEHOLDER GROUP	# CONSULTED
State Government Ministers	9
Government Agencies	11
Local Government Authorities	5

Local businesses and business associations	240
Community & non-government organisations	19
Media	8
Local residents	159
Service providers	27
<b>TOTAL</b>	<b>478</b>

### ***Consultation with Native Title Claimants***

A Native Title agreement for the Project was signed with the WagylKaip / Southern Noongar Peoples in 2010 (National Native Title Tribunal Application # WF09/2). The agreement encompasses the applicable tenements including M74/180, L74/34 and L74/45.

The company has since been in contact with the South West Aboriginal Land & Sea Council to offer regular briefings, and this engagement will continue throughout the life of the Project.

Native Title agreements are not required for tenements M74/51, M74/53 and M74/41 as these were issued prior to 1994 and therefore prior to the introduction of Native Title. The main licence at Trilogy is M74/35 and this is wholly contained within free hold farming land owned by Phillips River.

### ***Community Investment***

As part of Phillips River's commitment to engaging with the communities in which it operates, the company provides financial and in-kind support for local events, organisations and initiatives in the areas of environment, health, education and sport. The company has established a \$30,000 per annum community fund and recipients to date include:

- Ravensthorpe Volunteer Fire Brigade
- Ravensthorpe & District High School
- Esperance Senior High School
- Hopetoun Junior Football Club
- Hopetoun & Ravensthorpe Golf Club Hacker Day
- Ravensthorpe St Johns Ambulance
- Esperance Cannery Art Gallery
- Men in Sheds

Phillips River has also contributed to a number of environmental initiatives over recent years including the DEC's 'Western Shield' program, the Millennium Seed Bank, weed eradication along roadsides and regional flora surveys.

## **Consultation and Communication Methods**

Consultation with government representatives was primarily achieved through workshops, presentations and meetings, while consultation with the community was through a number of 'one-way' and 'two-way' channels.

### ***Stakeholder consultation methods***

<b>Method/Approach</b>	<b>Description/Detail</b>
<b>Workshops</b>	Inter-agency workshop; DEC workshops; EPA workshops. Detailed two-way discussion around various alternatives. Feedback taken on board to shape the project parameters and development strategy.
<b>Ministerial briefings</b>	Minister for Environment (representatives), Minister for Transport (representatives), Minister for Mines and Petroleum, Minister for Energy (representatives), Hon. Wendy Duncan, Parliamentary Secretary to the Minister for Regional Development Dr Graham Jacobs MLA, Member for Eyre Detailed presentation targeted to points of interest for each stakeholder. Lengthy discussion and feedback taken on board to shape the project parameters and development strategy.
<b>Stakeholder meetings</b>	Detailed presentation targeted to points of interest for each stakeholder. Lengthy discussions and feedback taken and responded to appropriately.
<b>Conference presentation</b>	Detailed presentation in Esperance at both the Goldfields Esperance Development Commissions 'Over the Horizon' Business & Industry conference and the Eastern Goldfields Yilgarn Resource Developments conference attended by 240+ people - mostly local businesses. Questions taken and responded to appropriately.
<b>Community liaison representative / info-line</b>	Advertised in Esperance Express, Kalgoorlie Miner, Community Spirit and Hope FM. Received approximately 14 calls, 7 emails and 30 people contacting the regional office directly, relating to expressions of interest for employment and information on the community forum events.
<b>Project Update / Newsletter</b>	See Appendix B (Communication Material). Distributed to key government stakeholders and to all Post Office Boxes in Ravensthorpe, Hopetoun, Munglinup and Jerdacuttup. Also sent to all relevant stakeholders including members of Ravensthorpe Progress Association, Hopetoun Progress Association, Munglinup Community Group, Jerdacuttup Community Association, Ravensthorpe Hopetoun Coordination Group, Ravensthorpe Regional Chamber of Commerce, Goldfields Esperance Development Commission. Available in Shire offices, Post Offices and at prominent locations around towns.
<b>Reply-paid Questionnaire</b>	See Appendix B (Communication Material). Distributed to all Post Offices Boxes in Ravensthorpe, Hopetoun, Munglinup and Jerdacuttup. Also available at all Shires and key distribution points through Hopetoun, Ravensthorpe and Esperance, and at community forums.
<b>Poster displays</b>	See Appendix B (Communication Material). Displayed in prominent locations around Esperance, Ravensthorpe, Hopetoun, Munglinup and Jerdacuttup.
<b>Media release &amp; interviews</b>	Interviews with Esperance Express, ABC Goldfield Esperance, ABC Kalgoorlie, ABC South Coast & Great Southern, Community Spirit and Hope FM. Media releases detailed in Appendix C and coverage obtained as a result is detailed in Appendix D.

<b>Advertisements</b>	See Appendix B (Communication Material). Ran in the Esperance Express on 15/06/11, 17/06/11, 13/07/11 & 15/07/11 & in the Community Spirit in June and July. Distributed to memberships of Ravensthorpe Progress Association, Hopetoun Progress Association, Munglinup Community Group, Jerdacuttup Community Association, Ravensthorpe Hopetoun Coordination Group, Ravensthorpe Regional Chamber of Commerce and Goldfields Esperance Development Commission.
<b>Letters</b>	Personal letters sent to all members of the Esperance Port Consultative Committee, Shire of Esperance and to the Member for Eyre and Parliamentary Secretary to the Minister for Regional Development providing information on the project and inviting them to the community forums.
<b>Frequently Asked Questions</b>	Sent to all members of the Esperance Port Consultative Committee and Shire of Esperance providing a list of questions and answers regarding the Project.
<b>Community forums</b>	See Appendix B (Communication Material) for presentation content. Events held on 19/07/11 in Ravensthorpe and Hopetoun and 20/07/11 in Esperance. A total of 159 community members attended with questions and comments taken and responded to appropriately.
<b>Independent report</b>	Independent toxicologist from WA Chem Centre commissioned to produce a report, scheduled to be completed in August 2011. Results of this will be communicated to stakeholders.

### *Stakeholder consultation by method*

	Workshops	Meeting	Presentation	Project Update	Questionnaire	Letters	FAQs	Forums
State Government Ministers		●		●		●		
Government Agencies	●	●		●				
Local Govt&Authorities				●		●	●	●
Local businesses & bus. assns.		●	●	●	●			●
Community groups& NGOs		●	●	●	●			●
Media		●		●				
Local residents			●	●	●			●
Service providers				●				●

### **Stakeholder comments & Phillips River's response**

Stakeholders have been consulted since 2004 and input from this lengthy process has been incorporated into the development of the Project.

Recent consultation with Government Ministers and agencies revealed significant interest around the method of community consultation and potential for community concern regarding the transportation of lead through Esperance Port. Phillips River took all feedback on board and made considerable effort to develop and implement a robust community consultation and engagement program.

Through a process of open and transparent communication, the company has been able to facilitate an understanding of its product and proposal, and the response from key stakeholders within the community has been largely positive.

In fact, throughout the intensive consultation program with Government, community and environmental groups throughout February to July 2011, the overwhelming feedback was that the method Phillips River was proposing for transportation of the lead sulphide product was highly satisfactory. Furthermore, during the three community forums, attended by over 150 community members, not one question or comment was made regarding Phillips River's lead sulphide product or the proposed method of transportation.

A summary of issues raised throughout the consultation, and Phillips River's response are detailed in the table below. The Stakeholder Consultation Register in Appendix A provides a detailed record of consultation undertaken, issues raised and Phillips River's response, and full meeting minutes are available upon request.

Issue	Description and Phillips River's Response
Community concern surrounding transport of lead sulphide through Esperance	The lead sulphide that will be mined at the Project is a very different product to the lead carbonate which was shipped through Esperance in the past. Unlike lead carbonate, lead sulphide has very low solubility, with low bioavailability which makes it inherently safe in comparison and a very common bulk export product worldwide. Additionally, lead sulphide will make up a relatively minor percentage of the concentrate exported. Even so, all concentrates will be double-bagged and containerised on site prior to being transported by road to the Esperance Port for shipping. Notably, these precautions are beyond current world's best practice for this type of material.
Timing and strategy for community consultation	Phillips River has undertaken a coordinated stakeholder engagement programme since 2004, and in preparation for the environmental impact assessment process the company engaged public relations consultancy Purple Communications in early 2011. Since then, a robust stakeholder engagement strategy has been implemented with all key stakeholder groups within the community and local, State and Federal Government consulted. The strategy has been designed to ensure input and feedback from government and early and transparent engagement with the community.
Perception of lead in Esperance community	Newsletters, media coverage and personal briefings were used to educate stakeholders about the difference between the lead sulphide contained within Phillips River's product, and the lead carbonate previously shipped through Esperance. In addition, a toxicologist was engaged through the WA Chemistry Centre to examine the Phillips River product and provide independent advice on the risks associated with lead sulphide..
State Government notice for 'no lead carbonate' through Esperance Port	This notice does not apply to the Phillips River product. Lead sulphide is very different and far safer than the lead carbonate shipped through Esperance in the past. It is virtually insoluble, has low bioavailability and is safely exported from numerous ports across Australia and the world. Product containing lead sulphide is

Issue	Description and Phillips River's Response
	typically bulk loaded, however Phillips River will double-bag and containerise all concentrates on site prior to transport. This is current world's best practice and above and beyond regulatory requirements for this type of material.
Public health & safety	Maintaining the highest health and safety measures within the company's operations and in the community is essential. Internally, Phillips River will be ensuring strict health and safety guidelines are adhered to at all times, maintained to ensure the safety and wellbeing of employees and contractors. Health and safety training and ongoing monitoring will be integral to the culture of safety at the Project. As well as being central to the welfare of our employees, health and safety processes are also essential to protect the communities in which Phillips River operates. Baseline dust and soil sampling will be undertaken along the transport route, and dust monitoring and soil sampling will be carried out throughout the life of the project. This, along with the significant management measures implemented in the transport method, will ensure that public health and safety is not impacted negatively by Phillips River's operations.
Production of lead ingots	Phillips River has reviewed the option of producing lead ingots to further allay community concern, but for the amount of bulk concentrate that will be produced, it will be uneconomical..
Source of power	Phillips River will use diesel generators for the six to eight megawatts of power required, eliminating the need to draw power from the grid. It is possible that the Project will be the first wind powered mine in the world, thereby avoiding burning three million litres of diesel each year. Phillips River is currently seeking funding for this initiative.
Independent toxicologist analysis of product	Toxicologist Dr Michael North, Senior Chemist and Research Officer at the WA Chem Centre has been engaged to provide independent expert analysis and advice. .
Haul road from Trilogy to Kundip	The Shire of Ravensthorpe has committed to allow Phillips River to build a haul road between Trilogy and Kundip, along the reserve of the existing Hopetoun – Ravensthorpe Road.
Impact of water usage, groundwater seepage and flow-offs	The Project will use water taken from the site, mostly by dewatering of the mine operation. This is quite saline, low quality ground water and will remain on site. There will be no flow of water from Phillips River's site. The floor of the Trilogy WSF will be compacted to achieve an average permeability of $10^{-9} \text{ms}^{-1}$ utilising in situ clay. Bores will be established surrounding the WSF to monitor seepage.
Economic viability of the project	Given the impact of the closure of the Ravensthorpe nickel mine in 2009 on the region, there was some concern regarding the economic viability of the Project. The economic modelling in the Definitive Feasibility Study (DFS) has been based both on spot prices and long-term forecast from Macquarie and Bloomberg. The feedback from potential financiers having reviewed the project financials is encouraging.
Community benefits and employment opportunities	The Project will provide significant benefits to the community, including the creation of jobs and business opportunities. The Project will have a construction workforce of 80 and a permanent workforce of 80 at the Trilogy site. This will increase to 170 as Kundip comes on line. For a relatively small company, Phillips River already has a strong track record of supporting local communities and has established an ongoing community investment fund of \$30,000 a year.
Draw on local workforce placing pressure on other businesses	Phillips River will work hard to strike the right balance between sourcing locally and avoiding placing undue pressure on the resources of local communities. While we intend on continuing our policy to employ local residents and businesses, we understand other businesses in the region also need to retain a stable and skilled workforce. We will therefore be looking to use a combination of local residential, new residential, and fly in-fly out workers.
Increased traffic & wear on roads	The entire route has been classified for road-train use, and can easily withstand the usage proposed by Phillips River. The Project does not generate large tonnages of concentrates to be shipped and a very significant portion of revenue comes from the production of gold bar which is unlikely to be an export product.



Issue	Description and Phillips River's Response
Noise, light & dust impact on surrounding farms	<p>The size of the blasts will be confined to specification defined within the mine regs. Noise will be monitored to ensure compliance with the Environmental Protection (Noise) Regulations 1997. Phillips River continues to engage with local farm holders.</p> <p>Light will be managed on site in accordance with acceptable standards and will include: directing light sources at targeted work areas, preferably in a downwards direction; adopt a low vertical aiming angle of the light; locate lighting as close as possible to the target area of illumination; conduct regular maintenance to maintain optimum performance; and conduct workforce awareness training to reduce light emission.</p>
Impact on railway/heritage walk	<p>The Kundip-Trilogy haul road will not intersect the Railway Heritage Walk. The only place it will be intersected is on the existing main access road. The railway heritage walk will be fenced along the length that runs parallel with the edge of the Kundip mining lease.</p>
Impact on Carnaby's Cockatoos	<p>The extensive flora and fauna surveys conducted at Kundip indicate that the vegetation communities present do not support the nesting of Carnaby's Cockatoos. The potential wind farm is located a significant distance from Phillips River ensuring there is no risk to juvenile cockatoos. Phillips River has sent all fauna and flora reports to Birds Australia and committed to maintaining a 'sighting' register to allow them to better understand the species in the area. Birds Australia confirmed they were satisfied with the measures that had been taken to date to ensure the management of Carnabys Cockatoos.</p>
Establishment of 'trigger levels' & public dust monitoring	<p>Members of local Esperance community groups LEAF (Local Environmental Action Forum) &amp; LED (Locals for Economic Development) requested Phillips River established 'trigger levels' to set a limit on the amount of acceptable dust, and ensure the company stops transportation activities if these limits are reached. There was also a request to make the results of dust monitoring available to the public. The company is currently exploring this possibility and will provide feedback to these groups.</p>
Offsets/conservation land	<p>An offset package for the Project will be determined throughout the assessment process in consultation with the DEC and local communities. Parts of the offset package approved for the previous proposal have already been implemented, including contribution of funds towards fox baiting and targeted and regional vegetation and flora surveys, and contribution of seeds to the Millennium Seed Bank.</p>
Impact on malleefowl	<p>In consultation with the Malleefowl Preservation Group (MPG) Phillips River has committed to surveying the proposed clearing areas using the "human chain technique" prior to any clearing at Kundip. Should any active mounds be found, the eggs will be relocated and incubated in consultation with the MPG and DEC.</p>
Dieback and weed management	<p>Surveys have been undertaken at Kundip to map the distribution of weeds within the Project area. Eradication of a number of species has occurred and ongoing management of other exotics in accordance with the Weed Management Plan will continue. Phillips River will continue to liaise with the DEC and South Coast Natural Resource Management personnel regarding management of weeds within the Project area.</p> <p>Two dieback surveys have been undertaken at Kundip. A number of areas within the Kundip project area cannot be classified as dieback free due to the absence of recognised indicator species. No known areas of dieback have been recorded from within the Project area. Phillips River have a Dieback Management Plan. A wash down facility will be constructed as a key component of the Project to prevent the introduction or spread of weeds/dieback within the Project area.</p>

## Ongoing Consultation

In addition to the consultation detailed in this report, stakeholders will have the opportunity to formally comment on the Project when the proposal is referred to the EPA for assessment, as part of the public comment period. Phillips River will advertise this process to stakeholders and will continue to inform stakeholders through the remainder of the environmental assessment/approval process and also post-approval as the Project progresses.

Phillips River is committed to engaging with stakeholders through each phase of the Project to identify, monitor and manage any identified issues and relevant impacts. Meetings and Project briefings with Government departments, environmental groups and local stakeholders are planned to be held on a regular basis.

Communication mechanisms such as media releases, community forums, and letterbox drops have been successful to date and will continue throughout the planning, construction and commissioning phases of the Project. The Phillips River Project newsletter will continue to feature updates on progress with regard to planning and approvals, and the Phillips River website will feature documents and content to inform the community of Project-related activities. Other proposed consultation activities include:

- De-brief / evaluation process post-referral to assess success of consultation and plan future consultation strategy
- Collation and response to community questionnaire
- Establishment of a community reference group (potentially in cooperation with neighbouring operator First Quantum and Galaxy)
- Maintenance of Stakeholder Consultation/Issues Register
- Website upgrade with regular updates
- Site visits and open days/information forums
- Advertise environmental reports and make them publicly available

## Appendix A: Stakeholder Consultation Log

Stakeholder	Consultation	Detail	Outcome
<b>STATE GOVERNMENT MINISTERS</b>			
<b>Premier; Minister for State Development Hon Colin Barnett MLA</b>	Project update: 3/06/11	Sent email providing brief updates and requesting a meeting.	Followed up with phone calls, however no response received.
	Informal conv.: 20/06/11	Briefed the Premier on project and community consultation with particular focus on lead shipment through Esperance.	The Premier responded that the management approach to lead shipment was robust, and that Esperance seemed to be the logical port.
	Project update: 7/07/11	Sent project update (vol 2 of newsletter) and Esperance Express media of the day advising of community forum dates.	
<b>Deputy Premier; Minister for Health; Tourism Hon Dr Kim Hames MLA</b>	Project update: 3/06/11	Sent project update (vol 1 of newsletter) and recent media and request for a meeting.	Minister Hames advised that he is unable to be involved due to conflict of interest.
	Project update: 7/07/11	Sent project update (vol 2 of newsletter) and Esperance Express media of the day advising of community forum dates.	
<b>Minister for Environment; Water Hon Bill Marmion MLA</b>	Project update: 29/03/11	Sent email providing brief updates and requesting a meeting.	No response
	Project update: 14/04/11	Sent email providing brief updates and requesting a meeting.	No response
	Project update: 3/06/11	Sent email providing brief updates and requesting a meeting.	Meeting referred to COS and Policy Advisor
	Meeting: 24/06/11	Meeting with Policy advisor for Industry Regulation and Waste, Josh Harris. Went through standard briefing pack with emphasis on environmental issues.	The Ministers office noted potential for community concern regarding lead management but responded that the approach Tectonic is taking is robust.
	Project update: 7/07/11	Sent project update (vol 2 of newsletter) and Esperance Express media advising of community forum dates	
	Meeting request: 7/07/11	Sent email of introduction to new COS Colin Edwardes requesting a meeting. Email included Newsletter vol2 and Esperance Express media.	

<b>Minister for Mines Hon Norman Moore MLC</b>	Meeting: 29/03/11	General company presentation to Minister Moore. Specific and lengthy conversation around the shipment of lead sulphide through Esperance, and how the DMP and Ministry can support Tectonic's efforts.	Agreed to keep Minister Moore informed. Subsequently invited to meet with the Ministers Chief of Staff to discuss Tectonic and mining in Kazakhstan (in Jason Stirbinskis' capacity as Honorary Consul).
	Project update: 3/06/11	Sent email providing brief updates and requesting a meeting.	Meeting declined by Bob Stephens on behalf of Minister Moore.
	Phone conv.: 16/06/11	Spoke at length with Principal Policy Advisor Bob Stevens about the difficulties securing meetings with Ministers Buswell and Marmion.	Mr Stevens agreed to contact his counterparts to encourage a meeting.
	Project update: 7/07/11	Sent project update (vol 2 of newsletter) and Esperance Express media of the day advising of community forum dates.	
	Informal conv.: 7/07/11	Lengthy conversation focussed on the political aspects of shipping lead through Esperance.	The Minister took an action to discuss with his fellow ministers.
<b>Minister for Energy; Training and Workforce Development; Indigenous Affairs Hon Peter Collier MLC</b>	Meeting: 13/04/11	Provided an overview of the Philips River Project with particular focus on community and the possible wind power solution. Also discussed the possibility of grant support for the wind solution.	Agreed to keep the Minister informed in relation to the wind solution.
	Project update: 7/07/11	Sent project update (vol 2 of newsletter) and Esperance Express media of the day advising of community forum dates	
<b>Minister for Transport; Housing Hon Troy Buswell MLA</b>	Project update: 3/06/11	Sent email providing brief updates and requesting a meeting. Meeting referred to COS.	
	Meeting: 17/06/11	Meeting with Chief of Staff Rachel Turnseck. Ms Turnseck advised it was the Ministers view that the material should go through Fremantle. Tectonic provided a detailed briefing on the Project and product.	Upon receiving all the facts, Ms Turnseck committed to briefing the Minister to allow a better informed position to be established.
	Project update: 7/07/11	Sent project update (vol 2 of newsletter) and Esperance Express media advising of community forum.	
<b>Minister for Regional Development Hon Brendon Grylls MLA</b>	Project update: 25/02/11	Sent an introductory email covering the project and requesting a meeting.	Further to this email we met with Wendy Duncan who committed to brief Grylls.
	Project update: 7/07/11	Sent project update (vol 2 of newsletter) and Esperance Express media advising of community forum.	

<b>Parliamentary Secretary to the Minister for Regional Development Hon Wendy Duncan MLC</b>	Meeting: 6/05/11	Meeting with the Minister and Principal Policy Officer, Steve Imms. Provided an overview of the Philips River Project with particular focus on community and the possible wind power solution. Also discussed the possibility of grant support for the wind solution.	Agreed to keep Minister Duncan informed of progress. Minister Duncan agreed to brief Minister Grylls.
	Project update: 3/06/11	Sent email providing brief update and requesting a meeting.	
	Meeting: 27/06/11	Meeting to discuss specifics of Tectonic proposal and community consultation.	The Minister noted potential for community concern regarding lead management and concluded that Tectonic's approach to lead management is robust. . Committed to keep the Minister updated.
	Project update: 7/07/11	Sent project update (vol 2 of newsletter) and Esperance Express media advising of community forum dates.	
	Letter: 11/07/11	Send personal invitation to Esperance community forum.	
<b>Member for Eyre Dr Graham Gibson Jacobs MLA</b>	Meeting: 26/05/11	Worked through standard presentation and then spoke at length about shipment through POE.	The Minister advised that the community was sensitive about lead shipment but noted that Tectonic's approach to lead management is robust. .
	Project update: 7/07/11	Sent project update (vol 2 of newsletter) and Esperance Express media advising of community forum dates	
	Letter: 12/07/11	Sent invitation to community forums	

GOVERNMENT DEPTS/AGENCIES			
Inter-Agency Group:	Workshop: 29/06/11	<p>Attendees included:</p> <ul style="list-style-type: none"> <li>• <b>Department of Transport:</b> Coordinator, Policy, Planning and Investment Division Michael Jackson; Regional Manager Garry Wilson; Mike Williams; Drew Gaynor</li> <li>• <b>Environmental Protection Authority:</b> Director Assessment and Compliance Services Anthony Sutton</li> <li>• <b>Department of Health:</b> Principal Toxicologist, Environmental Health Directorate Martin Matisons</li> <li>• <b>Department of Mines and Petroleum:</b> Chief Dangerous Good Advisor, Resources Safety Division Dr Peter Drygala</li> <li>• <b>Department of State Development:</b> Project Manager, Investment Facilitation Richard Riordan</li> <li>• <b>Department of Environment &amp; Conservation:</b> Manager, Licensing &amp; Permitting Branch Peter Skitmore ; Director Environmental Regulations Alan Sands</li> <li>• <b>Fremantle Port Authority:</b> GM Port Operations / Harbourmaster Allan Gray; Manager, Planning &amp; Environment Lyle Banks</li> <li>• <b>Esperance Port Sea and Land:</b> Director Stefan Frodsham</li> </ul> <p>Detailed project presentation provided and lengthy discussion around project specifics. Feedback included:</p> <ol style="list-style-type: none"> <li>1. Discussion around timing and sequencing for consultation, specifically in regards to community consultation given the sensitivities around lead.</li> <li>2. Community presentation should include diagrams to illustrate process more clearly</li> <li>3. Suggestion to commission independent toxicology report</li> </ol>	<p>Feedback received confirmed Tectonic plans for export was best-practice and no further measures could be taken to ensure public health.</p> <ol style="list-style-type: none"> <li>1. After much discussion, it was agreed that Tectonic's approach to stakeholder engagement is appropriate. Confirmed that community consultation was part of the prescribed process and that all Ministers (or their representatives) had been briefed already, or would be briefed prior to the community forums.</li> <li>2. Community presentation strengthened to include more imagery</li> <li>3. WA Chem Centre commissioned to conduct analysis of Tectonic's product.</li> </ol>
	Project update: 6/07/11	Sent project update (vol 2 of newsletter) and Esperance Express media of the day advising of community forum dates.	

<p><b>Environmental Protection Authority</b></p>	<p>Workshop: 5/04/11</p>	<p>Meeting with Chairman Dr Paul Vogel. He emphasised the importance of ensuring the community is well informed of the project before referring it to the EPA. He advised there has been a notice put on the port for ‘no lead carbonate’, which therefore does not apply to the Trilogy product. Specific queries and feedback included:</p> <ol style="list-style-type: none"> <li>1. Community consultation and communication strategy?</li> <li>2. Consider production of lead ingots?</li> <li>3. Peer reviewed risk assessment will be critical.</li> <li>4. Recommended employing a toxicologist to illustrate the differentiation of the product from Lead Carbonate, and then enabling the community the capacity to undertake an independent analysis</li> <li>5. Keep the DEC and the Premier informed.</li> <li>6. The increase in truck movements will be considered to be a risk from the community perspective and will require assessment</li> <li>7. Provide an alternative option for export in environmental review documentation (need to assess the capacity of the Port to receive the product).</li> <li>8. Check the nature of the product and its rating with Main Roads</li> <li>9. Preference to assess the mine and transport components together to ensure transparency.</li> </ol>	<ol style="list-style-type: none"> <li>1. A robust stakeholder engagement strategy was developed in consultation with an experienced consultancy.</li> <li>2. Ingots have been considered but for the amount of bulk concentrate that will be produced, it will be uneconomical, notably for the copper concentrate.</li> <li>3. Noted – a risk assessment specific to the transport and export of the product will be undertaken and peer reviewed.</li> <li>4. An independent toxicologist has been engaged through the WA Chem Centre and their report is expected in late August.</li> <li>5. Tectonic has met with the DEC DG and a meeting request has been with the Premier’s office for some time. The Premier has been informally briefed and both offices have received regular project updates via email.</li> <li>6. This will be incorporated in risk assessment within PER.</li> <li>7. Noted, will be done as part of risk assessment of transport route</li> <li>8. Confirmed Class 9</li> <li>9. The referral to the EPA will be made on both the project and transport, and community consultation has encompassed both components to ensure transparency.</li> </ol>
--	------------------------------	--	---

	Workshop: 7/12/10	<p>Meeting with Mark Jefferies and Anthony Sheehan to discuss EPA approval requirements. Feedback included:</p> <ol style="list-style-type: none"> <li>1. Did vegetation and flora surveys reveal any new information? Are there any remaining gaps?</li> <li>2. Concerned with noise pollution from wind farms</li> <li>3. The DSEWPC is concerned with impacts to bats from wind farms</li> <li>4. Changes to the project are too extensive for approval under the S45C process. Tectonic should re-issue the PER as a 'pared back' document. Advised that the OEPA would likely give agencies 4 weeks to comment on the ERD provided Tectonic consulted with these agencies prior to submission</li> <li>5. Closure Plan will be required for the mining proposal</li> </ol>	<ol style="list-style-type: none"> <li>1. Surveys undertaken within and surrounding the site since the last assessment have determined greater numbers of flora species, such that the priority status of many species has been downgraded, or they have been removed from the list. The revised proposal therefore impacts less conservation significant species. All required vegetation and flora surveys have been completed.</li> <li>2. The nearest noise receptor is 6-8km away</li> <li>3. The revised proposal will be referred to the DSEWPC</li> <li>4. Tectonic has conducted extensive consultation with relevant agencies and resubmitted ERD for approval</li> <li>5. Closure plan will be provided as part of the ERD.</li> </ol>
<b>Department of Environment (formerly CALM)</b>	Site visit: 16/11/04	Site visit with Sarah Bennett, Sarah Comer, Ann Cochran & Norm Caporn(CALM)	
	Meeting: 19/01/05	Presentation to Sharon Stratico & Melanie Price	
	Meeting: 21/01/05	Site visit with Sarah Bennett, Sarah Comer, Ann Cochran & Norm Caporn(CALM)	
	Site visit: 7/09/05	Site visit of Project area	
	Workshop: 21/01/05	<p>Presentation of project to Norm Caporn, Daniel Coffey and Malcolm Grant. Issues raised included:</p> <ol style="list-style-type: none"> <li>1. Exploration tracks</li> <li>2. Track rationalisation around site</li> <li>3. Include all records of malleefowl mounds</li> <li>4. Part V DoE process should capture all detail including all exploration in future years</li> <li>5. Gravel pits should also be included in disturbance footprint</li> <li>6. Piers Goodman, Portman Iron Ore is doing self-contained drainage along the road</li> <li>7. Offsets need to be negotiated (consider EPA guidance)</li> <li>8. Will need a priority and DRF table showing all known locations, populations at Kundip and overall impact</li> </ol>	<ol style="list-style-type: none"> <li>1. No intent to rehabilitate or revegetate immediately as they will be used for seed picking access – they are a component of the long term conceptual planning</li> <li>2. This has been done – planning is underway</li> <li>3. Is a commitment within the EPS</li> <li>4. All future clearing will be included with works approval application</li> <li>5. Will include within disturbance</li> <li>6. Piers was contacted and some information was sent to TTR for consideration</li> <li>7. Offsets presented in EPS</li> <li>8. Tables included within EPS</li> </ol>
	Meeting:	Meeting with Daniel Coffey and Grant Lamb to discuss Trilogy	



	22/06/05	NOI	
	Workshop: 22/07/05	<p>Meeting with Ann Stubbs, John Dell, Bec Ryan and Tim Gentle at DoE Perth Offices to discuss Trilogy NOI and incoming Kundip NOI. Feedback included:</p> <ol style="list-style-type: none"> <li>Needs an analysis of alternative Haul roads and a justification for selection</li> <li>Consider Ecological Linkages, Mine Closure Planning, Acid Mine Drainage and Offsets as Factors within EPS document</li> <li>Pines are now no longer recommended for use as habitat for Carnaby's Cockatoos</li> <li>A Rehabilitation strategy and closure strategy will be required for Trilogy and Kundip respectively.</li> </ol>	<ol style="list-style-type: none"> <li>To be include within EPS document</li> <li>Will be included within EPS document</li> <li>Pines will be removed from the list of species proposed for rehabilitation</li> <li>A Trilogy rehabilitation strategy and Kundip closure strategy will be developed for inclusion within the EPS document.</li> </ol>
	Workshop: 01/08/05	<p>Comments provided on the Trilogy NOI. Issues raised included:</p> <ol style="list-style-type: none"> <li>Provide sufficient details on the construction standards of the WSF to indicate its capacity of withstanding an earthquake</li> <li>Submit a detailed decommissioning plan for the Trilogy site prior to approval</li> <li>Do not recommend the planting of <i>Pinus</i> species as a foraging offset for Carnaby's Black Cockatoos</li> <li>Clarify that 1.45ha of vegetation impacted by haul road with M74/51 is existing road infrastructure</li> <li>Provide information on alternative routes that have been assessed and explanations why these were not considered viable</li> <li>Address operational and management procedures for sumps and drainage etc within EMP</li> <li>Greater detail needs to be supplied to determine the actual clearing required</li> <li>Prepare a comprehensive dieback management plan</li> <li>Make reference to potential impacts from fox predation</li> <li>Negotiate offsets</li> </ol>	<ol style="list-style-type: none"> <li>TWSF assigned a hazard rating of Low Category 3, based on DOIR classification criteria and will be constructed in line with these DOIR classifications</li> <li>Decommissioning plan included within the EPS</li> <li>Removed <i>Pinus</i> species from the revegetation programme</li> <li>The road alignment for construction will overlap existing roads/tracks wherever possible.</li> <li>Included within EPS</li> <li>Will be addressed within EMP</li> <li>Included within EPS</li> <li>Included within EPS</li> <li>Included within EPS</li> <li>Included within EPS</li> </ol>

	<p>Site Visit: 7/09/05</p>	<p>Site Visit of Project area with DoE Albany – Catherine MacCallum; CALM – Mal Grant, Grant Lamb and Nisha Powell; DOIR – Danielle Risbey; EPASU – Ann Stubbs.</p> <ol style="list-style-type: none"> <li>1. CALM would prefer that the haul road be removed post-mining and the fire management track re-instated</li> <li>2. Consider new light shrouds, nominated for a golden gecko award</li> <li>3. Establish 10x10m vegetation quadrats for rehab purposes</li> <li>4. Undertake a spring survey within the footprint of the proposed waste dumps</li> <li>5. Forward baseline groundwater monitoring data to DoE and consultatively set acceptable Cu limits</li> <li>6. Investigate feasibility of reducing haul road width in portions</li> <li>7. Investigate offsets</li> </ol>	<ol style="list-style-type: none"> <li>1. Will be discussed with the Shire of Ravensthorpe</li> <li>2. Will be investigated</li> <li>3. Is a commitment within EPS</li> <li>4. Will be included as an addendum to the EPS</li> <li>5. To be done for Part V Works Approval</li> <li>6. Within EPS</li> <li>7. Addressed within EPS</li> </ol>
	<p>Workshop: 25/11/10</p>	<p>Present to DEC representatives on revised project; subterranean fauna desktop assessment and wind turbine bird/bat strike assessment. It was noted that a comprehensive investigation has been undertaken to date. Feedback included:</p> <ol style="list-style-type: none"> <li>1. The methodology used for the Kundip vegetation unit mapping needs to be compared to the Ravensthorpe Range mapping to determine if the data can be accurately compared.</li> <li>2. In relation to exploration in conservation reserves and proposed conservation reserves, new guidelines have been developed for the preparation of a conservation management plan. The Tectonic Exploration Management Plan most likely addresses all of the requirements but will need to be updated to reflect the new guidelines and changes to project</li> <li>3. Not completely satisfied that potential impacts to troglofauna at Kundip are unlikely, and would like this section of the report to be reviewed by our experts.</li> </ol>	<ol style="list-style-type: none"> <li>1. Methodologies have been compared and Kundip vegetation mapping can be accurately compared to Ravensthorpe Range mapping</li> <li>2. Exploration management plan updated.</li> <li>3. A pilot survey for subterranean fauna at Kundip is being undertaken.</li> </ol>

<p>Project update: 3/06/11</p>	<p>Sent meeting request to Director General Keiran McNamara and project update</p>	
<p>Meeting: 1/07/11</p>	<p>Full presentation of project to Director General Kieran McNamara &amp; Peter Skitmore Manager, Licensing &amp; Permitting Branch. Focus of conversation was on process to date and going forward as related to DEC remit.</p>	<p>Tectonic to continue discussions with the DEC Environmental Management Branch (EMB) with respect to End land Use, Closure Objectives and Criteria.</p>
<p>Workshop: 5/07/11</p>	<p>Meeting with Environmental Management Branch: Chris Bishop; Daniel Coffey and Albany office(via videolink): Deon Utber; Sarah Comer. Discussed requirements for further SRE survey and other biodiversity impacts. Provided an update on the amendments to the proposal originally assessed in 2006. Discussed biodiversity impacts of revised proposal and the proposed EPA process timeline. Detailed completed and proposed flora/fauna studies done since 2005.</p> <ol style="list-style-type: none"> <li>1. Requested a copy of the haul road veg and flora report</li> <li>2. DEC would like to review the veg and flora report before commenting on whether fauna survey data from Kundip can be extrapolated</li> <li>3. A discussion was had with Andy Czerw a while ago regarding a sighting of a Western Bristlebird near Kundip - this should be included in report and DEC notified of exact location.</li> <li>4. A fairly extensive search was undertaken for chuditch in the Ravensthorpe Range. This data should be captured on the database search, but should be checked to make sure it is there. If not then contact Albany office for data.</li> <li>5. Presented the findings of the SRE desktop survey and recommendations for further survey. DEC agreed that further survey would be required, and advised to contact Mark Harvey at WAM to determine appropriate level of survey.</li> <li>6. Advised to contact OEPA to determine their viewpoint on whether further survey is required, and if so, timing related to the EPA assessment process</li> </ol>	<ol style="list-style-type: none"> <li>1. Outback Ecology forwarded through veg and flora report (7/7/11)</li> <li>2. DEC currently reviewing report</li> <li>3. Tectonic determining where Western Bristlebird was sighted</li> <li>4. Outback Ecology checking that Ravensthorpe Range chuditch searches have been captured on the database search</li> <li>5. Outback Ecology to contact Mark Harvey regarding appropriate level of survey</li> <li>6. Outback Ecology to discuss requirements for further survey with OEPA, and how they will fit into the EPA assessment process</li> <li>7. Outback Ecology to confirm occurrence of pseudoscorpion in the area with Mark Harvey</li> <li>8. Tectonic indicated that this should be possible</li> </ol>

		<ol style="list-style-type: none"> <li>7. Advised that a SRE pseudoscorpion may also occur in the desktop search area and PB to confirm the occurrence with Mark Harvey</li> <li>8. Queried whether the Kundip Trilogy haul road can be moved from native vegetation to the paddock where possible</li> </ol>	
	Project update: 6/07/11	Sent Director General Kieran McNamara project update (vol 2 of newsletter) and Esperance Express media of the day advising of community forum dates	
	Meeting: 14/07/11	<p>Meeting with Environmental Management Branch: Chris Bishop and Daniel Coffey to discuss end land use, closure objectives and closure criteria.</p> <ol style="list-style-type: none"> <li>1. Queried if a visual amenity exercise had been undertaken, or if consideration had been given to how the final landforms may appear from the road.</li> <li>2. Queried how fire would be managed within the Kundip Project area. Advised of the potential to work with First Quantum Mineral to develop seed growing trials.</li> <li>3. Discussed the location of the 60 ha of land currently set aside as a conservation offset</li> <li>4. Queried the potential impacts from the underground ventilation fans on the vegetation at Kundip, and the potential for slumping resulting in altered surface water hydrology. Advised that the DEC policy is not to manage contaminated sites and/or open pit lakes.</li> </ol>	<ol style="list-style-type: none"> <li>1. Tectonic to separately stockpile topsoil at Kundip sourced from dieback 'free' areas and areas identified as 'uninterpretable', further separation is requiring according to the position within the landscape (upper slopes and crests; mid slopes and lower slopes).</li> <li>2. Tectonic to incorporate into the Kundip seed mix, provenance species that are emergent after a fire or disturbance</li> <li>3. Tectonic to supply a plan depicting the location of the land currently set aside as conservation offset to the EMB for their review.</li> <li>4. The potential impacts from the underground operations on the vegetation and surface hydrology at Kundip will be discussed within the PER</li> </ol>

<b>Department of Transport</b>	Informal discussion: 24/05/11	Introduced project informally to A/Deputy Director General - Policy Planning and Investment Sue McCarrey at Dept of Transport strategy session in Esperance	
	Project update: 3/06/11	Sent meeting request and project update to Deputy Director General - Policy Planning and Investment Sue McCarrey	
	Meeting: 8/06/11	Meeting with Coordinator, Policy, Planning and Investment Division Michael Jackson regarding briefing Minister Buswell and discussed proposed inter-agency meeting	
	Meeting: 26/06/11	Met with Deputy Director General - Policy Planning and Investment Sue McCarrey and Coordinator, Policy, Planning and Investment Division Michael Jackson. Presented standard community pack and discussed at length - haul road and the perceived issue of lead through Esperance.	McCarrey took an action to brief Minister Buswell
	Project update: 6/07/11	Sent project update (vol 2 of newsletter) and Esperance Express media of the day advising of community forum dates	
<b>Main Roads WA</b>	Project update: 3/06/11	Sent meeting request and project update	
	Meeting: 23/06/11	Met with Managing Director Menno Henneveld & Director, Strategic Relationships Rob Giles. Presented standard community pack and discussed at length - haul road and the perceived issue of lead through Esperance. Menno wanted to explore the argument for not using the public road and actions were agreed: 1. Tectonic to provide haul tonnages for Kundip and Trilogy 2. Rob Giles to provide approximate costings for using the public road	1. Tectonic provided haul tonnages on 24/06/11
	Project update: 6/07/11	Sent project update (vol 2 of newsletter) and Esperance Express media of the day advising of community forum dates. Also prompted for costings as per action from previous meeting.	
	Meeting: 22/07/11	Meeting with Director, Strategic Relationships Rob Giles to discuss options for the haul road between Trilogy & Kundip	

<b>Department of State Development</b>	Email: 11/07/11	Sent meeting request Director General Steven Wood	
	Workshop: 0908/11	Workshop confirmed with: Ivor Roberts; Giles Nunis; Milka Klobucar; Bill Preston; Richard Riordan; David McCulloch; Graham Cobby; Roger Dean	
<b>Department of Mines and Petroleum</b>	Meeting: 21/12/04	Briefing with Bill Biggs Ian Misich, Rob Sherwood and Danielle Risbey	
	Site visit: 7/09/05	Site visit of project area with Bill Biggs, Ian Misich, Rob Sherwood and Danielle Risbey	
	Workshop: 13/12/10	Meeting with Eugene Bouwhuis, Adam Ashby and Tyler Sudjovic to present revised project. Feedback included: <ol style="list-style-type: none"> <li>1. The IWL TSF is close to the west boundary of the Trilogy site, need to ensure that there is enough room between landform and fence</li> <li>2. What is happening with Bruce McCall's tenement?</li> <li>3. Make sure you include a breakdown per tenement for clearing</li> <li>4. We have a concern about impacts of seepage from the evap dam, can you consider lining of the dam</li> <li>5. Are there any turkey's nest structures and can you consider lining of them?</li> <li>6. It is vital to ensure that there is no ponding against landforms and that they are safe stable and non-eroding</li> </ol>	<ol style="list-style-type: none"> <li>1. The design has been modified to ensure that there that the edge is at least 50m away from the western Trilogy boundary</li> <li>2. Tectonic are looking to acquire the tenement, and the facility will be decommissioned and incorporated into Phillips River</li> <li>3. Will include in mining proposal</li> <li>4. The evap dam will be lined with 10-9 clay layer, and any seepage will report directly to the pit. Bores will be established surrounding the evap dam to monitor seepage</li> <li>5. Yes they will be required for clearing out the water and they will be clay-lined</li> <li>6. Design of landforms will be addressed in both the Mining Proposal and associated closure plan</li> </ol>
	Site visit: 2/03/11	Escorted Director General Richard Sellers around Trilogy and Kundip sites discussing the specifics of mining and environmental considerations.	Agreed to keep Mr Sellers informed of progress
	Meeting: 26/05/11	Meeting with Graham Cobby (head of approvals division). Provided a briefing on the Project.	Graham suggested this could almost be classified a Category 2 project, but not quite.
	Project update: 6/07/11	Sent project update (vol 2 of newsletter) and Esperance Express media of the day advising of community forum dates	
	<b>Centre for Renewable Energy</b>  <b>Department of Resources and Energy</b>	Meeting: 5/05/11	Meeting with Centre for Renewable Energy Assistant Manager Clean Energy Graeme Wolfe & Adrian Rule; Department of Resources and Energy Advisor Lisa Gooding; and Department of Climate Change and Energy Efficiency Senior Advisor Peter Nicholas. Provided an overview of the Project with particular

<b>Department of Climate Change and Energy Efficiency</b>		focus on community and the possible wind power solution. Also discussed the possibility of grant support for the wind solution.	
---	--	---	--

<b>LOCAL GOVERNMENT&amp; AUTHORITIES</b>			
<b>Shire of Ravensthorpe</b>	10/11/04	Company presentation	
	16/12/04	Company presentation	
	Meeting: 1/10/10	Presentation to discuss Kundip-Trilogy haul road alignment; Positive feedback – no issues raised	
	Meeting: 1/02/11	Introduced Jason as new MD of Tectonic discussed general progress and plans for community consultation	
	Meeting: 16/05/11	Briefing with the Shire.	The Shire expressed a desire to be kept informed. Offered their support where necessary to assist in the process of approvals and development.
	Meeting: 17/05/11	Spoke at length with Chief Executive Officer Pascoe Durtanovich about transfer of Rav/Hop highway to main roads and the impact on haul road.	Pascoe is eager not to disrupt plans for the Project.
	Project update: 7/07/11	Sent project update (vol 2 of newsletter) and Esperance Express media of the day advising of community forum dates	
	Meeting: 19/07/11	Spoke with Chief Executive Officer Pascoe Durtanovich and Shire President Ian Goldfinch regarding the potential to utilise the Ravensthorpe/Hopetoun Highway instead of the proposed Haul Road	A meeting is to be established between Main Roads, the Shire of Ravensthorpe and Tectonic.
<b>Shire of Esperance</b>	Meeting: 23/05/11	Conversation with Chief Executive Officer Mal Osborne & Shire President Buck Rodgers about how our project will affect communities. Discussion around lead.	Suggests that because we are proposing double bagged and sealed containers of a far more inert substance being trucked only twice a day, that the Esperance community will be accepting and probably indifferent. They suggested that a presentation to the Esperance Port Consultation Committee and the shire councillors would suffice, but after discussion, it was agreed a public forum would also be useful.
	Meeting: 23/06/11	Presented to Shire Exec team with particular focus on lead through Esperance. General agreement that most of Esperance will understand and accept that the product is being well managed but also agreed that a small subset might become vocal. Scheduled meeting with whole Shire (including Executive and Elected Members) however due to Budget meeting, Elected Members had left early. Feedback from Executive included:	<ol style="list-style-type: none"> <li>1. Definitely a possibility for the wind turbines to be gifted to the Shire. Tectonic more than happy to discuss this option as part of funding opportunities.</li> <li>2. The economic modelling has been based both on spot prices and long-term forecast from Macquarie and Bloomberg. This has been presented to 10 banks for consideration and 7 have come back with the feedback that this is conservative and they are happy.</li> <li>3. Tectonic more than happy to have a second toxicology</li> </ol>



		<ol style="list-style-type: none"> <li>1. Could the proposed wind turbines be gifted to the Shire post-mining?</li> <li>2. Has the project DFS been modelled on current spot prices or projected prices? Concerned that a similar situation that happened with BHPB Nickel project might happen again.</li> <li>3. May be beneficial to allow the community to suggest an independent toxicologist to avoid perception that they are paid by Tectonic.</li> <li>4. Recommended inviting Elected members to community forum given they did not attend the meeting</li> </ol>	<p>report commissioned with a supplier of the community's choice.</p> <p>4. Invitation sent to all members</p>
	Letter: 30/06/11	Sent letter to all Elected Members inviting them to the Community Forums	
	Project update: 6/07/11	Sent project update (vol 2 of newsletter) and Esperance Express media of the day advising of community forum dates	
<b>Goldfields Esperance Development Commission</b>	Conference: 2/03/11	Detailed presentation in Esperance at community conference attended by 200+ people mostly local businesses. Discussed the intention of shipping through Esperance and the likely impact of Tectonic activity on Esp, Rav and Hope	Subsequently interviewed on ABC regional radio a grab of which was repeated hourly on ABC national radio.
	Informal conv.: 24/05/11	Introduced project informally at Dept of Transport strategy session in Esperance	
	Meeting: 7/06/11	Briefing with Secretary Shane Liddelwand Community Relations Manager Richard Grant to run through Community Briefing Pack.	Generally feedback was positive; however there was a recognition that it will be a challenge to address current perceptions of some segments of the community given the previous lead issues.
	Project update: 16/06/11	Sent community forum ad for distribution to members	
	Project update: 4/07/11	Sent community forum reminder ad and project update (newsletter vol 2) for distribution to members	
	Project update: 7/07/11	Sent project update (vol 2 of newsletter) and Esperance Express media of the day advising of community forum dates	

<b>Esperance Port, Land and Sea</b>	Site visit: 12/03/11	Meeting with CEO Michael Frydrych including site tour. Discussed at length the history of the Lead Carbonate and Ni contamination issues including lessons learnt and how Tectonic should approach the community.	Mr Frydrych agreed that Tectonic's product and intended shipping method should not pose an issue from a community or port handling capacity perspective.
	Informal discussion: 24/05/11	Introduced project informally at Dept of Transport strategy session in Esperance	
	Meeting: 7/06/11	Briefed CFO Shayne Flanagan and CEO Michael Frydrych. Lengthy discussion around costings and logistics for container movement. Also discussed our approach to community consultation. They were supportive of our approach and identified the PCC as the primary body to meet with first.	Feedback was positive with confirmation that the Tectonic proposal does not pose an issue for the Port from a capacity or environmental perspective. Discussion around other meetings required, with feedback suggesting it was not necessary to brief the Port Board, and Michal would seek technical feedback from Phil Chalmer who is a director on the Board and a Chemist. Confirmation of a briefing with the Port Consultative Committee on 18 July.
	Meeting request: 8/06/11	Meeting request sent to Chairman of Board Bob McKinnon	Declined and referred to Sue McCarrey, Deputy Director General, Department of Transport.
	Project Update: 7/07/11	Sent project update (vol 2 of newsletter) and Esperance Express media of the day advising of community forum dates	
<b>Fremantle Port</b>	Workshop: 29/06/11	See Inter-Agency Group (Government Depts/Agencies)	
<b>CASA</b>	Correspondence 1/01/11	Email and phone correspondence: Concerned about impacts from wind turbines on landing space, and dust and rock fragments from blasting	Issues currently being addressed
<b>LOCAL BUSINESS &amp; BUSINESS ASSOCIATIONS</b>			
<b>Ravensthorpe Regional Chamber of Commerce</b>	Meeting: 1/10/08	Powerpoint presentation	Positive feedback, no issues raised
	Meeting: 1/07/09	Powerpoint presentation	Positive feedback, no issues raised
	Meeting: 1/10/09	Powerpoint presentation	Positive feedback, no issues raised
	Project Update: 16/06/11	Sent community forum ad for distribution to members	
	Project Update: 4/07/11	Sent community forum reminder ad and project update (newsletter vol 2) for distribution to members	
<b>Esperance Chamber of Commerce</b>	Meeting: 1/02/09	Powerpoint presentation	Positive feedback, no issues raised Another presentation scheduled for 8 June

	Meeting: 8/06/11	Meeting in his capacity as Port CFO	
<b>WA Chamber of Minerals &amp; Energy</b>	Meeting: 14/07/11	Meeting with: Director (Acting CEO), Nicole Roocke, Acting Director; James Edwards, Executive officer Media and Public Relations. Joanne Webber; Executive Officer Membership. Graeme Healey; Executive Officer Land Access. Andrew Winter; Acting Executive Office Environment. Amanda Joseph; Eastern Executive Officer Linda Crook (by phone). Focus of conversation was on process to date and going forward.	Positive feedback, no issues raised

<b>COMMUNITY &amp; NON-GOVERNMENT ORGANISATIONS</b>			
<b>South West Aboriginal Land &amp; Sea Council</b>	2009/2010	Native Title Agreement negotiations	A Native Title agreement for the Project was signed with the WagylKaip / Southern Noongar Peoples in 2010 (National Native Title Tribunal Application # WF09/2).
	Email/phone: 7/06/11	Email correspondence from Principal Legal Officer Maryse Aranda offering a briefing on 18/07/11	Followed up with phone calls but no response received
<b>Esperance Port Consultative Committee</b>	Email: 7/06/11	Meeting scheduled	Later postponed to 18 July on advice from EPSL and DoT
	Email: 04/07/11	EPSL contacted Tectonic to advise they had cancelled the meeting on advice from DoT	Tectonic advised we would contact the members individually to offer a briefing
	Email/phone: 07/07/11	Individual members contacted and offered separate briefings on 18/07/11 and invited to community forums	LED and LEAF representatives were the only members who took up the offer of a briefing
	Meeting: 18/07/11	<p>Meeting with LED and LEAF members (Michelle Crisp, Lisa Julian, Grace Gan, John Richardson, Gary Johnson (LED) Pam Norris). Detailed discussion around the Project, with a focus on environmental management. Key issues raised include:</p> <ol style="list-style-type: none"> <li>1. Will the endangered Carnaby's Black Cockatoos be impacted?</li> <li>2. What measures are planned for weed management</li> <li>3. What measures are planned for dieback management?</li> <li>4. Does the company have other exploration targets, and will this impact the environmental approvals process?</li> <li>5. Tectonichas committed to purchasing 60ha of high quality native bushland as an offset for the EPA. It was suggested this was not a large portion of land given the size of the Project area.</li> <li>6. Can Tectonic established 'trigger levels' to set a limit on the amount of acceptable dust, and ensure the company stops transportation activities if these limits are reached. There was also a request to make the results of dust monitoring available to the public</li> <li>7. Will there be dust monitoring for surrounding crop farm land?</li> </ol>	<ol style="list-style-type: none"> <li>1. Surveys have confirmed that while the area is a foraging site for the cockatoos, there are no nests that will be impacted by the Project. Tectonic committed to contacting Rana Scott of Birds of Australia to brief her on the project and the fauna surveys that have been undertaken.</li> <li>2. Surveys have been undertaken at Kundip to map the distribution of weeds. Eradication of a number of species has occurred and ongoing management of other exotics in accordance with the Weed Management Plan will continue. Tectonic will continue to liaise with the DEC and South Coast Natural Resource Management personnel regarding management of weeds within the Project area.</li> <li>3. Two dieback surveys have been undertaken at Kundip. A number of areas within the Kundip project area cannot be classified as dieback free due to the absence of recognised indicator species. No known areas of dieback have been recorded from within the Project area. Tectonic have a Dieback Management Plan which has been approved by DEC. A wash down facility will be constructed as a key component of the Project to prevent the introduction or spread of</li> </ol>

			<p>weeds/dieback within the Project area.</p> <ol style="list-style-type: none"> <li>4. Tectonic confirmed it is conducting exploration activities on a number of other targets within their tenement holdings. Confirmed that any subsequent mines would need to go through the environmental approvals process separately, and community consultation would be carried out as part of this process.</li> <li>5. The company is still in negotiation with the EPA regarding conservation offsets.</li> <li>6. The company is currently exploring this possibility and will provide feedback to these groups.</li> <li>7. The company will engage with local farm owners to discuss the need for dust monitoring.</li> </ol>
<b>Ravensthorpe Progress Association</b>	Meeting: 1/07/08	Powerpoint presentation	Positive feedback – no issues raised
	Email: 16/06/11	Sent community forum ad for distribution to members	
	Project update: 4/07/11	Sent community forum reminder ad and project update (newsletter vol 2) for distribution to members	
<b>Hopetoun Progress Association</b>	Email: 16/06/11	Sent community forum ad for distribution to members	
	Project update: 4/07/11	Sent community forum reminder ad and project update (newsletter vol 2) for distribution to members	
<b>Munglinup Community Group</b>	Email: 16/06/11	Sent community forum ad for distribution to members	
	Project update: 4/07/11	Sent community forum reminder ad and project update (newsletter vol 2) for distribution to members	
<b>Jerdacuttup Community Association</b>	Email: 16/06/11	Sent community forum ad for distribution to members	
	Project update: 4/07/11	Sent community forum reminder ad and project update (newsletter vol 2) for distribution to members	
<b>Ravensthorpe Hopetoun Coordination Group</b>	Meeting: 9/03/11	Present: Ian Goldfinch (Rav Shire President), Pascoe Durtanovich (Rav Shire CEO), Shane Martin (Western Power), Ella Tribe (Western Power), Chris Gunby, (Dept of Water), Les	It was agreed that the relative impact of Tectonic on total activity would be minimal and several years away after the development of FQ RNO and Galaxy. Considerable

		Crawley (DOE), Jacqui Abbot (FQM), Adaan Adams (DEC), Chris Rainsford (Galaxy) Terry Stark (Galaxy), Jason Stirbinskis (Tectonic), Steve Nanyi (Dept of Immigration) Shane Liddelow (GEDC). Set terms of reference for RHCG – in summary. Main role is to plan and develop utilities and services which will be required due to the increase in population / visitors to the area with the commencement of Galaxy, FQM and Tectonic and the Fitzgerald River National Park Enhancement Project. Issues explored included capacity of water supply, power supply, medical facility, and growth expectations of major industries in the region.	discussion was held around the potential of Tectonics Wind solution to resolve Ravensthorpe’s power brownouts.
	Email: 16/06/11	Sent community forum ad for distribution to members	
	Project update: 4/07/11	Sent community forum reminder ad and project update (newsletter vol 2) for distribution to members	
<b>Conservation Council of WA</b>	Phone conv.: 30/03/05	Phone call to discuss project	Did not wish to be briefed on the project until after receiving a copy of the NOI
	Phone conv.: 20/05/05	Phone call to ask if any queries with regards to Trilogy NOI	No questions raised
	Project update: 12/10/05	Submission of Draft EPS Document for comment	No response
	Meeting: 20/09/2011	Meeting with Dr Nick Dunlop (Citizen Science Project Coordinator), Alaya Spencer-Cotton (Environment and Sustainability Policy Officer)	Issues raised included: <ul style="list-style-type: none"> <li>• Impacts to bats at Kundip</li> <li>• Rehabilitation monitoring</li> <li>• Post mining land use</li> </ul>

<b>Wildflower Society of WA</b>	Phone conv.: 17/11/04	Phone call to discuss project	
	30/03/05	Trilogy NOI sent	
	21/05/05	Phone call to ask if any queries with regards to Trilogy NOI	No questions raised
	12/10/05	Submission of Draft EPS Document for comment. Feedback: 1. Offsets – why only 49 ha allocated for a major impact on a proposed nature reserve 2. Concern re use of saline water for dust suppression - adverse impacts on the surrounding flora. 3. Request to see rehabilitation and closure criteria	1. Offsets: Negotiating an alternative offset package, include land (>49ha) and contributions to regional conservation 2. Saline water for dust suppression: In light of potential impacts, proposed to use fresh water or other dust suppressants. 3. Rehabilitation and Closure: Targets have been set in the Draft Kundip and Trilogy Rehabilitation and Closure Plans - subject to review based on rehabilitation experience. Closure standards, objectives and criteria in terms of defining monitoring of rehabilitation will be further developed as the project progresses and there is more of an idea of site specific needs and requirements.
<b>Malleefowl Preservation Group</b>	7/01/05	Phone call to discuss project	Incubation of eggs and techniques for surveys included as a commitment within EPS document.
	19/09/2011	Meeting	Project update, survey effort, management measures and future survey

	12/01/05	Phone call with Leonie McDonald to discuss project	
<b>Birds of Australia</b>	19/07/11	<p>Meeting with Rana Scott to discuss Project. Details of fauna and flora surveys conducted to date were provided. Following detailed discussion, Rana confirmed she was satisfied with the measures taken to date to ensure the management of Carnaby Cockatoos. Specific feedback included:</p> <ol style="list-style-type: none"> <li>1. BOA advised that Carnaby's Cockatoos have been found nesting in much smaller Salmon Gums than previously known</li> <li>2. Concern re road strike</li> <li>3. Queried whether the wind farm is in the flight path of juvenile CC's nesting on the Phillips River</li> <li>4. BOA advised it would be helpful if Tectonic could maintain a 'sighting' register to allow BOA to better understand the species in the area</li> </ol>	<p>Tectonic committed to sending all relevant reports to BOA and offering a site visit in the future.</p> <ol style="list-style-type: none"> <li>1. Tectonic confirmed that there were no salmon gums in the mining region</li> <li>2. Tectonic advised that driver education regarding road strike risks would form part of their training</li> <li>3. Tectonic confirmed the wind farm is not near Phillips River and they had prepared a report on the potential impact of the wind farm. Tectonic committed to sending this report to BOA</li> <li>4. Tectonic agreed to action this</li> </ol>
<b>Hopetoun Ravensthorpe Railway Heritage Trail</b>	16/12/10	Email correspondence: Will the Kundip-Trilogy haul road interfere with the Railway Heritage Walk?	No the Kundip-Trilogy haul road will not intersect the Railway Heritage Walk. The only place it will be intersected is on the existing main access road.
<b>Heritage Council</b>	4/01/05	Requested further information on Harbour View mine shaft	Further information sent through on 21 February. Letter received from Heritage Council on 16 March 2005 indicating that it has been removed from the backlog of Heritage Places.
<b>WA Museum</b>	7/01/05	Phone call to Ron Johnston regarding management of Carnaby's Cockatoos	Management measures incorporated within EPS document.
<b>Gondwanalink Project</b>	7/01/05	Phone call regarding development of project in relation to Gondwanalink Project	



<b>Media</b>	Interview: 16/03/11	Interviewed on ABC regional radio	Grab repeated hourly on ABC national radio
	Interview: 18/03/11	Interview with Alex Paull, Esperance Express	Headline article communicating the detail of the Project; Follow up article exploring the potential wind powered solution
	Project Update: 9/06/11	Media release sent to Community Spirit detailing the project and promoting the community forums	Article in Community Spirit
	Interview: 30/06/11	Briefing with Laura Vardy, Esperance Express detailing the project and community forums	Headline article on Project and specific detail around shipping of lead through Esperance and inviting people to attend the community forum. Another article in the same edition on the wind power solution
	Interview: 30/06/11	Interview with Tara de Landgraft detailing the project and community forums	News announcement and interview grab
	Interview: 14/07/11	Radio interview with Hope FM	Live to air, covering project details and community forums
	Interview: 18/07/11	Interview with John Wibberley, ABC Kalgoorlie	Live to air, covering project details and community forums
	Community Service Announcement: 18/07/11	Community Service Announcement sent to RadioWest 747 AM	Details of community forums announced
	Interview: 20/07/11	Interview with ABC South Coast and Great Southern	Live to air, covering project details and community forums
	Media release: 21/07/11	Media release detailing outcome of community forums distributed to: ABC Esperance, Kalgoorlie, Albany and Great Southern; Esperance Express; Community Spirit; Kalgoorlie Miner; HopeFM	

<b>Hopetoun Community</b>	Community forum: 27/10/04	Presentation to Hopetoun community members at Hopetoun Mary Anne Haven Centre. Questions surrounded: size of the workforce, the Hopetoun- Ravensthorpe road, the weight of haul loads, noise generated from blasting, light pollution, groundwater and flow-offs	All questions were answered to the satisfaction of attendees, and these topics formed the basis of future communication efforts.
	Community forum: 19/07/11	<p>Detailed Project presentation to 61 community members. Questions were asked around: exploration plans; transportation of gold product; and purchase of shares. Specific issues raised included:</p> <ol style="list-style-type: none"> <li>1. Why is the company proposing to build a separate haul road from Hopetoun to Ravensthorpe rather than using existing road?</li> <li>2. Will noise and dust from the operation impact on the adjacent Kulaba farm land</li> <li>3. Could the Trilogy pit fill with water and flood with heavy rainfall, and would this impact the Steere River?</li> </ol>	<ol style="list-style-type: none"> <li>1. Discussions are still underway regarding the haul road, however the Shire has agreed to the development of a haul road because of the increase of traffic that would occur. The haul road would still fall within the easement of the existing road.</li> <li>2. Noise impacts were considered during the initial proposal however this may need to be reviewed in light of the latest plans. Tectonic committed to meeting with Stott Redman of Kuliba farm to discuss these issues separately and ensure all necessary management measures are put in place.</li> <li>3. The pit and diversion lakes have been designed to manage a 100 year flood event and it would be extremely unlikely to exceed these levels. The material used in the pit will not alter the quality of the groundwater or surface water - however the company will monitor the Steere River if required.</li> </ol>

<b>Ravensthorpe Community</b>	Community forum: 29/10/04	Presentation at Ravensthorpe Red Room, discussion around traffic on the Ravensthorpe- Esperance road, water usage, haul road, trucks, and the railway/heritage walk?	All questions were answered to the satisfaction of attendees, and these topics formed the basis of future communication efforts.
	Community forum: 19/07/11	Detailed Project presentation to 47 community members. Questions were asked around: lining of the IWL; chemicals used in processing; wind power solution; historic Kundip town site; drilling and exploration activities; and impact of carbon tax. Specific issues raised included: <ol style="list-style-type: none"> <li>1. Tectonic's Notary Hill tenement shares a name with the Notary Hill in the national park land. This can cause confusion.</li> <li>2. Can the residual value of the potential wind power farm be used for power into the grid?</li> <li>3. Can the company make their project updates available in local stores as it has for the last edition?</li> </ol>	<ol style="list-style-type: none"> <li>1. Tectonic confirmed it had inherited this name from the previous owners but would look into changing the name to avoid confusion.</li> <li>2. There may well be residual value in the wind farm beyond Tectonic's operations and the company would sell on this asset at this point.</li> <li>3. Yes, committed to doing so, and all members of the community who have registered their details will also receive these to their email/postal address.</li> </ol>
<b>Esperance Community</b>	Conference: 02/03/11	Over the Horizon Business & Industry Forum GEDC presentation: General company presentation; Audience of approximately 200 representing other mining companies and suppliers and interested local businesses	General questions followed including some specifics around potential windpower
	Conference: 16/03/11	Eastern Goldfields – Yilgarn Resource Developments Conference presentation: General company presentation; Audience of approximately 40 representing other mining companies and suppliers and interested local businesses	General questions followed including some specifics around potential windpower
	Community forum: 20/07/11	Detailed Project presentation to 51 community members. Questions posed regarding: IWL; funding for wind power; and residential plans for employees. Specific issues raised included: <ol style="list-style-type: none"> <li>1. Has the company considered offering apprenticeships or training opportunities?</li> <li>2. Where would the power produced by the wind farm be directed?</li> <li>3. Has the company considered gas power as an alternative to diesel?</li> </ol>	<ol style="list-style-type: none"> <li>1. Tectonic has met with VTEC to discuss this opportunity and is more than happy to invest in training to meet its skills requirements.</li> <li>2. The power generated by the wind farm would be directed into the project and would not link up to the grid – but that said, the asset would likely exist post-mining so there may be an opportunity here</li> <li>3. Yes, however the company would be happy to explore this further if local businesses believe they would have a suitable option.</li> </ol>
<b>Ravensthorpe District High School</b>	Meeting: 14/05/11	Meeting with Kate Wilson, Principal	Agreed to conduct school presentation in Term 3

<b>Esperance Senior High School</b>	Meeting: 23/05/11	Meeting with Cathy Bamblett, Principal	Agreed to conduct school presentation in Term 3
-------------------------------------	----------------------	--	---

## Appendix B: Communication Material

### Project Update Newsletter

# Phillips River Project Update

Volume 1 Issue 2 — July 2011



## Message from the Managing Director

Welcome to our second issue of the Phillips River Project Update.

The Phillips River Project is Tectonic's flagship project and is set to provide a range of benefits to the communities of Hopetoun, Ravensthorpe, Jerdacuttup, Munglinup and Esperance.

From two mining regions, the Project will produce silver and gold on site, as well as a copper concentrate and a base metal concentrate. The project will generate \$1 billion in revenue and produce long term work and business opportunities for local residents.

We hope to get the project started in early 2012.

Tectonic has been part of the Ravensthorpe and Hopetoun communities for more than ten years and we are keen to keep residents fully informed about our operations.

This newsletter is one way to provide more information about our plans. In coming months we will be talking to a number of stakeholder groups and providing opportunities to meet with the local communities to discuss our plans for Phillips River.

I urge you to take these opportunities to get in touch should you have any questions or concerns.

Kind regards

**Jason Stirbinskis**  
Managing Director



## Please join us at a Community Forum

The communities surrounding Phillips River, including Hopetoun, Ravensthorpe, Jerdacuttup, Munglinup and Esperance all have a stake in the Phillips River Project and so Tectonic is committed to communicating with these communities in an open and transparent way.

Come and learn more about the Phillips River Project at one of our community forums in July, where Managing Director Jason Stirbinskis will detail plans for environmental management, housing and transport, as well as employment and business opportunities.

**Tuesday 19 July**  
Ravensthorpe / Jerdacuttup  
Entertainment Complex  
5:00pm

**Hopetoun**  
Town Hall  
7:30pm

**Wednesday 20 July**  
Esperance  
Civic Centre  
4.30pm

For further details, please call  
Caroline Thomson on 0410 479 489



Chris, our field manager and Esperance resident for over 9 years

# About the Phillips River Project

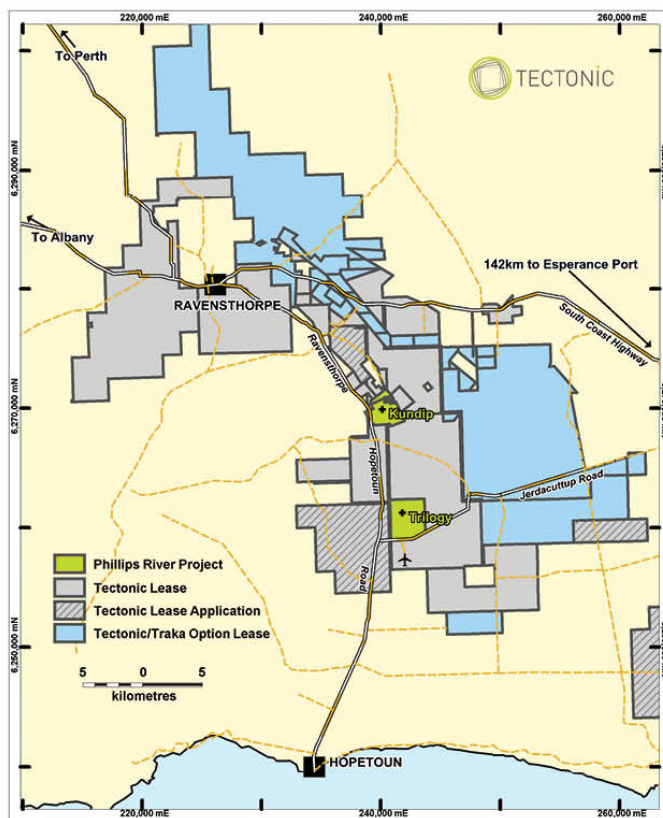
The Phillips River Project is located midway between Ravensthorpe and Hopetoun. The Project will commence with an open pit mine at Trilogy (near the Ravensthorpe airport) then, about 5 years later, a mine at Kundip about 10kms away.

An 800kt per annum processing plant will be built at Trilogy on farmland owned by Tectonic.

Tectonic is well placed to develop the Phillips River Project with existing established infrastructure, including an exploration office located at the project site, an 88 room camp established in Ravensthorpe and other infrastructure located at its nearby decommissioned RAV 8 mine and processing facility.

The Trilogy plant will produce gold and silver bar which will be sent to the Perth Mint for further refining, as well as a copper concentrate and base metal concentrate containing zinc and lead sulphide, which we intend to ship via Esperance for processing at smelters in Asia.

The company is aiming to commence development of the plant and mine at Trilogy next year with production targeted for 2013. More specific target dates will be confirmed following confirmation of off-take agreements and approvals timelines.



Phillips River Project Map





Bruce, our Exploration Manager has been with the company for 6 years

### Social & Economic Benefits

Tectonic has been part of the Hopetoun / Ravensthorpe region since 1997 and over this time we have developed a strong and active role in the local communities as a key employer and contributor, and we look forward to continuing this role.

For the proposed Phillips River Project, approximately 80 people will be required during the construction phase. When mining at Trilogy is underway, the estimated workforce will also be around 80 people - a combination of Tectonic employees and contractors. Total numbers will increase to around 170 people when we start mining at Kundip in about 2018.

While we intend on continuing our policy to employ local residents and businesses, we understand other businesses in the region also need to retain a stable and skilled workforce. Achieving the right balance is a challenge we will work hard to meet.

The company also has a strong reputation of community support, contributing to the region in the areas of environment, sport, health and education, including financial and in-kind support for:

- Ravensthorpe Volunteer Fire Brigade
- Ravensthorpe & District High School
- Hopetoun Junior Football Club
- Hopetoun & Ravensthorpe Golf Club Hacker Day
- Ravensthorpe St Johns Ambulance
- Esperance Cannery Art Gallery

Tectonic is committed to working with local communities and State Government to ensure the development of the Phillips River Project is balanced with responsible management of the environment, and providing real economic benefits to the community – and we look forward to even greater involvement in the local communities in the coming years.

### Environmentally Responsible Development

Tectonic is privileged to operate in the region and is committed to caring for our environment.

The Trilogy site is on cleared pastoral land, and the Kundip site has been mined since the early 1900s. In fact, rehabilitation of the area post-mining will leave both sites in much better shape than if they were left in their current state.

We have already conducted extensive studies through Outback Ecology, one of the most respected environmental consultancies in WA, to get a clear picture of the Project's environmental impacts and will continue strict monitoring throughout the Project.

We have also contributed to a number of environmental initiatives beyond the boundaries of our Project over recent years, including the Department of Environment and Conservation's 'Western Shield' program. Western Shield is bringing animals, such as the numbat, back from the brink of extinction through fox baiting and fauna reintroduction activities.

“Development of the Project will be balanced with responsible management of the environment, and providing real economic benefits to the community.”

### More Information

**Jason Stirbinskis**  
Managing Director  
E: [jason.stirbinskis@tectonic.com.au](mailto:jason.stirbinskis@tectonic.com.au)

OR

**Caroline Thomson**  
Community Relations  
M: 0410 479 489  
E: [caroline.thomson@tectonic.com.au](mailto:caroline.thomson@tectonic.com.au)

[www.tectonic.com.au](http://www.tectonic.com.au)



### Water and Power

The Project will use water taken from the site, mostly by dewatering of the mine operation. This is quite saline, low quality ground water and will remain on site. There will be no flow of water from Tectonic's site.

Tectonic will use diesel generators for the 6 to 8 mega watts of power required, eliminating the need to draw power from the grid.

It is possible that the Phillips River Project will be the first wind powered mine in the world, thereby avoiding burning 3 million litres of diesel each year.

We are very excited about this opportunity and are currently working at ways to make this happen.

### Health and Safety

Maintaining the highest health and safety measures within our operations and in the community is essential.

Internally, we will be ensuring strict health and safety guidelines are adhered to at all times, maintained to ensure the safety and wellbeing of our employees. Health and safety training and ongoing monitoring will be integral to the culture of safety at the Phillips River Project.

As well as being central to the welfare of our employees, health and safety processes are also essential to protect the communities in which we operate.

Baseline dust and soil sampling will be undertaken along the transport route, and dust monitoring stations will be maintained throughout the life of the operation.

### Transport

Double-bagged and containerised concentrate will be trucked from Trilogy along Jerdacuttup Road then onto South Coast Highway to Esperance Port. For most of the operation, road-trains will travel this route around two times a day.

About 40% of the concentrate produced will contain around 25% lead as lead sulphide. Importantly, this form of lead is very different and far safer than the lead carbonate which was shipped through Esperance in the past. Unlike lead carbonate, lead sulphide is practically insoluble, with low bioavailability.

Product containing lead sulphide is typically bulk loaded, however Tectonic will double-bag and containerise all concentrates on site prior to transport. This is world's best practice and above and beyond regulatory requirements for this type of material.



**Community Questionnaire**

# TECTONIC

## COMMUNITY QUESTIONNAIRE



Please complete the short questionnaire below and return to Tectonic by following the simple instructions below:

1. Fold the form as indicated over the page
2. Seal closed using the adhesive strip
3. Deposit in any Australia Post mail box or return to Tectonic staff at one of the upcoming Community Forums.

The information you provide will allow Tectonic to better meet the needs of the community now and in the future. This questionnaire is for Tectonic's internal use only, and your personal details and responses will remain confidential.

\*Name: \_\_\_\_\_

\*Phone (h): \_\_\_\_\_ (m): \_\_\_\_\_

\*Address: \_\_\_\_\_

Postcode (compulsory): \_\_\_\_\_

\*Email: \_\_\_\_\_

(\* = optional)

What is your interest in the proposed Phillips River Project?  
(Tick all that apply)

- Work nearby
- Live nearby
- Involved in the resources industry
- Other, please specify \_\_\_\_\_

Do you think this project will bring benefits to your community?

- Yes       No       I don't know

If yes, in what areas?

- More services
- Job opportunities
- Infrastructure
- Other, please specify \_\_\_\_\_

Do you feel you have enough information to allow you to form an opinion about the project proposal?

- Yes       No       I don't know

Are there aspects of the project you would like to know more about or would like to discuss?

- Employment
- Environment
- Operations
- Other, please specify \_\_\_\_\_

Would you like us to send you more information?  
(If yes, please ensure your contact details are provided)

- Yes       No

Do you have any concerns about the proposal?

- Yes       No

If yes, please specify:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

What is the best way to let you know about project updates and developments? (Tick all that apply)

- #Letter box drop
- Email
- Community display / meeting
- Website
- Announcement on local radio
- Other, please specify \_\_\_\_\_

(\* = Please ensure you have provided your name and address details)

Do you have any other comments?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Community Forum Advertisement**

# PHILLIPS RIVER PROJECT – COMMUNITY FORUMS

Western Australian-based mining company, Tectonic Resources is focused on developing its flagship Phillips River Project located between Hopetoun and Ravensthorpe, 180kms west of Esperance. The proposed \$1 billion Phillips River Project will include a mine and process facility producing silver, gold and concentrates to be exported via Esperance Port.



Community members are invited to hear from Tectonic's Managing Director Jason Stirbinskis about plans for the Phillips River Project, including environmental management, transport, employment and business opportunities.

19 July

**Ravensthorpe / Jerdacuttup:** Ravensthorpe Entertainment Complex. 5.00pm

**Hopetoun:** Hopetoun Town Hall. 7.00pm.

20 July

**Esperance:** Esperance Civic Centre. 4.30pm

**For more information contact:**

Caroline Thomson

**Mobile:** 0410 479 489

**Email:** caroline.thomson@tectonic.com.au

[www.tectonic.com.au](http://www.tectonic.com.au)



**Community Forum Presentation**

New focus. New future.

Phillips River Project  
Community Forum  
July 2011



TECTONIC

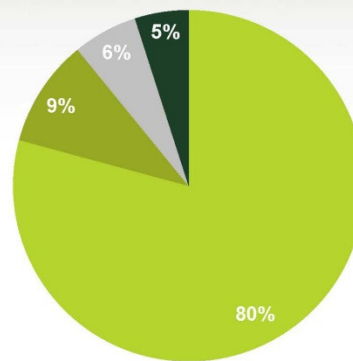
### Who is Tectonic?

- West Australian-based ASX-listed resources company
- Proven track record as a producer in the region (RAV 8 Nickel in Ravensthorpe)
- Focused on developing Phillips River Project between Hopetoun & Ravensthorpe
- Definitive Feasibility Study (DFS) completed in Feb 2011
- Commenced off-take and debt funding conversations
- Aiming to commence environmental approvals process in the coming months



### Proposed Phillips River Project

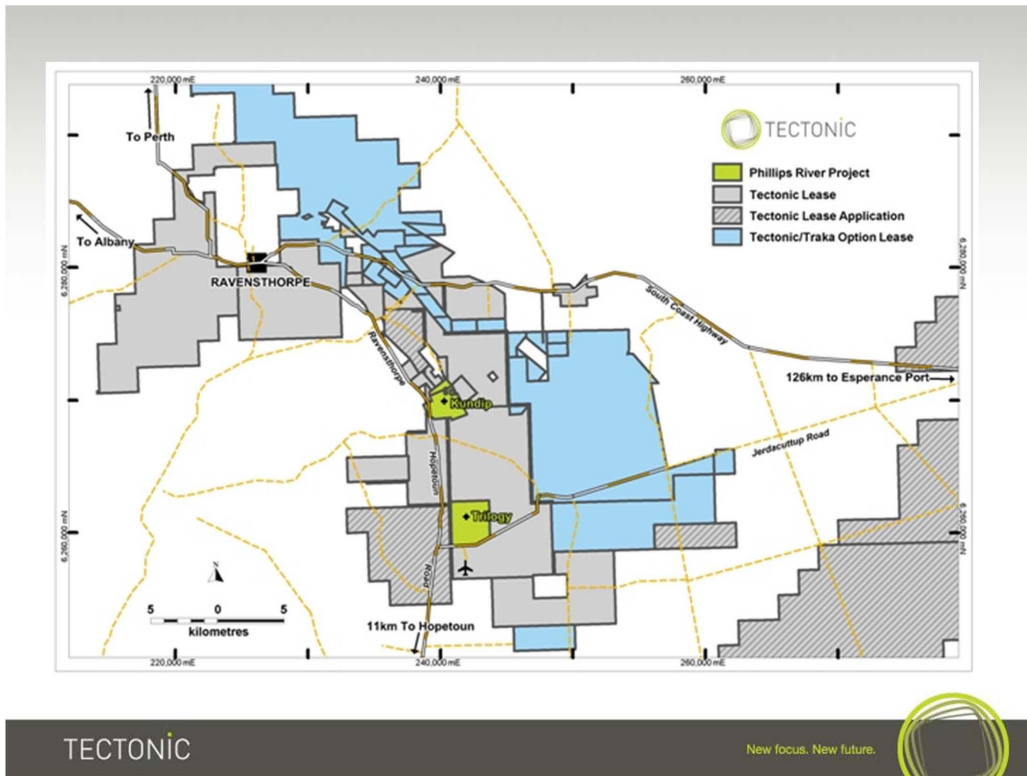
- Project to commence with open pit mine at Trilogy
- 5 years later, mining will commence at Kundip, about 10kms away
- 800kt/annum processing plant built at Trilogy producing:
  - gold and silver bar for domestic market
  - copper concentrates and base metal concentrate containing zinc and lead sulphides to Asian markets
- Key infrastructure already in place - port, RAV-classified roads, exploration office, accommodation camp, some existing structures from RAV 8



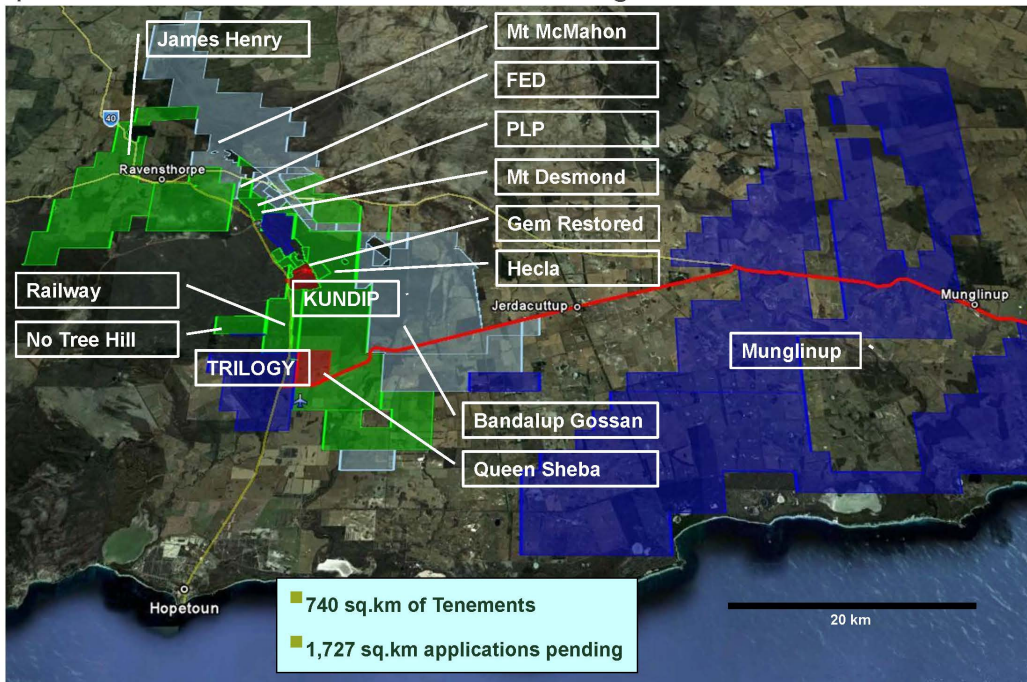
Revenue  
 ■ Gold & copper ■ Silver  
 ■ Zinc ■ Lead





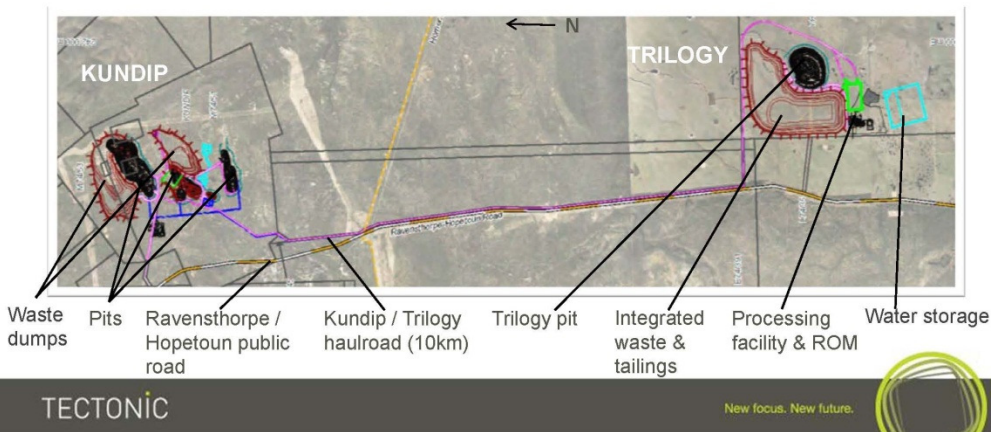


Project Life is likely to extend as we explore and realise the potential of our numerous additional targets

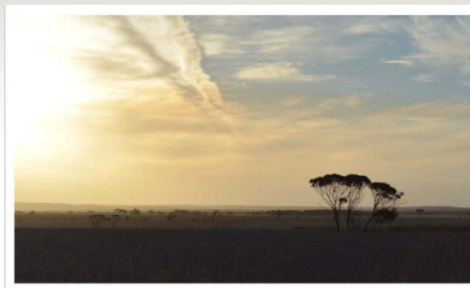
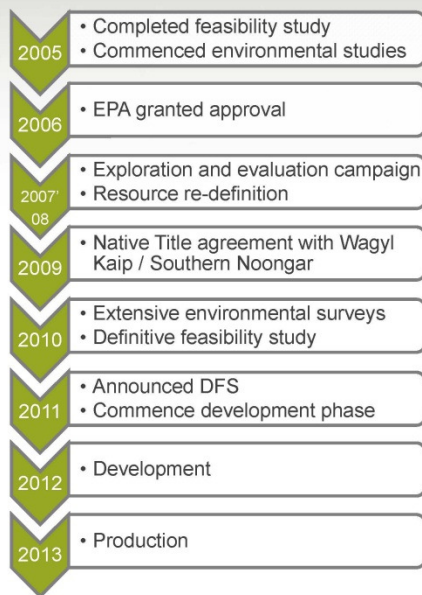


### Mine Locations

- **Trilogy:** Cleared pastoral land within FRNP Biosphere 'zone of cooperation'
- **Kundip:** Disturbed by mining since 1900s
- Proposed Kundip mines will engulf much of the old workings
- Haul road is mostly within public road easement, & diverted around a Melaleuca community near Kundip



### Project Milestones



Offtake and debt discussions  
 Advanced environmental studies  
 Exploration  
 Community consultation  
 EPA submission  
 Public comment  
 Approvals

Award EPCM  
 Engage contractors  
 Trilogy civils and top soil stockpiling  
 Plant build

## Caring for the Environment

- Rehabilitation will re-establish vegetation communities that occurred pre-mining and farming
- Extensive environmental investigations and baseline surveys conducted over 7 years
- Comprehensive environmental management plans developed with DEC, Rav Shire, FESA
- Undertaken significant actions to increase scientific knowledge & improve environmental outcomes:
  - Millennium Seed Bank
  - 5yr funding to Western Shield fox baiting project
  - Funds to surveys outside project area
  - Funds towards weed eradication along roadsides
  - Planned purchase of land for conservation estate



TECTONIC New focus. New future. 

## The Facts on Lead Sulphide

- Lead sulphide very different and far safer than lead carbonate shipped through Esperance in the past
- Lead sulphide is stable, practically insoluble, low bioavailability\*
- Independent Toxicology report to be completed August 2011

Low Bioavailability	Medium Bioavailability	High Bioavailability
Lead Sulfate	Lead Phosphate	Lead Carbonate
Anglesite	Lead Oxide	Mn(M) Oxide
Lead Sulphide		
Pb(M) Oxide	<i>Tectonic product</i>	<i>Lead product previously shipped through Esperance</i>
Lead Oxide		

\* Bioavailability: the degree to which a substance can be absorbed by a living organism

Source: Estimation of relative bioavailability of lead in soil and soil like materials using in vivo and in vitro methods, US Environmental Protection Authority 2007

TECTONIC New focus. New future. 



## The Facts on Lead Sulphide (continued)



*"...Because of these differences in solubility in dilute acid, studies by the USEPA and others have determined that Galena has a very low bioavailability versus that of lead carbonate. The USEPA classifies Galena and Anglesite (lead sulphate) as being of low bioavailability whilst Cerrusite (lead carbonate) is classified as being of high bioavailability (approximate difference of more than 3 fold) ..."*

*"...Handled, transported and monitored well as part of an overall risk management approach, the risk from export of pure Galena as a commercial form of lead is much less than that for lead carbonate – as generally evidenced by the long history of Galena mining and export via ports."*

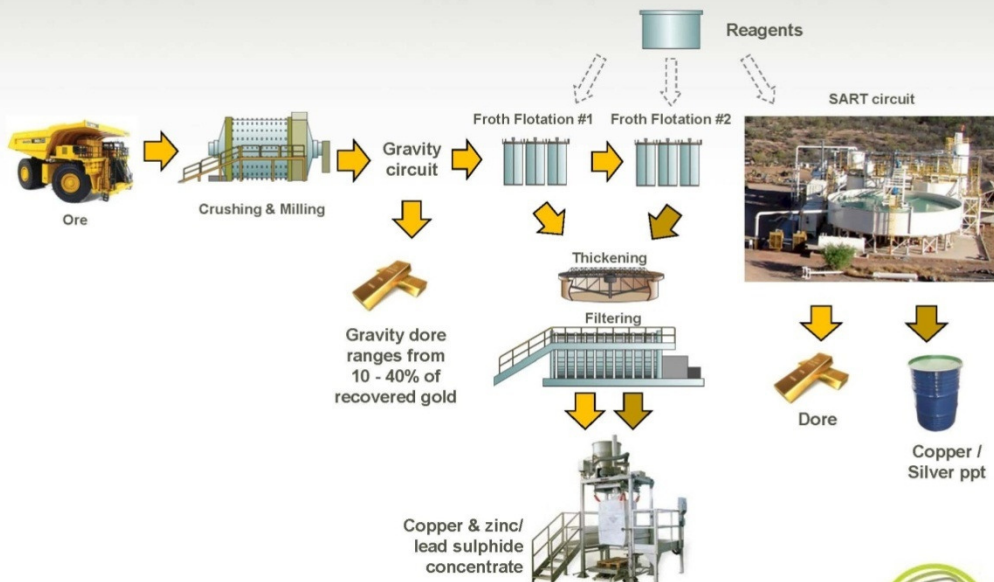
**Dr Michael North, Senior Chemist and Research Officer  
ENVIRONMENTAL CHEMISTRY LABORATORY**

TECTONIC

New focus. New future.



## Phillips River Processing Flowsheet

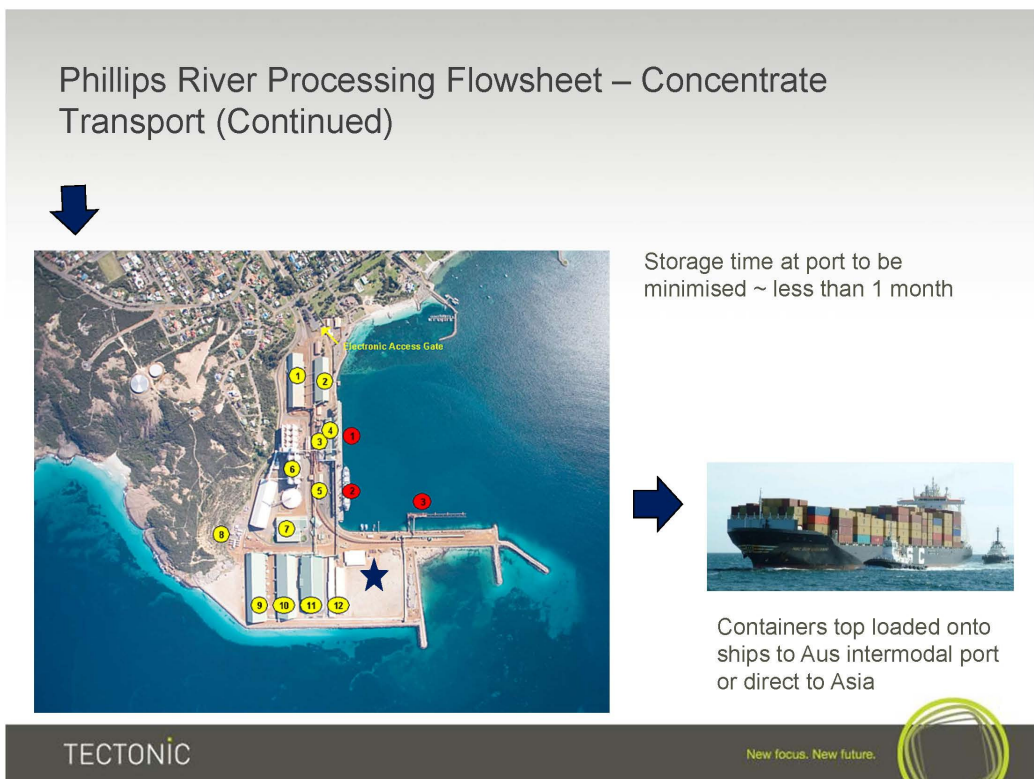
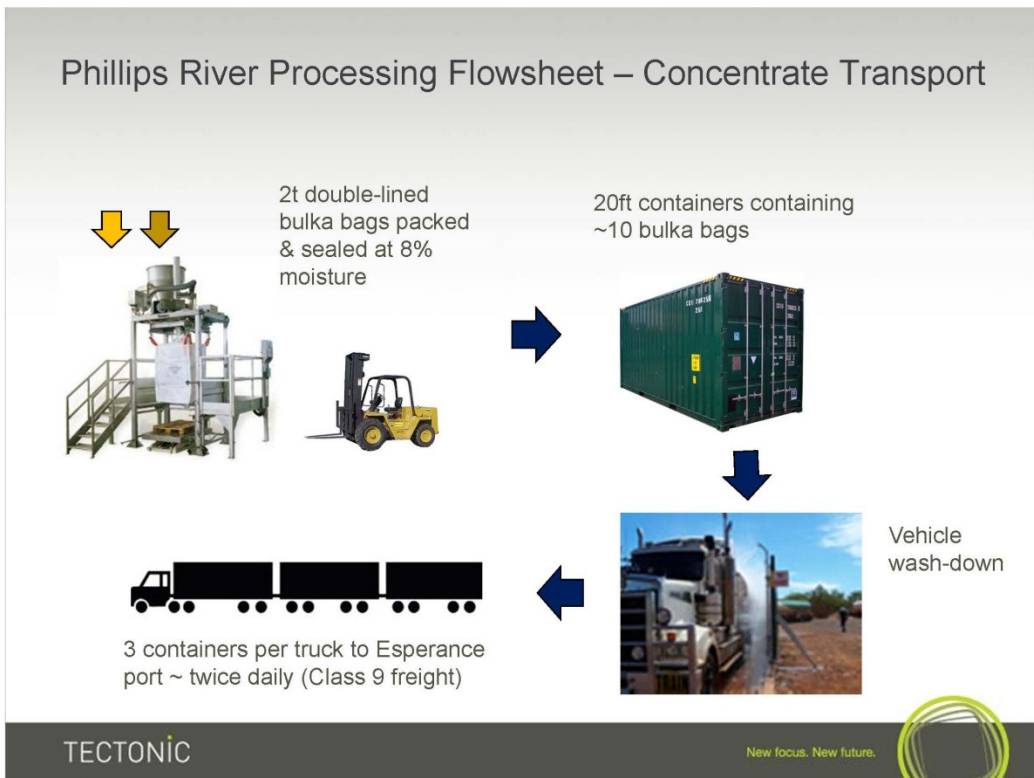


TECTONIC

New focus. New future.







## Concentrate transport

- Concentrate production over life of project = 300kt (~30kt per year)
  - Copper concentrate = 61%
  - Base metal concentrate = 39%
    - Only 25% of the base metal concentrate is lead as sulphide



- All concentrate is Class 9 freight, double bagged and containerised –  
- world’s best practice, above and beyond regulatory requirements



TECTONIC

New focus. New future.

## Concentrate transport (continued)

- Dust monitoring on site has begun
  - Lear Siegler High Volume Air Sampler (HVAS) with PK2100 controller for collecting Total Suspended Particulates (TSP)
- Occupational Health monitoring in place
  - Occupational (exposure) air sampling: TSI 3L sample pumps (TSI SP730)
- Route monitoring will leverage existing stations with additional stations if/where required
- Baselines will be established pre-production and transport

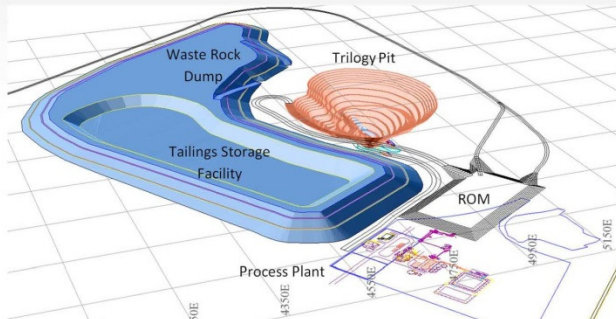


TECTONIC

New focus. New future.

## Phillips River Processing Flowsheet – Waste Management

- All of Trilogy activity is on Tectonic's farmland
- Waste from Trilogy will encapsulate Trilogy tailings
- Trilogy dump to be rehabilitated while still mining at Kundip
- Kundip tailings will backfill the Trilogy pit
- Kundip waste will part backfill Kundip pits



### At mine closure:

- Process plant removed and underlying surface material incorporated into waste dump
- IWL will be planted to native vegetation
- Area fenced and monitored

TECTONIC

New focus. New future.



## End Land Use, Closure Objectives & Criteria

### TRIOLOGY

- Trilogy returned to viable farmland
- Open pit void will be backfilled with Kundip tailings material
- IWL: Geotechnically & geochemically safe, stable non-polluting landform
- Progressively rehabilitate the IWL to support representative & sustainable local flora
- Establish an ecological link to UCL to the west
- Rehabilitation success determined by monitoring – 70% cover & diversity of analogue

### KUNDIP

- Rehabilitation compatible with surrounding Nature Reserve
- Minimise impact to local vegetation, flora and fauna
- Design the landforms to blend with the natural landscape
- Backfill open pit voids if possible
- Progressively rehabilitate the landforms to support representative & sustainable local flora
- Rehabilitation success determined by monitoring – 70% cover & diversity of analogue

TECTONIC

New focus. New future.





## Water, Wind & Power

- The Project will use saline, low quality ground water taken from site, mostly by dewatering of mine
- All water to remain on site - no flow-off
- DFS based on diesel-generated power for 6-8 mega watts – no draw of power from grid
- Potentially the first substantially wind-powered mine in the world
  - Opportunity to avoid burning 3 million litres of diesel/year
  - Set a new standard as we enter an era of carbon reduction policy
  - Currently looking at ways to make this happen



TECTONIC

New focus. New future.



## Tectonic & the Community

- Active in Ravensthorpe/ Hopetoun region for >10 yrs
- Workforce of ~ 80 people during construction
- Workforce of ~ 80 permanent employees during Trilogy operations
- Mining at Kundip will increase total numbers to ~170
- Seek to engage local businesses where ever possible and find a balance between local / new residential / FIFO employment
- Leverage existing 88 room camp at Ravensthorpe
- Committed to supporting local communities, investing \$30,000 each year in environment, health & education



TECTONIC

New focus. New future.



## Stakeholder Consultation

- Coordinated stakeholder engagement programme since 2005 helping shape project parameters

- Ravensthorpe Progress Association
- Ravensthorpe Chamber of Commerce
- Esperance Chamber of Commerce
- Port of Esperance
- Ravensthorpe Community
- Shire of Ravensthorpe
- CASA
- Railway Heritage Society
- Main Roads WA
- Malleefowl Preservation Group
- Southern Aboriginal Corporation
- South West Aboriginal Land and Sea Council
- Shire of Esperance
- Goldfields Esperance Development Commission



## Stakeholder Consultation (continued)

- Continued engagement with stakeholders at local, State, Federal and industry levels

- Ministerial briefings
- Project updates
- State department inter-agency meeting
- Local government meetings
- Industry & special interest group meetings
- Site visits
- Media briefings
- Community forums (19, 20 July)

- Consultation will continue throughout approvals process and throughout mine life



## Summary

- \$1B project, beginning 2013 subject to approvals
- Working cooperatively with local community and Government
- 80+ jobs - seeking local employment where possible
- Native Title Agreement signed with Wagyl Kaip / Southern Noongar Peoples
- Trilogy site is on cleared pastoral land, Kundip site disturbed by mining since early 1900s - rehabilitation will re-establish vegetation communities that occurred pre-mining and farming
- Potential to be the first wind powered mine, setting a new standard as we enter an era of carbon reduction policy
- Lead sulphide is very different and far safer than lead carbonate shipped through Esperance in the past. Even so, Tectonic will use world's-best practice for mining, transport and handling, above and beyond regulatory requirements
- Both concentrates will be double-bagged and containerised prior to transport
- Commence environmental approvals process in the coming months, with additional environmental impact assessments planned

TECTONIC

New focus. New future.



Thank you.

[www.tectonic.com.au](http://www.tectonic.com.au)

**T: 08 6250 4600**

**F: 08 6250 4699**

**Jason Stirbinskis**

**Managing Director**

[jason.stirbinskis@tectonic.com.au](mailto:jason.stirbinskis@tectonic.com.au)

TECTONIC


New focus. New future.



**Community display posters**

# PHILLIPS RIVER PROJECT

## Contributing to the Community



### COMMUNITY SUPPORT

Tectonic has been active in the Ravensthorpe/Hopetoun region for more than 10 years, and has committed to investing \$30,000 each year to support community events and initiatives.

### EMPLOYMENT OPPORTUNITIES

The company will seek to engage local residents and businesses wherever possible, balancing local, new residential and FIFO employment. In addition to job opportunities, the Project will create other flow-on benefits to the region and the State.

### CONSULTATION


Tectonic has conducted a significant stakeholder consultation program since 2005 to help shape the Project parameters. The company looks forward to continued consultation and open dialogue with the community and other stakeholders throughout the life of the Project.



[www.tectonic.com.au](http://www.tectonic.com.au)

# PHILLIPS RIVER PROJECT

## Caring for the Environment



### SITE SPECIFICS


The Trilogy site is on cleared pastoral land, and the Kundip site has been mined since the early 1900s. We aim to leave both sites in much better shape than if they were left in their current state.

### WATER & POWER

The Project will use saline, low quality ground water, and there will be no flow-off of water from site. It will run on diesel-generated power avoiding any draw of power from the grid, and it has the potential to be the first substantially wind-powered mine in the world.

### WORK TO DATE

Extensive environmental investigations and baseline surveys have been undertaken, and comprehensive environmental management plans have been developed. The company has also made significant contributions to improve environmental outcomes in the region.



[www.tectonic.com.au](http://www.tectonic.com.au)



## Appendix C: Media Releases

### Media Release

30 June 2011

### Community forums for Phillips River Project

Western Australian-based mining exploration and development company Tectonic Resources will be holding community forums in July to provide information on its proposed Phillips River Project, located between Ravensthorpe and Hopetoun, 180km's due west of Esperance.

The company is inviting residents and business owners to come to community forums in Hopetoun and Ravensthorpe on 19 July, and in Esperance on 20 July, where Managing Director Jason Stirbinskis will present detailed information on the proposed Phillips River Project.

The proposed Phillips River Project will generate \$1 billion in revenue over 10 years through the sale of gold and silver bullion on the domestic market, as well as copper concentrates and a bulk concentrate containing zinc and lead sulphides to Asian markets. Plans are for concentrates to be double-bagged, containerised and transported by road to the Esperance Port for shipping.

The company expects the project to become a processing hub with a life extending beyond the initial 10 years and producing long term work opportunities for local residents.

Tectonic's Managing Director Jason Stirbinskis said the community forums and site visit will provide the opportunity for members of the public to find out about plans for the project, including employment and business opportunities and plans for environmental management, housing and transport.

"The communities surrounding Phillips River, including Hopetoun, Ravensthorpe, Jertacuttup, Munglinup and Esperance all have a stake in the Phillips River Project and so it's important we communicate with these communities in an open and transparent way," Jason said.

"The project will result in job opportunities and flexible employment options for local residents, as well as flow-on benefits for contractors and suppliers, with our preference being to 'buy local' wherever feasible. During construction, the project will have a workforce of around 80 people, building to around 170 at peak production.

"Obviously we are mindful of community concern surrounding lead export, particularly in Esperance, and so we want to be clear that the lead sulphide concentrate we plan to export is virtually insoluble, with low bioavailability, which makes it inherently safe in comparison to the lead carbonate that was previously shipped through Esperance. Even so, all concentrates will be double-bagged and containerised on site prior to being transported, which is re beyond world's best practice for this type of material."

The Phillips River Project will redefine Tectonic as an important silver, gold, and concentrates producer and will be a significant project in WA's southern region.

The company will commence the environmental approvals process for the project in the coming months, and is aiming to commence development by 2012 with production targeted for 2013.



The community forums will be held on Tuesday 19 July at 5.00pm in the Ravensthorpe Entertainment Complex and 7.00pm at the Hopetoun Town Hall, and on Wednesday 20 July at 4:30pm in the Esperance Civic Centre.

ENDS

**For more information contact:**

Caroline Thomson

M: 0410 479 489

E: [caroline.thomson@tectonic.com.au](mailto:caroline.thomson@tectonic.com.au)

**Media Release**

**21 July 2011**

**Tectonic Resources' community forums a success**

Community forums held by Tectonic Resources in Ravensthorpe, Hopetoun and Esperance over the 19<sup>th</sup> and 20<sup>th</sup> of July were a great success, with more than 150 community members attending to find out about the Phillips River Project.

The events in Ravensthorpe, Hopetoun and Esperance drew 47, 61 and 51 people respectively.

According to Managing Director Jason Stirbinskis the company was extremely pleased with the outcome of the forums.

"It was great to be able to present to a packed house in Ravensthorpe, Hopetoun and Esperance. After the main presentation, we were able to answer a number of good questions from community members and also received some valuable feedback to consider in our plans," Jason said.

"It was also a pleasure to meet with many of the local residence who worked for Tectonic during our Rav 8 mining days and have remained interested in our progress.

"We appreciate that it's not always easy to find time to attend these events, and so we would like to thank everyone who braved the cold weather to come along."

Questions from community members ranged from clarification of the closure and rehabilitation plans, through to funding options for the potential wind power solution for the operation.

"It's pleasing to see that people in the region are engaged and want to know more about the Phillips River Project, and we look forward to continuing to keep everyone informed of our progress," Jason said.

"We're committed to open and transparent communication with the communities in which we operate and that means engaging with residents and businesses not only through the upcoming environmental approvals process, but throughout the life of the Phillips River Project."

Tectonic plans to submit the Phillips River Project to the Environmental Protection Authority (EPA) for assessment in the coming weeks. Following this, the company expects to enter a Public Environmental Review (PER) process, which will include a period for public comment.

ENDS

**For more information contact:**

Caroline Thomson

M: 0410 479 489

E: [caroline.thomson@tectonic.com.au](mailto:caroline.thomson@tectonic.com.au)

## Appendix D: Media Monitoring

### ABC News

22 June 2011

#### Shire casts doubt over mine benefits

The Shire of Ravensthorpe in Western Australia's Great Southern says it has its doubts about whether a new gold and copper mine would benefit the local economy. TectonicResources, which owns the decommissioned RAV 8 nickel mine in Ravensthorpe, has recently completed a definitive feasibility study on three deposits at its Phillips Riversite. A lithium mine is already operating in the Ravensthorpe area, with a nickel mine to open soon. Ravensthorpe Shire president Ian Goldfinch says he is concerned the town will struggle to cope. He says the mines generate an increased demand on the community but only pay very small agricultural land rates to the shire. "At the moment, these three mines are not really producing a lot of money for the shire," he said. "They may say yes, you are producing money in rates for housing, but we are really pushing to make our budgets work because these mines are not actually putting good size rates into the shire."

### ABC Esperance

1 July 2011

A Ravensthorpe miner doesn't believe that they will have trouble shipping lead through the port of Esperance when they start production in 18 months' time. Tectonic Resources hopes to start construction at its south coast gold copper deposit, within the next twelve months and it is currently undertaking a community consultation process.

Along with the precious metals a base metal concentrate will also be extracted which includes lead sulphate. In 2007 hundreds of birds died and some residents recorded high lead levels after lead carbonate was shifted into the town, however the companies Jason Stirbinskis said that the metal would be double bagged, containerized and is in a relatively benign form anyway.

He told Tara De Landgraft that the project is coming along nicely and that he hopes the current high gold price attracts more investors.

*"We have got three main activities we need to focus on at the moment. One is making sure that we have got some debt funding in place. The second is making sure that we have got a buyer of our products, probably out of China but presumably somewhere in Asia. And the third is going through community consultation exercises EPA approvals and those sorts of things. So those three really dictate when we start construction, but we can say with reasonable confidence it will be in 2012 with production somewhere in 2013."*

"Now, you mention a buyer for your products obviously majority gold producer but there are also some other metals that are going to come out of the mine. What in fact is coming out and where are they going to?"

*"Ok we produce three types of product – first of all we produce an unrefined gold bar that is a substantial amount of our revenue that will go up to Perth Mint presumably for refinement. And then we produce two concentrates – the copper concentrate again probably into Asia somewhere for smelting there and a base metal concentrate which is a lead zinc sulphate concentrate and again it will end up somewhere in Asia for smelting."*

“That base metal concentrate, you obviously mention there is lead in there and given there is community consultation coming up in the next couple of weeks in both the Esperance communities and Ravensthorpe communities, what sort of feedback are you expecting from the communities given what’s in that concentrate?”

*“Yes we certainly want to be open and transparent with what is going on here. Yes you are right one of the concentrates contains zinc and lead, but it is important to point out that the lead is lead sulphate and it is fundamentally different to the product that was through Esperance in the past lead carbonate product, it has very low bioavailability, it has very very low solubility, it is shipped through many ports around the world unlike lead carbonate which is a very unusual and difficult product to deal with.*

*Yes it does contain lead but as far as its comparison to lead carbonate that’s where it ends. It is a fundamentally different substance. Not only that, we plan of double bagging it, we plan on containerizing it and it is only a small component of the total production.*

*You know when we are in production it is roughly two trucks a day heading into Esperance, but remember two thirds of that is copper concentrate, not the product containing the lead sulphate. And of that other third, the third that does contain zinc and lead only 25% of that is this lead sulphate product.”*

“Another hurdle of course is approvals, the approvals process. You received EPA approval in 2006, things have changed a little since then, are you hoping it is going to be an easy process to regain those approvals given you already received them back then?”

*“Look I think when people understand the facts about what we are producing and how we are managing it and the lengths that we are going to, to ensure a safe operating environment, transporting environment etc. I am hoping that once people understand that, it will be a relatively straight forward exercise.”*

And that is Tectonics Resources Managing Director Jason Stirbinskis.

The company is holding a number of community consultation meetings both in Ravensthorpe and Hopetoun on the 19th July and on the 20<sup>th</sup> July in Esperance.

### **Esperance Express**

**6 July 2011**

*(See over)*

## PLANS TO BE DISCUSSED AT PUBLIC MEETING

# Billion dollar mine



By **LAUREN VARDY**  
lauren.vardy@  
ruralpress.com

WESTERN Australian-based mining company Tectonic Resources' managing director, Jason Stirbinskis, would like the community to hear about plans for the Phillips River Project when he visits Esperance on Wednesday, July 20.

Tectonic Resources has been focused on developing its flagship \$1 billion Phillips River Project - located between Hopetoun and Ravensthorpe - which will include a mine and process facility producing silver, gold and concentrates to be exported by Esperance Ports Sea and Land over a 10 year period.

Mr Stirbinskis said the proposed project is to commence with an open pit mine at Trilogy - a series of poly-metallic (lead, zinc, copper, gold) anomalies at Phillips River - to be followed by mining at Kundip, 10km away.

Eighty per cent of the revenue from the project will arise from Tectonic's two main exports, gold and copper, with about nine per cent from silver, and the remainder (11 per cent) from the lead and zinc metals combined.

Mr Stirbinskis said a milestone for Tectonic had been in 2006, where the Environment Protection Authority (EPA) had given their approval on what the company was producing.

"We acknowledge, however, that we have substantially

changed the plans to bigger and more significant operations," Mr Stirbinskis said.

He said that change was an instigator to hold the community forum, allowing the public to question and submit feedback on the proposed work before it is resubmitted to the EPA.

What Mr Stirbinskis wanted to make clear were the facts on the minor percentage of lead sulphide that would be shipped through the Esperance port.

"Clear and simple," he said, "what Tectonic hopes to ship through the port in 2013 is not the same product Magellan brought through in 2007, which was lead carbonate.

"The sulphide is currently shipped through hundreds of ports around the world on bulk conveyers.

"Tectonic are taking it one step further. This is not a process we will use in Esperance. I fully understand that we have to go beyond normal practice for this town."

Mr Stirbinskis said lead sulphide is stable, practically insoluble and has a very low bio-availability, which is the degree to which a substance can be absorbed through the body.

Lead carbonate, the lead product previously shipped through Esperance has what is deemed 'high' bioavailability.

"It is a fundamentally different substance, and is virtually insoluble," Mr Stirbinskis said.

"Both contain lead, but that is where the comparison ends."

Mr Stirbinskis outlined the



TECTONIC Resources managing director, Jason Stirbinskis, will visit Esperance to discuss plans for the Phillips River Project on Wednesday, July 20.

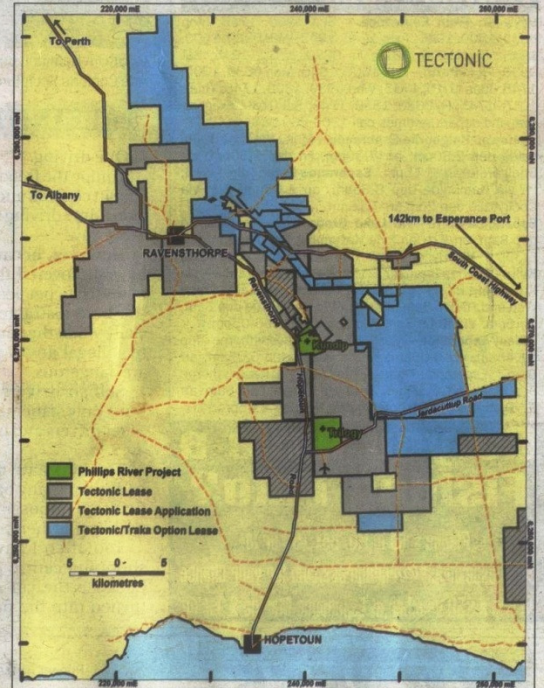
transportation method with which a concentrate like lead sulphide would be shipped.

"Both concentrates will be double-bagged and containerised prior to transport - world's best practice, above and beyond regulatory requirements."

The containers would be locked, placed onto a truck and taken to the facility at the port, whereupon they would be loaded onto the ship.

"We acknowledge that the Esperance community was rightfully upset with what has happened previously in their town. If we want our social licence to operate, Tectonic will go all out to protect the port and community.

"I understand people's first reaction to hearing about lead in the community, but we hope that



TECTONIC Resource's proposed Phillips River Project - located between Hopetoun and Ravensthorpe - will include a mine and process facility producing silver, gold and concentrates to be exported through the Esperance port.

by opening up to the Esperance community these facts and opportunity to discuss them with us, people will come to the right conclusion."

The Esperance public are

encouraged to meet with and discuss the Phillips River Project with Jason Stirbinskis and Tectonic at the Esperance Civic Centre on Wednesday, July 20 at 4.30pm.

Esperance Express  
6 July 2011  
(See over)



# Wind to power mine

By Lauren Vardy

TECTONIC Resources is set to make use of wind power as part of their Phillips River Project, a concept that will be discussed as part of the upcoming community forum on Wednesday, July 20.

Tectonic Resources managing director, Jason Stirbinskis said the company has spent three years and \$300,000 on research into the viability of becoming wind powered.

"Tectonic has had a wind turbine tower on site for the past three years, which has been collecting data.

"That data has demonstrated its viability."

The findings, according to Tectonic, suggest that the

company could potentially be the first substantially wind-powered mine in the world, with the opportunity to avoid burning three million litres of diesel per year, setting a new standard as they enter an era of carbon reduction policy.

Mr Stirbinskis said Tectonic is currently looking at ways to make this happen.

"It is the capital cost, and not the operating cost that is a financial setback with wind power," he said.

"We would love to see Tectonic used as a case study, and a pilot of how a mine can actually be 'green'."

Tectonic Resources has been active in the Ravensthorpe/Hopetoun region for around 10 years.



THE prospect for Tectonic Resources to become the first substantially wind-powered mine is a viable one, according to managing director Jason Stirbinskis. Tectonic has put three years of research into such a possibility.

## Kalgoorlie Miner

7 July 2011

### Tectonic set to conduct forums

RAVENSTHORPE mine developer Tectonic Resources is holding public forums to explain the plans for its flagship Phillips River Project between Hopetoun and Ravensthorpe, 180km west of Esperance. The proposed \$1 billion project will include a mine and processing facility producing silver, gold and concentrates to be exported via Esperance Port. Residents are invited to hear from Tectonic managing director Jason Stirbinskis about the plans, including environmental management, transport, employment and business opportunities.

#### Details:

- July 19, Ravensthorpe/Jerdacuttup: Ravensthorpe Entertainment Complex – 5pm.
- July 19, Hopetoun: Hopetoun Town Hall – 7pm.
- July 20, Esperance: Esperance Civic Centre – 4.30pm.

For more information contact Caroline Thomson on 0410 479 489 or email [caroline.thomson@tectonic.com.au](mailto:caroline.thomson@tectonic.com.au)

## ABC South Coast WA

20 July 2011

### Tectonic to hold Ravensthorpe mining talks

Tectonic Resources, which owns gold and copper deposits in Ravensthorpe, is holding a series of community forums about plans for a mine in the area.

The WA-based mining company, which owns the decommissioned RAV 8 nickel mine, has recently completed a definitive feasibility study on three deposits at its Phillips River site. It would become the third mine in the Ravensthorpe area, with a lithium mine already operating and a nickel mine opening soon.

Residents and business owners in Ravensthorpe and Hopetoun spoke to Tectonic's managing director, Jason Stirbinskis, at meeting yesterday afternoon.

Mr Stirbinskis will speak at the Esperance Civic Centre later today.

**Esperance Express**  
**20 July 2011**

## Tectonic community forum today

TECTONIC Resources managing director Jason Stirbinskis will address the Esperance public this afternoon at a community forum about plans for the Phillips River Project near Ravensthorpe.

The company plans to ship a minor amount of lead sulphide through the Esperance Port, and Mr Stirbinskis said he wanted to make some

facts clear about the shipment.

"What Tectonic hopes to ship through the port in 2013 is not the same product Magellan brought through in 2007, which was lead carbonate," Mr Stirbinskis said.

"The sulphide is currently shipped through hundreds of ports around the world on bulk conveyers.

"Tectonic are tak-

ing it one step further. This is not a process we will use in Esperance. I fully understand that we have to go beyond normal practice for this town," he said.

Mr Stirbinskis said he acknowledged that the Esperance community was upset with what had happened previously in the town.

"If we want our social licence to oper-

ate, Tectonic will go all out to protect the port and community," Mr Stirbinskis said.

"I understand people's first reaction to hearing about lead in the community, but we hope that by opening up to the Esperance community these facts and opportunity to discuss them with us, people will come to the right conclusion."

The Esperance public is encouraged to meet with and discuss the Phillips River Project with Jason Stirbinskis and Tectonic at the Esperance Civic Centre today at 4.30pm.



**ABC South Coast and Great Southern**  
**20 July 2011**

Phillips River is a company established and ASX listed to focus on extracting value from its flagship. What's its flagship? Well its flagship is called the Phillips River Project. Where is the Phillips River Project? Over near Ravensthorpe. And there's been a number of community consultation meetings held in Ravensthorpe and Hopetoun yesterday.

Jason Stirbinskis is the Managing Director of Phillips River and he is on the line. Jason - good morning to you.

*Good morning, how are you?*

Thank you for joining us. Also on the line is Ian Goldfinch, the President of the Ravensthorpe Shire.

*Good morning John.*

First to you Jason. Perhaps you can tell about yesterday's meeting and what you were seeking to achieve at Ravensthorpe and Hopetoun.

*Sure. We had an incredible turn out. You know, we were expecting around 20 or 30 people at each and we had 47 turn up at Ravensthorpe and 60 at Hopetoun, and so we were very pleased with the outcome. The main reason for the community forum was to brief the communities on how we're progressing and what our plans are going forward for Phillips River. By way of background, Phillips River is a poly-metallic mining program and processing facility.*

Hang on, hang on – poly-metallic?

*(Laughs) I was about to explain that: Poly-metallic means we're mining copper, gold, silver, lead and zinc.*

Anything you can find.

*Pretty much - 'many metals' and producing three products: gold bar, a copper concentrate and a base metal concentrate.*

So the mine life has a ten year span?

*That's right, and over that 10 years the project will generate about a billion dollars.*

And are you proposing to just remove the ore for smelting elsewhere or will you process it on site?

*It's a bit of both. The gold we will produce on site – we will produce an unrefined gold bar on site and then that will be flown to the Perth Mint to be turned into bullion. The other two products we produce a concentrate through metallurgical processes, and then that will be shipped to China where it will be smeltered in China.*

And presumably shipped through Esperance?

*That's the intention.*

Right. Esperance has had a bit of a rocky history with shipping metals. How are you dealing with that?

*We're meeting with the Esperance community tomorrow night, but just to put things into context, the amount of material we're talking about is quite small – it's roughly two trucks a day going into Esperance and the material we're shipping is put into double-sealed bags and those bags are put into sealed containers at our mine site and those containers are never opened. So they go through the whole process from the mine site to China without being opened, so we're basically using a Rolls Royce method for transporting these concentrates through Esperance.*

And what are the concentrates?

*Well 2/3<sup>rd</sup>s of it or 200,000t over the entire life of mine is a copper concentrate and that's a fairly generic substance, you know, it's shipped through many, many ports all over the place. The other one, the smaller amount is called a base metal concentrate and that contains zinc sulphide and lead sulphide concentrates. About 25% of that smaller component is lead as lead sulphide.*



Ian Goldfinch to you, as President of the Shire, what response did you take from last night's meeting?

*Well I think it was – you can take the response from the people that were there and the questions coming forward, and the questions were all very positive. As far as the lead goes, it's probably the most inert type of lead concentrate, so we felt, and the people in their questions felt that the lead thing was covered. We just feel that we're on the last leg of the three mines and the night was a positive night for those that were there.*

There would have been questions about employment numbers, Jason Stirbinskis, what numbers do you think would be employed on the mine?

*During construction we need about 80 people on site and when we go into production in 2013, being the target, it's about 80 people as well – obviously different skill sets compared to what we will be using during construction, but it's about 80 people. And just to remind people, we actually have a camp in Ravensthorpe that can accommodate 88, so we're quite comfortable in terms of our accommodation needs.*

So when you do that, will those people be living and be part of the community or will they fly in fly out?

*We're going to work hard to get that balance right. You know, we obviously have a preference for employing locals where we can – they stay around for longer and it helps the local community and all of those sorts of things – but we're also aware that you can't come into a town and just take every employee from everybody else and mess up other people's businesses, so we'll work very hard to get that balance between fly in fly out, new residential and existing locals.*

Ian Goldfinch, the Shire President always has an eye on the social dividend, on the benefits. What for you, what are the benefits? What extra things will you garner to your community?

*We would hope that as all these mines become profitable that there is a spin-off for the Shire to increase services to our ratepayers. But I think also as a council of ex-farmers and things, have to realise that until they start making money you can't start bleeding them or they don't get started. So we definitely hope that as they get going that there will be a dividend to offset a lot of the stuff that – what we're finding is that there's just a lot more wear and tear of the things that, of the services that we produce, so we'd be looking at the mines to help us maintain our services and keep the wear and tear virtually down to zero.*

Is that something you're comfortable with Jason Stirbinskis.

*Yes, I've spoken to Ian a couple of times on this subject and yes, once we're in production and generating revenue then we're more than happy to contribute our part to local services etcetera.*

And finally, with a mine life of 10 years at the end of the 10 years what happens, is there an ugly hole in the ground or is there repatriation?

*Well as the Managing Director I hope there's far more than 10 years. We're actively exploring in the area so I'm hoping to see more production come from other discoveries in the area. But in terms of the other part of your question about rehabilitation – we've dedicated the last 3 or 4 years doing lots of environmental surveys in the area and we've engaged outback ecology which world leaders in this field.*

That's great news to you both thank you for joining us, it's time for the news.