

Report and recommendations of the Environmental Protection Authority



Borrow Pits in Millstream Chichester National Park

Robe River Mining Co Pty Ltd

Report 1451

October 2012

Assessment on Proponent Information Environmental Impact Assessment Process Timelines

Date	Progress stages	Time (weeks)
13/08/12	Level of assessment set	
12/09/12	Proponent's Final API document received by EPA	4.5
29/10/12	Publication of EPA report (3 days after report to Minister)	
12/11/12	Close of appeals period	

Timelines for an assessment may vary according to the complexity of the project and are usually agreed with the proponent soon after the level of assessment is determined.

In this case, the Environmental Protection Authority met its timeline objective in the completion of the assessment and provision of a report to the Minister.

Dr Paul Vogel Chairman

24 October 2012

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Recommended Environmental Conditions

1. Introduction and background

This report provides the Environmental Protection Authority's (EPA's) advice and recommendations to the Minister for Environment on the proposal by Robe River Mining Co Pty Ltd to develop seven borrow pits within Millstream Chichester National Park (MCNP).

Section 44 of the *Environmental Protection Act 1986* (EP Act) requires the EPA to report to the Minister for Environment on the outcome of its assessment of a proposal. The report must set out:

- the key environmental factors identified in the course of the assessment; and
- the EPA's recommendations as to whether or not the proposal may be implemented, and, if the EPA recommends that implementation be allowed, the conditions and procedures to which implementation should be subject.

The EPA may include in the report any other advice and recommendations as it sees fit.

The proponent has submitted an Assessment on Proponent Information (API) document setting out the details of the proposal, potential environmental impacts and proposed commitments to manage those impacts.

The EPA considers that the proposal, as described, can be managed to meet the EPA's environmental objectives, subject to the EPA's recommended conditions being made legally binding.

This report provides the EPA advice and recommendations in accordance with Section 44 of the EP Act.

2. The proposal

The proponent requires borrow material for the construction and operation of the duplication of its Cape Lambert to Emu Siding railway, as well as maintenance of existing operations and construction and operation of future rail projects. The proposal is for seven borrow pits in the Millstream Chichester National Park (MCNP) where up to 118 hectares (ha) will be disturbed, of which 90 ha is within the national park and the remainder in the excised rail corridor (Figure 4, Appendix 2 Schedule 1). All borrow pits within the MCNP are within existing Rio Tinto Iron Ore licence areas granted under the *Mining Act 1978* (Robe River Mining Company is a subsidiary of Rio Tinto) and all borrow material will only be used for projects or portions of projects that are within the MCNP.

The Cape Lambert to Emu Siding Rail Duplication was approved by the Minister for Environment in late 2011 (Ministerial Statement 880, EPA Report 1408). The proposed borrow pits were a component of that referral, but were removed during the assessment process. To assist with compliance, it is the intention that a revised Ministerial Statement would be issued, combining the elements of both proposals and revoking Ministerial Statement 880. The conditions and proposal description in Appendix 2 incorporate both projects.

The main characteristics of the proposal are summarised in the table below.

Table 1. Summary of key proposal characteristics¹

Element	Description	
Project life	Up to 5 years	
Total borrow material	560 000 m ³	
Area of ground	Up to 118.18 ha of which 90.25 ha is within MCNP	
disturbance		
Water demand	300 000 kL for dust suppression and operational use	
Water supply	Sourced from the Water Corporation's West Pilbara Water Supply Scheme, with bores as potential contingency	
Ancillary infrastructure	 Access track network to enable transport of borrow material to required area Inspection and wash down areas for weed hygiene Drainage structures to manage surface water near borrow pits Crushing plant 	

¹ For the borrow pit proposal only. Schedule 1 of the conditions incorporates both projects

The potential impacts of the proposal are discussed by the proponent in the referral document (Strategen, 2012).

3. Consultation

During the preparation of the API, the proponent consulted with government agencies and key stakeholders. The agencies, groups and organisations consulted, the comments received and the proponent's response are detailed in the proponent's referral document (Strategen, 2012).

The main issues raised were:

- visual amenity of MCNP;
- justification for extracting borrow from a national park; and
- spread of weeds.

In response, the proponent has:

- reduced the number of proposed borrow pits, with most of the borrow pits located between the existing rail line and the road corridor;
- provided justification that the location of borrow pits in close proximity to the works reduced excessive haulage requirement and associated potential safety implications particularly within MCNP; and
- identified and recorded existing weeds and will address weeds specific to individual borrow pits in the Borrow Pit Management Plan.

The EPA considers that the consultation process has been appropriate and that reasonable steps have been taken to inform the community and stakeholders on the proposed development.

4. Key environmental factors

It is the EPA's opinion that the following key environmental factors relevant to the proposal require evaluation in this report:

- (a) Vegetation, flora and fauna; and
- (b) Visual amenity.

The key environmental factors are discussed in Sections 4.1 - 4.2. The description of each factor shows why it is relevant to the proposal and how it will be affected by the proposal. The assessment of each factor is where the EPA decides whether or not a proposal meets the environmental objective set for that factor.

4.1 Vegetation, flora and fauna

Description

The proponent proposes to clear approximately 105 ha as 13 ha of the proposal footprint have been previously disturbed. Of the total footprint, approximately 90 ha are within the MCNP and vegetation condition is ranked as excellent to very good in most areas, with creeklines having good to poor vegetation condition due to weed infestation. Approximately 4 ha within MCNP are considered completely degraded. The remaining 28 ha are excised from the MCNP but are either in a very good to good or completely degraded condition.

Surveys determined nine vegetation types in the proposal area, none of which are listed as Threatened or Priority Ecological Communities. Four vegetation types mainly associated with the Harding River channels and tributaries are considered less widely represented and of high conservation significance. Approximately one hectare of these four vegetation types will be cleared by the proposal. Overall, all vegetation types are widely represented within the Chichester sub-region, including other parts of Millstream Chichester National Park. Surveys did not find any Declared Rare Flora species or any Priority Flora.

Seventeen species of weed were recorded in flora surveys with all potential borrow pit sites recording some level of weed infestation and all recording weeds listed as a high priority for management as per the Millstream Chichester National Park Management Plan (DEC, 2011). The proponent's referral document (Strategen, 2012) details how the proponent will manage weeds.

Fauna surveys carried out by the proponent did not record any threatened species, however two Priority 4 species were found in the area; the star finch and an inactive mound of the western pebble mound mouse. Of those conservation significant species likely to occur in the area due to suitable habitat (but not found during surveys), all are migratory birds with the exception of the northern quoll. However potential breeding habitat for the northern quoll was not present in the area and potential foraging habitat is excluded from the proposal.

Assessment

The EPA's environmental objective for this factor is to maintain the abundance, species diversity, geographic distribution and productivity of flora and fauna at species and ecosystems levels through the avoidance or management of adverse impacts and improvement in knowledge.

The EPA notes the MCNP Management Plan states that the preference is for basic raw materials to be obtained from lands not managed by the DEC. However, the management plan also states that where a more environmentally acceptable alternative is not available and where the material is used within the boundaries or enclaves of the planning area then extraction can be considered. The EPA acknowledges that the proposed borrow pits are within an area of the park already utilised by industry as it is immediately adjacent to the Cape Lambert to Emu Siding railway (and its approved duplication). The railway precedes the establishment of MCNP and is contained within an existing rail development corridor. In addition, the borrow pits are located within Miscellaneous Leases granted under the *Mining Act* 1978 and consultation on environmental matters occurred prior to the granting of these leases.

Borrow pit selection considered a range of factors, including completed biological surveys, known heritage sites, tenure, previous disturbance, proximity to public roads and the rail corridor, and weeds. During the process of pit selection, the proponent has refined both individual pit areas and locations to minimise the impact on biodiversity values and Aboriginal heritage, and to avoid drainage lines and impacts on riparian vegetation, and visual amenity. The proponent has also

minimised the number of pits east of the Karratha Tom Price Road and most pits are now located between the road and railway.

The EPA concludes that vegetation communities within the proposal area are widespread at the local and sub-regional scale and, while a small area of riparian vegetation will be lost due to the proposal, there is not expected to be any significant impact on the local or regional distribution of vegetation communities. The project is also not expected to result in a significant impact to any Declared Rare Flora. The EPA also concludes that there is a minimal risk to fauna from the proposal.

The EPA notes the proponent's commitment to rehabilitate all borrow pit areas to meet DEC and the MCNP Management Plan requirements and to rehabilitate pits progressively once the borrow material has been exhausted. The EPA has therefore recommended Condition 6 to ensure that rehabilitation is appropriately undertaken.

The EPA believes the most potentially significant issue for the proposal is the spread of weeds. Weeds affect the ecosystem by direct competition with native flora and vegetation and a reduction in the value of fauna habitat. Weeds are a serious threat to the biodiversity of MCNP and the introduction or spread of weed species can occur by vehicle, earth and human movements; and through drainage channels.

The location of the proposed borrow pits, close to the existing rail line and arterial road, has resulted in all borrow pits having some level of weed infestation and weed cover ranges from 15 to 77 per cent. Given the weed cover and the species being identified as a high priority for management, the EPA recognises that successful weed management is fundamental to minimising the proposal's impacts to the values of MCNP.

In finalising both Report 1408 Cape Lambert to Emu Siding Rail Duplication and this report, the DEC has advised the EPA that RTIO's previous weed management along the existing rail line has not been effective in controlling weed species at a level that provides adequate protection for the biodiversity values of MCNP. The EPA has therefore recommended strengthened conditions 5-1 to 5-7 to ensure that weeds are appropriately surveyed and managed during this proposal.

The EPA notes that the proponent has prepared an offset package to address the residual impacts of the proposal relating to the clearing of good-to-excellent condition native vegetation both within and adjacent to the MCNP. The funds will be contributed to the DEC for use within the MCNP and surrounding areas under DEC management in the Pilbara, specifically for feral herbivore management and fire management. The funds were calculated at a rate commensurate with the Cape Lambert to Emu Siding Rail Duplication proposal for temporary clearing within MCNP, and commensurate with other proposals in the Pilbara region for areas cleared outside national parks

The EPA has therefore recommended Condition 7 to ensure that the agreed residual impact package is implemented by the proponent in consultation with relevant stakeholders and decision making authorities.

Summary

Having particular regard to the:

- regional distribution of the vegetation types within the project area;
- proponent's proposed management actions; and
- the residual impact package,

it is the EPA's opinion that the proposal can be managed to meet the EPA's environmental objective for this factor provided that the EPA's recommended conditions 5, 6 and 7 in relation to control of weeds, rehabilitation of cleared areas and residual impacts are implemented.

4.2 Visual amenity

Description

The proposal is located adjacent to the main arterial road between Karratha and Tom Price and has the potential to affect visual amenity of the MCNP. The proponent commissioned a visual impact study for the proposal with impact assessed on the basis of the character of the landscape and the potential for the borrow pits to be seen by sensitive receptors. The proponent also completed a view-shed and photograph montage analysis to determine the visual impact of each of the seven proposed borrow pits on the view from the Karratha Tom Price Road, which was defined as the main viewing point (Ecoscape, 2012).

The visual impact study defined three landscape types within the proposal area; rugged ranges, undulating plain and flat plain. Each borrow pit was then assessed as to whether it was evident from the main road, blended in with the surrounding landscape or was prominent. Of the seven borrow pits, pit 70 was not evident and pits 70.6, 78, 84 and 81.5 blended with the surrounding landscape (Figure 4, Appendix 2 Schedule 1). Only two pits were considered to have a prominent impact on visual amenity, pits 74 and 78.2. To mitigate and manage the impacts to visual amenity, the proponent modified these pits by reducing the pit extent and redesigning them to reduce visibility on the horizon/ridge lines.

Assessment

The EPA's environmental objective for this factor is to ensure that aesthetic values are considered and measures are adopted so that visual impacts on the landscape are as low as reasonably practicable.

The EPA recognises that while the borrow pits are within a national park, they are also in close proximity to an already visually disturbed area (the railway) and that the impacts to visual amenity are temporary in nature, noting the need to ensure successful rehabilitation. To minimise the impacts of the proposal, the proponent has also committed to ensuring that those pits with a greater potential negative impact will be utilised for a shorter period of time.

The EPA also recognises that the rehabilitation of the borrow pits will be guided by landform design guidelines to ensure landform stability and adequate drainage and that rehabilitated pits blend with the natural surrounds.

Summary

Having particular regard to the:

- existing visual disturbance within the area; and
- temporary nature of the impacts,

it is the EPA's opinion that the proposal can be managed to meet the EPA's environmental objective for this factor.

5. Recommended conditions

Having considered the information provided in this report, the EPA has developed a set of conditions that the EPA recommends be imposed if the proposal by Robe River Mining Co Pty Ltd to develop seven borrow pits in the MCNP is approved for implementation.

To assist with compliance, the conditions presented in Appendix 2 include those applied to the Cape Lambert to Emu Siding Rail Duplication (Ministerial Statement 880) and those conditions recommended as part of this assessment. It is proposed that Ministerial Statement 880 will be revoked.

6. Other advice

Extraction of borrow material from national parks

In considering this assessment, the EPA has concluded that, in principle, borrow material should be sourced from outside conservation reserves. The EPA emphasised that while for this proposal it has concluded that the proposal is environmentally acceptable, this should not be viewed as a precedent for future proposals. Should any new proposals for sourcing borrow material within conservation reserves be submitted to the EPA, they will need to contain a thorough exploration of other options and strong justification as to why other alternatives are not suitable.

7. Conclusions

The EPA has considered the proposal by Robe River Mining Co Pty Ltd to develop seven borrow pits in the MCNP.

The EPA notes that:

- flora and vegetation within the project area is widespread and that no significant impact on the local or regional distribution of vegetation communities is expected;
- no significant impact to any Declared Rare Flora is expected;
- there is a minimal risk to fauna;
- the proposal area is already visually disturbed and the impacts to visual amenity are temporary;
- the proponent has committed to undertake weed management and rehabilitation of the borrow pits; and
- the proponent has proposed residual impact risk management measures.

The EPA has therefore concluded that the proposal can be managed to meet the EPA's environmental objectives, provided there is satisfactory implementation by the proponent of the recommended conditions set out in Appendix 2.

8. Recommendations

The EPA submits the following recommendations to the Minister for Environment:

- 1. That the Minister notes that the proposal being assessed is for the development of seven borrow pits within the MCNP;
- 2. That the Minister considers the report on the key environmental factors as set out in Section 3;
- 3. That the Minister notes that the EPA has concluded that the proposal can be managed to meet the EPA's environmental objectives, provided there is satisfactory implementation by the proponent of the recommended conditions set out in Appendix 2; and
- 4. That the Minister imposes the conditions and procedures recommended in Appendix 2 of this report; noting that the conditions include those from Ministerial Statement 880.

Appendix 1

References

Department of Environment and Conservation (DEC) (2011) *Millstream-Chichester National Park and Mungaroona Range Nature Reserve –Management Plan No.69*, Department of Environment and Conservation, Traditional Owners Millstream Park Council and Conservation Commission Western Australia, Perth.

Ecoscape (2012) Stage 1 Strategic Borrow Pit Visual Impact Assessment. Ecoscape, Perth.

EPA (2011) Emu Siding to Cape Lambert Rail Duplication – Report and Recommendations of the Environmental Protection Authority. Report 1408, Environmental Protection Authority, Perth.

Strategen (2012) Stage One of the Borrow Pit Project in Millstream Chichester National Park, Assessment on Proponent Information Environmental Impact Assessment Document. Rio Tinto Iron Ore, Perth.

Appendix 2

Identified Decision-making Authorities and Recommended Environmental Conditions

Identified Decision-making Authorities

Section 44(2) of the *Environmental Protection Act 1986* (EP Act) specifies that the EPA's report must set out (if it recommends that implementation be allowed) the conditions and procedures, if any, to which implementation should be subject. This Appendix contains the EPA's recommended conditions and procedures.

Section 45(1) requires the Minister for Environment to consult with decision-making authorities, and if possible, agree on whether or not the proposal may be implemented, and if so, to what conditions and procedures, if any, that implementation should be subject.

The following decision-making authorities have been identified for this consultation:

Decision-making Authority	Approval
Minister for Mines and	Mining Act 1978
Petroleum	
2. Minister for Indigenous Affairs	Aboriginal Heritage Act 1972 – s18 approval
3. Minister for Water	Right in Water Irrigation Act 1914 – water
	extraction licence
4. Minister for Lands	Land Administration Act 1997
5. Minister for State Development	Iron Ore (Hamersley Range) Agreement Act 1963
	Iron Ore (Robe River) Agreement Act 1964
6. Shire of Ashburton	Planning approval
7. Shire of Roebourne	Planning approval
8. Department of Environment	Environmental Protection Act 1986
and Conservation	
9. Department of Mines and	Mining Act 1978
Petroleum	

Note: In this instance, agreement is only required with Decision-making Authorities (DMAs) #1-5 since these DMAs are Ministers.

Recommended Environmental Conditions

RECOMMENDED ENVIRONMENTAL CONDITIONS

STATEMENT THAT A PROPOSAL MAY BE IMPLEMENTED (PURSUANT TO THE PROVISIONS OF THE ENVIRONMENTAL PROTECTION ACT 1986)

Cape Lambert to Emu Siding Rail Duplication and Borrow Pits in Millstream Chichester National Park

Proposal: The proposal includes the approved rail line and eastern

deviation and associated infrastructure adjacent to the existing rail line from Cape Lambert to Emu Siding. The seven borrow pits within Millstream Chichester National Park are for use in the construction and maintenance of rail lines and associated infrastructure located within Millstream

Chichester National Park.

Proponents: Robe River Mining Co Pty Ltd

Australian Company Number: 008 694 246

Proponent Address: 152-158 St George's Terrace,

PERTH WA 6000

Assessment Number: 1937

Related Assessment Number: 1892

Report of the Environmental Protection Authority Number: 1451 Related Report of the Environmental Protection Authority: 1408

Related Statement Number: 880 (dated 18 November 2011)

The implementation conditions of this Statement supersede the implementation conditions of Statement 880. This Statement authorises the implementation of the Proposal described and documented in Columns 1 and 2 of Table 2 of Schedule 1. The implementation of the Proposal is subject to the following implementation conditions and procedures and Schedule 1 details definitions of terms and phrases used in the implementation conditions and procedures.

[Note: Terms and phrases used in these implementation conditions shall have the same respective meanings as in the *Environmental Protection Act 1986* or as provided for in Schedule 1.]

1 Proposal Implementation

1-1 When implementing the proposal, the proponent shall not exceed the authorised extent of the proposal as defined in Column 3 of Table 2 in Schedule 1, unless amendments to the proposal and the authorised extent of the Proposal has been approved under the EP Act.

2 Contact Details

2-1 The proponent shall notify the CEO of any change of its name, physical address or postal address for the serving of notices or other correspondence within 28 days of such change. Where the proponent is a corporation or an association of persons, whether incorporated or not, the postal address is that of the principal place of business or of the principal office in the State.

3 Time Limit for Proposal Implementation

- 3-1 The proponent shall not commence implementation of the proposal after the expiration of five years from the date of this statement, and any commencement, within this five year period, must be substantial.
- 3-2 Any commencement of implementation of the proposal, within five years from the date of this statement, must be demonstrated as substantial by providing the CEO with written evidence, on or before the expiration of five years from the date of this statement.

4 Compliance Reporting

- 4-1 At least six calendar months prior to the first Compliance Assessment Report required pursuant to Condition 4-6 or prior to implementation of the proposal, whichever is sooner, the proponent shall:
 - (1) prepare a Compliance Assessment Plan in accordance with the OEPA's Post Assessment Guideline for Preparing a Compliance Assessment Plan, as amended from time to time and to the approval of the CEO; and
 - (2) submit the Compliance Assessment Plan required pursuant to Condition 4-1(1) to the CEO.
- 4-2 The proponent shall revise the approved Compliance Assessment Plan in accordance with the OEPA's *Post Assessment Guideline for Preparing a Compliance Assessment Plan*, as amended from time to time, and submit the revised Compliance Assessment Plan to the approval of the CEO.
- 4-3 The proponent shall assess compliance in accordance with the approved Compliance Assessment Plan.
- 4-4 The proponent shall collect and maintain information and documentation in accordance with the approved Compliance Assessment Plan.
- 4-5 The proponent shall advise the CEO of any non-compliance or potential non-compliance within seven days of such awareness.
- 4-6 The proponent shall prepare a Statement of Compliance for each consecutive 12 month period commencing on the date of the Statement and submit each Statement of Compliance to the CEO no later than three months following the end of each 12 month period it addresses.
- 4-7 The proponent shall ensure that each Statement of Compliance is made available to the public in accordance with the approved Compliance Assessment Plan and within 28 days of its submission pursuant to Condition 4-6.

5 Weeds

- 5-1 For the Rail Duplication Area, the proponent shall ensure that:
 - (1) No new species of declared weeds and environmental weeds are introduced into the Rail Duplication Area within the Millstream-Chichester National Park or other area of remnant vegetation as a result of implementation of the proposal, and that the abundance and distribution of existing weeds is not increased as a direct or indirect result of implementation of the proposal.
 - (2) Prior to ground disturbing activities the proponent shall undertake a baseline weed survey to determine the species and extent of declared weeds and environmental weeds present at weed monitoring sites within 50 metres of areas disturbed by the proposal.
 - (3) Within 12 months of approval, the proponent shall undertake a baseline survey at regular distances along transects from the disturbance footprint, including reference sites on undisturbed land at least 200 m from the disturbance footprint. These transects are to be distributed along the length of the rail line at intervals no greater than 5 km and at locations agreed by the Department of Environment and Conservation for sites within the Millstream Chichester National Park.
 - (4) Baseline and reference weed monitoring sites surveyed as required by condition 5-1(2) and 5-1(3) are to be monitored annually for 2 years following the completion of construction, and every 2 years for the life of the proposal to determine whether changes in weed cover and type within 50 m of the disturbance footprint have occurred and are likely to have resulted from implementation of the proposal or broader regional changes.
 - (5) If the results of monitoring under condition 5-1(4) indicate that adverse changes in weed cover and type within 50 m of the disturbance footprint are occurring, the proponent shall report the monitoring findings to the CEO within 3 months of completion of the monitoring.
 - (6) If the adverse changes in weed cover reported under condition 5-1(5) are determined to be proposal attributable by the CEO the proponent shall immediately undertake weed control and rehabilitation in the affected areas, where Proposal attributable weed cover has adversely changed, using native flora species of local provenance.
 - (7) The proponent shall continue to implement the remedial measures required by condition 5-1(5) until approval is given by the CEO to cease.
- 5-2 In the Borrow Pit Areas, the proponent shall:
 - (1) Prevent the establishment of any new species of weeds in the Borrow Pit Areas, or outside the Borrow Pit Areas and attributable to implementation of the Proposal.
 - (2) Ensure there is no increase in weed cover, extent and the invasive characteristics of weeds in the Proposal Area.

- (3) Prior to ground-disturbing activities in the Borrow Pit Areas, undertake and submit a Borrow Pit Area baseline weed survey to identify the presence, extent, species diversity and invasive characteristics of weeds and weed cover, to the satisfaction of the CEO on advice of the DEC.
- (4) The proponent shall repeat the surveys undertaken pursuant to Condition 5-2(3) following the commencement of ground disturbance activities in the Borrow Pit Areas annually or at a frequency agreed by the CEO on advice of the DEC.
- (5) Where the results of monitoring undertaken pursuant to Condition 5-3(4) indicate adverse changes in the presence, extent, species diversity and invasive characteristics of weeds and weed cover, the proponent shall:
 - (a) immediately implement, or propose appropriately timed weed control measures in affected areas to the satisfaction of the CEO in consultation with the DEC, where these areas are within Millstream Chichester National Park;
 - (b) submit details of weed control measures that have or will be implemented pursuant to Condition 5-2(5)(a) and any proposed rehabilitation measures to be implemented to the CEO and the DEC, where these areas are within Millstream Chichester National Park within 7 days of becoming aware of adverse changes; and
 - (c) implement weed control and rehabilitation measures detailed pursuant to Condition 5-2(5)(b) until such time as the CEO, on advice of the DEC where the areas are within Millstream Chichester National Park, agrees implementation may cease.

6 Rehabilitation

- 6-1 Within the Rail Duplication Area the proponent shall:
 - (1) undertake rehabilitation activities in the Rail Duplication Area to achieve a percentage cover and species diversity of living self sustaining native vegetation in all Rehabilitation Areas comparable to that of undisturbed natural analogue sites as demonstrated by a methodology acceptable the CEO; and
 - (2) commence progressive rehabilitation of all areas of the proposal within 12 months of the completion of construction.
- 6-2 Within the Borrow Pit Areas the proponent shall:
 - (1) collect baseline and analogue information on native vegetation in preparation for setting completion criteria for rehabilitation;
 - (2) undertake rehabilitation activities to achieve a percentage cover, abundance and species diversity of living self sustaining native vegetation comparable to that of undisturbed natural analogue sites as demonstrated by completion criteria approved by the CEO on advice of the DEC:

- (3) monitor the progress of rehabilitation required by Conditions 6-2(2) and 6-2(2) annually for the first 5 years and thereafter at a frequency agreed by the CEO on advice of the DEC, and implement contingency measures and supplementary rehabilitation works where the completion criteria are not being met, to the requirements of the CEO on advice of the DEC; and
- (4) commence progressive rehabilitation within 12 months of completion of construction for all areas that are not required for ongoing operation, to the satisfaction of the CEO on advice of the DEC.
- 6-3 The proponent shall include the results of the rehabilitation monitoring required pursuant to condition 6-4 in the compliance assessment report referred to in Condition 4-6 commencing from the date rehabilitation was commenced and provide these results to the DEC at the time of reporting.
- 6-4 Rehabilitation activities shall continue until such a time as the requirements of Condition 6-1 and 6-2 are met as demonstrated by inspections and reports, for a minimum of five years following the initial completion of rehabilitation activities, to the satisfaction of the CEO on advice of the DEC.

7 Residual Impact Risk Management Measures

7-1 The proponent shall undertake measures during the implementation of the proposal, in accordance with the proposal and with the agreed Residual Impact package described in the Cape Lambert to Emu Siding Rail Duplication Project Offsets Strategy (June 2011), Stage 1: Borrow Pit Project Environmental Offset Package (July 2012) and summarised in Schedule 3.

8 Decommissioning

- 8-1 At least six months prior to the anticipated date of closure, the proponent shall submit a report demonstrating how the following criteria will be met:
 - (1) removal or retention of plant and infrastructure agreed as approved by the CEO in consultation with relevant stakeholders;
 - (2) rehabilitation of all disturbed areas to a standard suitable for the new land use(s) as agreed pursuant to the consultation referred to in Condition 8-1(1) and approved by the CEO; and
 - (3) identification of contaminated areas, including provision of evidence of notification and proposed management measures to required statutory authorities.

Table 1: Summary of the Proposal

Table 1: Summary of t			
Proposal Title	Cape Lambert to Emu Siding rail duplication and		
	development of borrow pits within Millstream Chichester		
	National Park (Figure 1)		
Short Description	The proposal is to:		
•	construct and operate up to 78 km of duplicate rail line		
	and supporting infrastructure from the Cape Lambert Port		
	facilities to Emu Siding (Figure 2). Supporting		
	infrastructure includes:		
	o the eastern deviation;		
	marshalling yard and associated infrastructure adjacent		
	to Cape Lambert Port;		
	Line;		
	ballast load out facility adjacent to the existing quarry at		
	Cape Lambert;		
	o crossovers between the existing and duplicate rail line		
	at four points to facilitate movement of trains between		
	the tracks; and		
	o installation of communication cabling, asset protection		
	and signalling equipment.		
	develop seven borrow pits in Millstream Chichester		
	National Park (Figure 4) and supporting infrastructure		
	including:		
	o access track to enable transport of borrow material to		
	required area;		
	 inspection and wash down areas for weed hygiene; 		
	o drainage structure to manage surface water near		
	borrow pits; and		
	o crushing plant.		

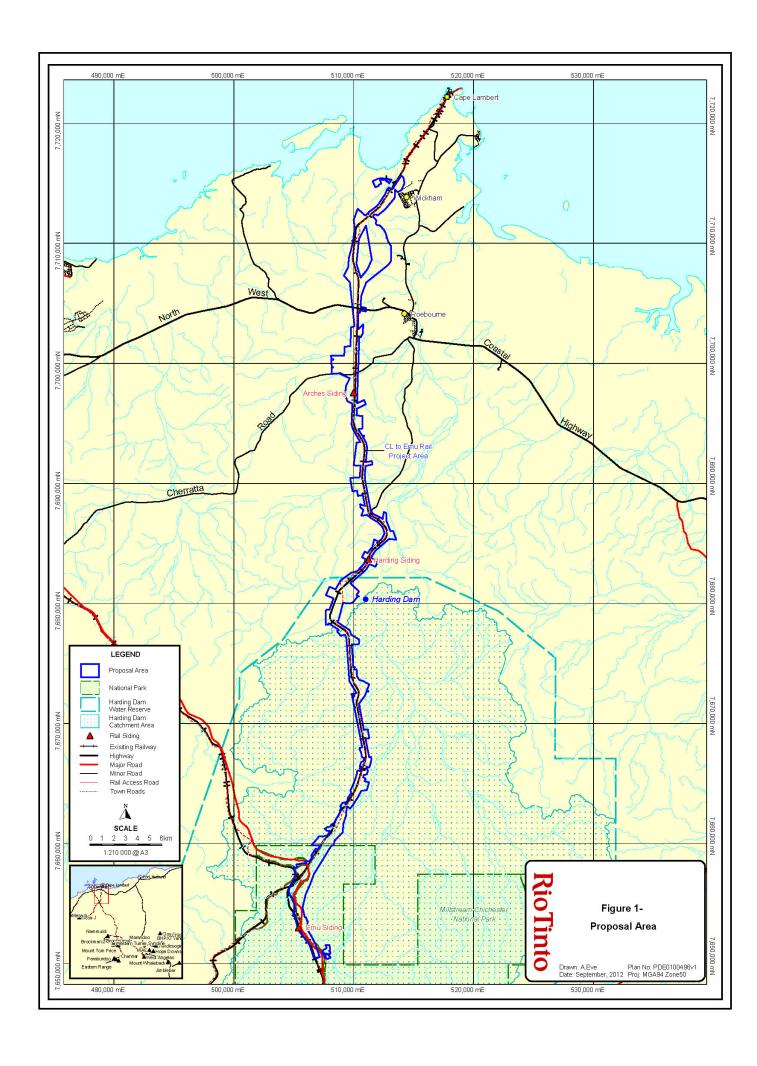
Table 2: Location and authorised extent of physical and operational elements

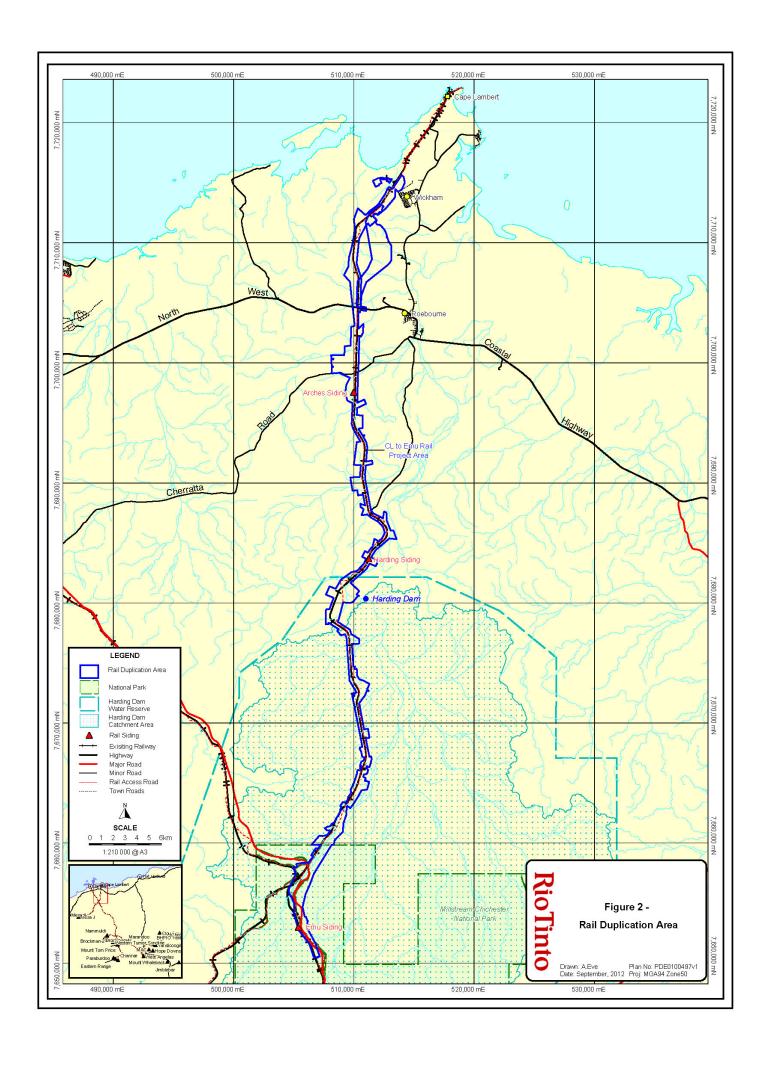
Column 1	Column 2	Column 3
Element	Location	Authorised Extent
Rail duplication	Figure 2	Length of duplicate rail line up to 78 km
	Figure 3Clearing Area AClearing Area B	Clearing up to 2145 ha within Clearing Area A in the Rail Duplication Area and outside of Millstream Chichester National Park; and 150 ha within Clearing Area B in the Rail Duplication Area and in Millstream Chichester National Park.
	Figure 2	Up to 3000 m deviation from existing rail line
	Figure 2	Replication of culverts and bridges of the existing rail line, and additional culverts as required to maintain surface water drainage patterns within the Rail Duplication Area.
	Figure 2	Excavation of up to 1 305 000 m ³ of borrow material sourced from within the Rail Duplication Area and outside Millstream Chichester National Park.
	Figure 2	Trenching of fibre optic cables to be laid in the Rail Duplication Area by a rift created by dozer tine, to be immediately backfilled.
Borrow Pit Areas in Millstream Chichester	Figure 4	Clearing up to 118.18 ha within the Borrow Pit Areas.
National Park	Figure 4	Excavation of up to 560 000 m ³ of borrow to be sourced from within the Borrow Pit Areas.

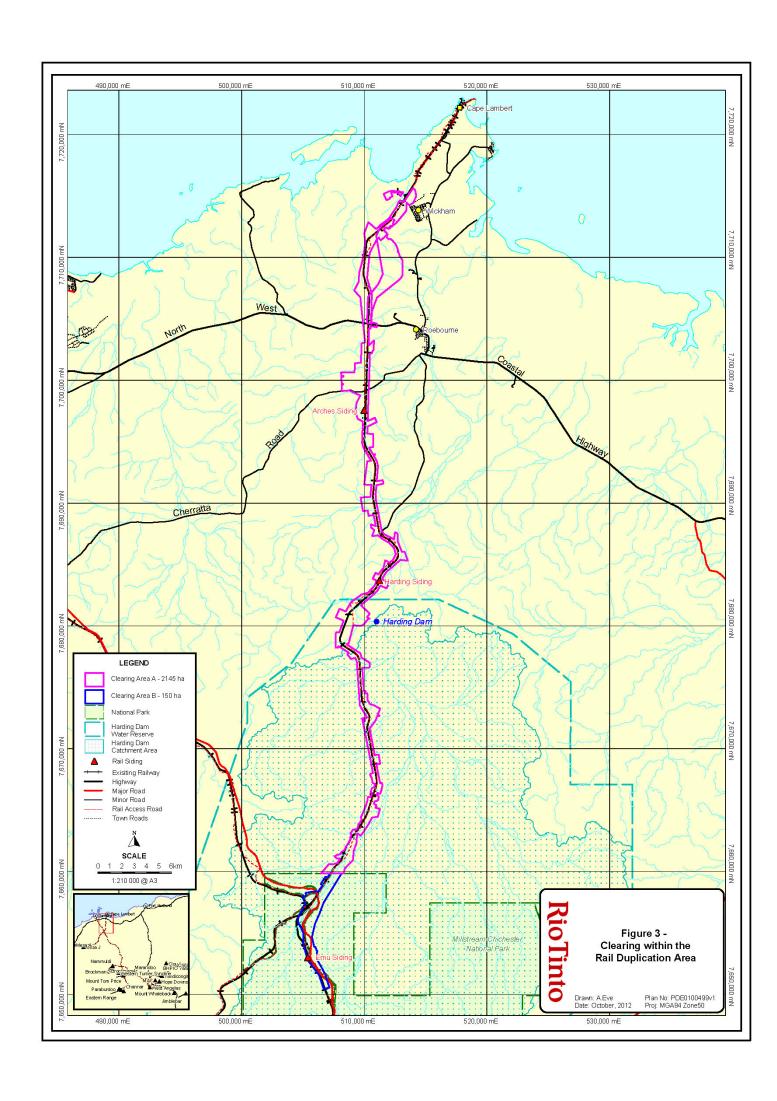
Table 3: Abbreviations

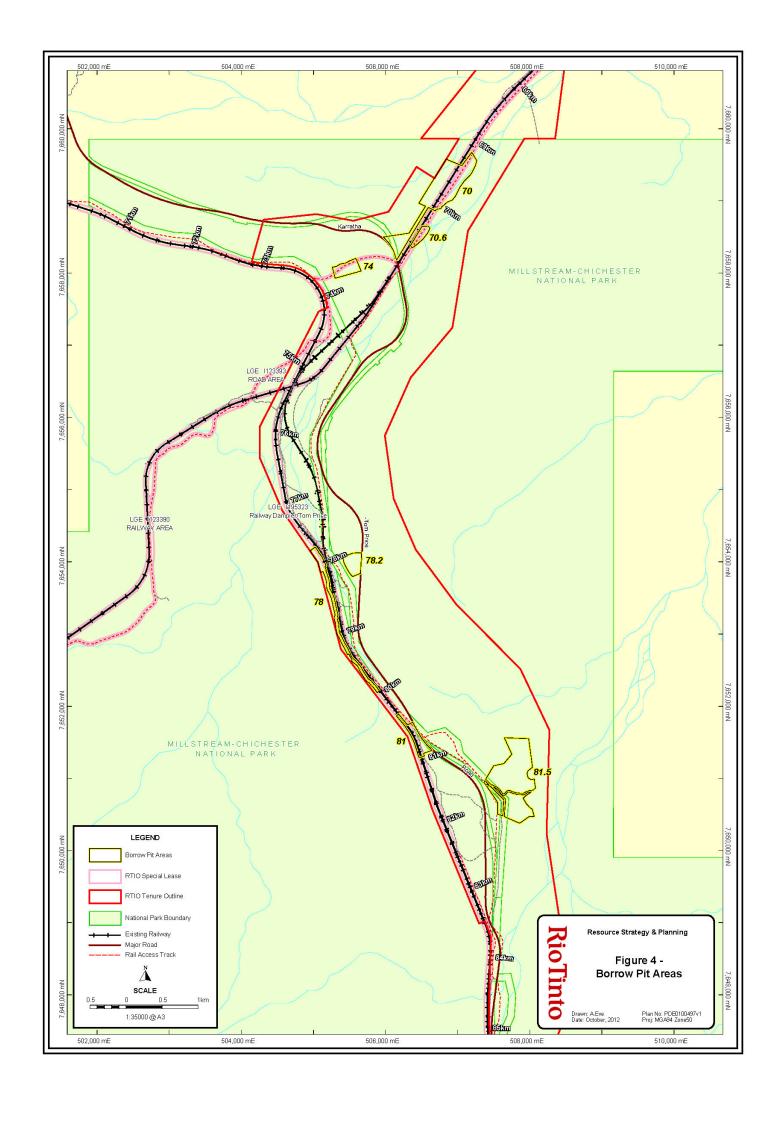
Abbreviation	Term	
ha	hectares	
km	kilometres	
m^3	cubic metres	

Figures
Figure 1: The Proposal Area
Figure 2: Rail Duplication Area
Figure 3: Clearing within the Rail Duplication Area
Figure 4: Borrow Pit Areas









Term or Phrase	Definition
Borrow Pit	As shown in Figure 4 of Schedule 1 and defined by MGA
Areas	coordinates for Borrow Pit Areas in Schedule 2.
CEO	The Chief Executive Officer of the Department of the Public Service
	of the State responsible for the administration of section 48 of the
	Environmental Protection Act 1986, or his delegate.
Clearing Area	Delineated in Figure 3 as Clearing Area A and defined by MGA
Α	coordinates for Clearing Area A in Schedule 2
Clearing Area	Delineated in Figure 3 as Clearing Area B and defined by MGA
В	coordinates for Clearing Area B in Schedule 2
DEC	Department of Environment and Conservation
EPA	Environmental Protection Authority
EP Act	Environmental Protection Act 1986
Proposal Area	As shown in Figure 1 of Schedule 1.
Rail	As shown in Figure 2 of Schedule 1.
Duplication	
Area	
Rehabilitation	All areas in the Rail Duplication Area that were disturbed during
Areas	construction and are not required for the operation of the rail line.

Notes

The following notes are provided for information and do not form a part of the implementation conditions of the Statement:

- The proponent for the time being nominated by the Minister for Environment under section 38(6) of the Environmental Protection Act 1986 is responsible for the implementation of the proposal unless and until that nomination has been revoked and another person is nominated.
- If the person nominated by the Minister, ceases to have responsibility for the proposal, that person is required to provide written notice to the Environmental Protection Authority of its intention to relinquish responsibility for the proposal and the name of the person to whom responsibility for the proposal will pass or has passed. The Minister for Environment may revoke a nomination made under section 38(6) of the Environmental Protection Act 1986 and nominate another person.
- To initiate a change of proponent, the nominated proponent and proposed proponent are required to complete and submit Post Assessment Form 1 – Application to Change Nominated Proponent.
- The General Manager of the Office of the Environmental Protection Authority was
 the Chief Executive Officer of the Department of the Public Service of the State
 responsible for the administration of section 48 of the Environmental Protection
 Act 1986 at the time the Statement was signed by the Minister for Environment.

Cape Lambert to Emu Siding Rail Duplication

Clearing Area A

Prepared 4 October 2012

Co-ordinates defining *Clearing Area A* are prescribed below, noting that the correct recreation of the boundary requires the sequential connection of the co-ordinates as per its co-ordinate number.

All co-ordinates are listed in Map Grid of Australia Zone 50 (MGA Zone 50), datum of Geodetic Datum of Australia 1994 (GDA94).

Coordinate No.	Easting	Northing
1a	513174.92	7715333.15
2a	512961.53	7714997.02
3a	512745.16	7715248.55
4a	512493.52	7715275.09
5a	512241.89	7715301.62
6a	512175.7	7715270.65
7a	512314.06	7714974.96
8a	512076.82	7714863.96
9a	512108.59	7714796.07
10a	511818.92	7714660.49
11a	511787.15	7714728.41
12a	511582.23	7715166.46
13a	512027.93	7715374.95
14a	512236.22	7715413.94
15a	512431.96	7715408.08
16a	512473.34	7715385.61
17a	512518.58	7715385.52
18a	512584.53	7715397.64
19a	512635.22	7715404.1
20a	512729.9	7715401.14
21a	512781.45	7715397.41
22a	512825.45	7715386.07
23a	512967.1	7715333.39
24a	513081.14	7715332.02
25a	513174.92	7715333.15

Coordinate No.	Easting	Northing
1b	514242.4	7714985.3
2b	513976.26	7714420.82
3b	513676.71	7714249.84
4b	513534.35	7714395.63
5b	513458.49	7714460.13
6b	513454.23	7714366.23
7b	513427.67	7713779.91
8b	512632.2	7712836.97
9b	511973.31	7712291.68
10b	511892.67	7712387.59
11b	511761.34	7712390.16
12b	511658.89	7712333.23
13b	511625.45	7712208.03
14b	511726.72	7712087.6
15b	511899.82	7711881.73
16b	511360.08	7711396.78
17b	511168.53	7711605.46
18b	510978.06	7711397.45
19b	510442.74	7710360.67
20b	510227.81	7708282.88
21b	510619.98	7707023.8
22b	510553.86	7704708.72
23b	511039.72	7704627.82
24b	511039.67	7704325.02

Coordinate No.	Easting	Northing
25b	510535.33	7704409.25
26b	510525.81	7704218.45
27b	510376.84	7704218.54
28b	510375.88	7702836.24
29b	510795.36	7703255.06
30b	510770.92	7702500.05
31b	510593.09	7702176.23
32b	510463.08	7702178.18
33b	510383.48	7699720.07
34b	510362.43	7699069.69
35b	510284.65	7696668.39
36b	510880.91	7696945.42
37b	511019.83	7696582.49
38b	510270.67	7696236.05
39b	510251.39	7695640.96
40b	510752.97	7695617.4
41b	510739.49	7694568.36
42b	510390.37	7694517.97
43b	510703.07	7693972.2
44b	510865.69	7693982.04
45b	510876.11	7693886.15
46b	510758.11	7693876.12
47b	511033.12	7693396.15
48b	511122.99	7692987.02
49b	511015.91	7691771.04
50b	511515.83	7691859.13
51b	511568.07	7691584.33
52b	510988.18	7691456.12
53b	510923.25	7690718.64
54b	510942.98	7690300.92
55b	511419.65	7687715.54
56b	511631.27	7687439.9
57b	512218.29	7687161.03
58b	512429.25	7687027.75
59b	512507.71	7687622.03
60b	512714.63	7687536.16
61b	512735.85	7686834.07
62b	513067.53	7686028
63b	513294.37	7686035.07
64b	513544.21	7685310.89
65b	512952.55	7685371.87
66b	511805.39	7684383.73
67b	511510.85	7683929.76

Coordinate No.	Easting	Northing
68b	511467.22	7683784.3
69b	512036.71	7683507.17
70b	511816.37	7683069.27
71b	511313.5	7683271.89
72b	511025.24	7682817.96
73b	509735.88	7681662.66
74b	510446.99	7680995.38
75b	510233.1	7680707.86
76b	510450.47	7680578.12
77b	510299.35	7680548.58
78b	510171.55	7680382.94
79b	509982.49	7680137.94
80b	509907.99	7680086.52
81b	509743.88	7680012.41
82b	509198.4	7680024.42
83b	509110.92	7680024.85
84b	508781.64	7678766.01
85b	508669.97	7678436.91
86b	509678.6	7677767.5
87b	509780.22	7677388.41
88b	510448.86	7677005.02
89b	510451.42	7676612.99
90b	509834	7676597.6
91b	509963.24	7674697.54
92b	510100.38	7674697.54
93b	510040.47	7674497.32
94b	510247.98	7674507.91
95b	510280.28	7673923.02
96b	510463.47	7673638.37
97b	510794.78	7673521.16
98b	511299.49	7673256.84
99b	511109.39	7672773.21
100b	511248.1	7672695.93
101b	511218.13	7672633.18
102b	511083.76	7672708.05
103b	510909.54	7672264.88
104b	510452.18	7671648.37
105b	510854.9	7669469.44
106b	511174.89	7669526.26
107b	511300.67	7668769.43
108b	510995.45	7668708.95
109b	511151.94	7667862.34
110b	511303.49	7667193.9

Coordinate No.	Easting	Northing
111b	511296.93	7667171.42
112b	511418.41	7667234.68
113b	511486.53	7667082.96
114b	511480.6	7666990.8
115b	511411.74	7666675.84
116b	511298.2	7666337.53
117b	511221.79	7666313.53
118b	511075.69	7666412.89
119b	511069.53	7666391.76
120b	511012.11	7666214.35
121b	511080.91	7666223.73
122b	511200.12	7666072
123b	511125.81	7665836.69
124b	511025.18	7665737.6
125b	510871.91	7665722.13
126b	510854.02	7665725.89
127b	510784.09	7665509.82
128b	510982.57	7665425.05
129b	510952.81	7665308.36
130b	510914.08	7665192.95
131b	511289.63	7665098.53
132b	511110.53	7664453.42
133b	510641.16	7664379.73
134b	510302.87	7663778.27
135b	509922.26	7663185.99
136b	509698.7	7662904.48
137b	509470.15	7663092.47
138b	509409.04	7663018.12
139b	509370.24	7662347.63
140b	509136.02	7661681.94
141b	509126.35	7661542.87
142b	509085.18	7660949.94
143b	509084.07	7660933.95
144b	508398.35	7660227.15
145b	508350.85	7659863.21
146b	508159.96	7659863.25
147b	507210.99	7659852.67
148b	507030.09	7659852.69
149b	506491.33	7659863.42
150b	507136.46	7660612.91
151b	507387.9	7660575.68
152b	507812.75	7660680.61
153b	508039.96	7661045.23

Coordinate No.	Easting	Northing
154b	507964.71	7661056.44
155b	507745.84	7661048.72
156b	507591.57	7661235.78
157b	507840.92	7661381.65
158b	508068.15	7661408.07
159b	508129.79	7661573.64
160b	508374.05	7661726.2
161b	508509.58	7662006.68
162b	508710.12	7662344.92
163b	508904.55	7662725.21
164b	508867.82	7662757.3
165b	508971.74	7662996.84
166b	508875.88	7663108.24
167b	509088.96	7663431.25
168b	509300.78	7663358.57
169b	509456.27	7663555.51
170b	509518.66	7663781.37
171b	509791.29	7664206.4
172b	509728.36	7664426.21
173b	510000.45	7665004.09
174b	510083.38	7665234.71
175b	510092.5	7665261.37
176b	510051.39	7665274.71
177b	510137.33	7665392.35
178b	510237.41	7665684.86
179b	510264.67	7665777.37
180b	510280.51	7665977.57
181b	510319.21	7666090.59
182b	510500.24	7666037.25
183b	510529.09	7666038.04
184b	510647.91	7666403.99
185b	510515.48	7666442.66
186b	510617.94	7666793.52
187b	510827.69	7666868.42
188b	510892.83	7667144.52
189b	510882.9	7667146.87
190b	510844.04	7667137.15
191b	510832.71	7667158.7
192b	510694.94	7667191.21
193b	510622.55	7667571.77
194b	510458.55	7667903.48
195b	510534.35	7667924.64
196b	510524.5	7667960.83

Coordinate No.	Easting	Northing
197b	510716.7	7668013.18
198b	510547.05	7668861.33
199b	509888.24	7672154.77
200b	509874.7	7672222.47
201b	510063.4	7672260.22
202b	510039.57	7672379.39
203b	509850.86	7672341.64
204b	509826.15	7672465.15
205b	510227.54	7672536.4
206b	509642.13	7673524.28
207b	509398.05	7677113.01
208b	509261.56	7677391.16
209b	508936.2	7677304.69
210b	508615.13	7677676.87
211b	508753.6	7677810.26
212b	507894.38	7678363.36
213b	507893.19	7678231.49
214b	507659.33	7678232.07
215b	507659.87	7679359.29
216b	507727.8	7679486.9
217b	507972.31	7679457.89
218b	508327.15	7680427.37
219b	507675.75	7680692.15
220b	507991.99	7681378.67
221b	508484.5	7681171.16
222b	508930.95	7681940.44
223b	509810.5	7682567.57
224b	510285.12	7682689.84
225b	510831.69	7683259.37
226b	511022.21	7683693.01
227b	510697.48	7683843.38
228b	510919.82	7684318.83
229b	511151.9	7684182.53
230b	511330.77	7684458.24
231b	511564.35	7684700.05
232b	511716.79	7685334.72
233b	512045.19	7685143.18
234b	512351.29	7685381.91
235b	512583.27	7685846.44
236b	512415	7686337.65
237b	511990.93	7686787.49
238b	511459.65	7687078.61
239b	511120.35	7687372.38

Coordinate No.	Easting	Northing
240b	510642.76	7687304.95
241b	510820.79	7687800.9
242b	510561.59	7687994.86
243b	510528.4	7688258.38
244b	510937.32	7688125.52
245b	510771.61	7689024.35
246b	510352.84	7688956.75
247b	510275.71	7689390.63
248b	509897.27	7689348.91
249b	509742.14	7690195.58
250b	509721.1	7690453.27
251b	510501.5	7690489.36
252b	510588.09	7691472.89
253b	510000.34	7691508.65
254b	510245.92	7693420.16
255b	510550.87	7693433.2
256b	509919.22	7694535.68
257b	509827.35	7694904.81
258b	509883.73	7696645.74
259b	509466.1	7696855.07
260b	509291.09	7697436.63
261b	509379.04	7698145.66
262b	509676.13	7698757.17
263b	509350.99	7698906.82
264b	508772.48	7699173.11
265b	508180.85	7699113.33
266b	508159.68	7699606.11
267b	508220.5	7699626.36
268b	508285.19	7699645.61
269b	508294.96	7699678.42
270b	508275.41	7699697.67
271b	508236.6	7699706.5
272b	508156.09	7699689.78
273b	508130.87	7700276.91
274b	508168.92	7700259.91
275b	508194.16	7700278.84
276b	508293.23	7700275.68
277b	508306.48	7700362.76
278b	508263.57	7700350.78
279b	508203.63	7700368.44
280b	508127.59	7700353.26
281b	508115.29	7700639.66
282b	509216.77	7700647.35

Coordinate No.	Easting	Northing
283b	509238.64	7701386.45
284b	509737.07	7701414.1
285b	509786.52	7702989.97
286b	510072.22	7703095.11
287b	509706.12	7706384.22
288b	509674.59	7706753.95
289b	509174.48	7707311
290b	509558.23	7708021.55
291b	509587.94	7708746.96
292b	509806.4	7709528
293b	509904.83	7710021.35
294b	509996.78	7710529.29
295b	510081.27	7711328.67
296b	510038.17	7711681.33
297b	510005.24	7711950.79
298b	510339.13	7712866.43
299b	510984.26	7712304.49
300b	511288.04	7712624.41
301b	511931.64	7713087.53
302b	512069.19	7713242.18
303b	512639.79	7714124.26
304b	512781.42	7714467.54
305b	512927.02	7714651.52
306b	512996.24	7714608.01
307b	513210.67	7714469.28
308b	513313.17	7714625.3
309b	513312.96	7714625.47
310b	513321.21	7714638.07
311b	513321.44	7714637.89
312b	513477.29	7714875.09
313b	513969.63	7715624.47
314b	514153.27	7715491.61
315b	514242.4	7714985.3
1c	510235.64	7704661.18
2c	510294.71	7706776.05
3c	511095.2	7707771.77
4c	511235.52	7708005.7
5c	511506.51	7708640.55
6c	510981.7	7711742.39
7c	511309.81	7712478.87
8c	511605.84	7712704.79
9c	512007.38	7713017.38

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Coordinate No.	Easting	Northing
10c	512176.4	7713217.02
11c	512467.2	7713028.91
12c	512433.37	7712977.45
13c	512377.06	7712900.17
14c	512324.07	7712566.15
15c	512227	7712577.7
16c	512099.95	7712540.49
17c	512038.35	7712416.64
18c	511960.04	7712369.54
19c	511806.86	7712440.38
20c	511706.76	7712420.81
21c	511614.68	7712343.81
22c	511601.68	7712257.82
23c	511662.96	7712142.64
24c	511756.65	7712045.42
25c	511828.52	7711988.31
26c	511861.65	7711880.99
27c	511895.65	7711849.23
28c	511889.64	7711808.63
29c	511852.1	7711732.28
30c	511833.5	7711684.15
31c	511863.65	7711588.54
32c	511917.88	7711528.22
33c	511968.89	7711487.79
34c	512132.75	7711512.44
35c	512303.25	7711371.62
36c	512537.75	7711101.43
37c	512621.83	7710951.3
38c	512674.99	7710822.18
39c	512704.38	7710726.61
40c	512768.15	7710509.18
41c	512730.26	7710487.34
42c	512750.18	7710452.73
43c	512780.1	7710400.76
44c	512797.09	7710410.55
45c	512883.24	7710116.8
46c	513090.82	7709779.41
47c	513114.26	7709756.19
48c	513114.09	7709552.69
49c	513113.75	7709133.8
50c	513113.24	7708532.49
51c	512968.68	7708304.56
52c	512800.28	7708134.45
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Coordinate No.	Easting	Northing
53c	511718.7	7707270.52
54c	511020.62	7706709.43
55c	511020.21	7706634.69
56c	510843.62	7706182.02
57c	510623.52	7705587.82
58c	510591.57	7704601.42
59c	510235.64	7704661.18

Cape Lambert to Emu Siding Rail Duplication

Clearing Area B

Prepared 4 October 2012

Co-ordinates defining *Clearing Area B* are prescribed below, noting that the correct recreation of the boundary requires the sequential connection of the co-ordinates as per its co-ordinate number.

All co-ordinates are listed in Map Grid of Australia Zone 50 (MGA Zone 50), datum of Geodetic Datum of Australia 1994 (GDA94).

Coordinate No.	Easting	Northing
1	507210.99	7659852.67
2	508159.96	7659863.25
3	506682.26	7657448.64
4	506349.23	7656553.65
5	505991.44	7655748.5
6	505736.62	7654686.36
7	505910.83	7653866.93
8	506006.44	7653878.62
9	506137.65	7653543.72
10	506174.58	7653537.36
11	506140.88	7653203.14
12	506052.77	7653199.25
13	506117.31	7652895.7
14	506430.51	7652334.88
15	506623.52	7651989.3
16	506793.55	7651684.83
17	507168.5	7650538.91
18	506703.82	7650430.27
19	506649.55	7650562.26
20	506305.51	7651578.79
21	505380.17	7652790.84
22	505058.64	7653995.39
23	505055.77	7654117.86
24	505027.66	7654162.51
25	504991.27	7654214.02
26	504983.78	7654228.24
27	505052.67	7654213.51
28	505053.58	7654210.79
29	505035.29	7654990.39

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Coordinate No.	Easting	Northing
59	506461.36	7658968.96
60	506668.08	7659301.44
61	506673.25	7659309.75
62	506839.84	7659577.69
63	506947.24	7659533.85
64	506999.49	7659512.51
65	507210.99	7659852.67

Borrow Pits in Millstream Chichester National Park

Borrow Pit Areas

Prepared 4 October 2012

Co-ordinates defining *Borrow Pit Areas* are prescribed below, noting that the correct recreation of the boundary requires the sequential connection of the co-ordinates as per its co-ordinate number.

All co-ordinates are listed in Map Grid of Australia Zone 50 (MGA Zone 50), datum of Geodetic Datum of Australia 1994 (GDA94).

Borrow Pit 70

Coordinate No.	Easting	Northing
1	507264.56	7659558.56
2	507196.93	7659673.52
3	507055.5	7659489.65
4	506947.24	7659533.85
5	506839.84	7659577.69
6	506673.25	7659309.75
7	506668.08	7659301.44
8	506461.36	7658968.96
9	506554.06	7658926.19
10	506325.38	7658552.41
11	505968.49	7658500.95
12	506052.62	7658406.72
13	506107.32	7658313.46
14	506151.68	7658178.93
15	506356.8	7658525.03
16	506591.09	7658909.8
17	506640.16	7658886.72
18	506692.49	7658862.64
19	506701	7658881
20	506765	7658893
21	506782	7658920
22	506822.88	7658954.26
23	506853.7	7658981.34
24	506925.83	7659013.49
25	506968.55	7659065.7
26	507012.46	7659153.51
27	507035.01	7659196.23
28	507072.98	7659252
29	507091.96	7659279.3

Coordinate No.	Easting	Northing
30	507120.44	7659306.59
31	507141.81	7659325.58
32	507172.66	7659355.24
33	507191.65	7659386.1
34	507226.06	7659446.61
35	507246.23	7659492.89
36	507264.56	7659558.56

Borrow Pit 70.6

Coordinate No.	Easting	Northing
1	506615.47	7658625.68
2	506592.12	7658650.48
3	506506.61	7658648.36
4	506344.23	7658382.62
5	506371.94	7658348.75
6	506400.71	7658372.14
7	506426.47	7658390.03
8	506447.22	7658405.05
9	506460.1	7658423.66
10	506486.58	7658443.7
11	506517.35	7658471.6
12	506537.39	7658498.09
13	506562.43	7658526.71
14	506581.76	7658553.89
15	506603.94	7658596.84
16	506615.47	7658625.68

Borrow Pit 74

Coordinate No.	Easting	Northing
1	505262.46	7658080.53
2	505300.13	7658088.77
3	505327.32	7658097.36
4	505368.83	7658123.11
5	505403.17	7658133.13
6	505444.68	7658138.86
7	505510.52	7658174.64
8	505587.21	7658204.78
9	505596.54	7658182.45
10	505602.6	7658167.93
11	505660.24	7658029.88
12	505299.62	7657927.43
13	505286.69	7657980.69
14	505283.19	7657995.14
15	505262.46	7658080.53

Borrow Pit 78

Coordinate No.	Easting	Northing
1	505590.51	7652627.57
2	505590.35	7652627.34
3	505666.7	7652533.93
4	505668.29	7652530.24
5	505668.76	7652529.05
6	505675.25	7652510.89
7	505686.54	7652492.65
8	505739.73	7652409.27
9	505740.19	7652408.52
10	505752.05	7652387.99
11	505760.96	7652376.22
12	505769.64	7652371.01
13	505769.82	7652370.91
14	505797.17	7652354.12
15	505799.62	7652352.34
16	505805.86	7652347.06
17	505809.16	7652343.49
18	505834.7	7652308.1
19	505845.16	7652300.35
20	505847.82	7652297.98
21	505862.7	7652282.14
22	505864.1	7652280.49

Coordinate	Easting	Northing
No.		
23	505916.06	7652211.7
24	505882.18	7652189.35
25	505832.82	7652255.54
26	505819.9	7652269.27
27	505808.39	7652277.81
28	505804.08	7652282.18
29	505778.16	7652318.1
30	505774.94	7652320.82
31	505748.97	7652336.77
32	505737.06	7652343.92
33	505731.41	7652348.99
34	505719.42	7652364.82
35	505718.04	7652366.89
36	505705.78	7652388.12
37	505652.74	7652471.25
38	505652.6	7652471.48
39	505640.12	7652491.64
40	505639.8	7652492.17
41	505638.29	7652495.44
42	505631.31	7652514.99
43	505620.18	7652540.82
44	505611.21	7652555.11
45	505599.47	7652568.92
46	505588.63	7652578.93
47	505535.2	7652619.11
48	505533.09	7652620.96
49	505526.12	7652627.93
50	505533.04	7652642.94
51	505489.06	7652719.98
52	505473.42	7652711.95
53	505445.41	7652772.87
54	505403.08	7652848.49
55	505402.91	7652848.8
56	505389	7652874.71
57	505388.42	7652875.88
58	505351.97	7652955.85
59	505328.14	7652994.65
60	505327.86	7652995.12
61	505326.78	7652997.29
62	505322.18	7653008.1
63	505320.47	7653014.51
64	505303.91	7653158.41
65	505292.34	7653199.59

Coordinate No.	Easting	Northing
66	505292.19	7653200.14
67	505288.83	7653213.58
68	505288.23	7653218.44
69	505288.25	7653219.4
70	505288.74	7653229.48
71	505289.58	7653234.34
72	505292.93	7653245.38
73	505293.79	7653247.67
74	505299.27	7653260
75	505299.53	7653260.71
76	505299.41	7653262.58
77	505279.63	7653348.31
78	505279.61	7653348.47
79	505279.57	7653348.58
80	505249.13	7653489.13
81	505237.77	7653520.94
82	505231.61	7653535.45
83	505190.26	7653613.39
84	505189.32	7653615.45
85	505184.86	7653626.8
86	505183.49	7653633.31
87	505180.79	7653701.22
88	505176.18	7653736.71
89	505171.32	7653762.32
90	505132.55	7653867.04
91	505122.7	7653862.9
92	505099	7653852.88
93	505058.68	7653996.98
94	505020.37	7654052.53
95	505019.11	7654053.09
96	504976.71	7654114.97
97	504976.76	7654115.76
98	504952.66	7654150.7
99	505025.55	7654205.7
100	505067.95	7654140.76
101	505080.42	7654115.36
102	505090.14	7654110.71
103	505123.56	7654059.85
104	505174.42	7653945.06
105	505158.91	7653932.88
106	505173.14	7653897.53
107	505175.01	7653893.68
108	505178.03	7653886.14

Coordinate	Easting	Northing
No.	Easting	Northing
109	505169.47	7653882.55
110	505209.41	7653774.64
111	505210.3	7653771.43
112	505215.59	7653743.59
113	505215.77	7653742.44
114	505220.57	7653705.49
115	505220.72	7653703.71
116	505223.33	7653638.28
117	505226.13	7653631.13
118	505267.35	7653553.42
119	505268.1	7653551.86
120	505274.82	7653536.03
121	505275.24	7653534.95
122	505287.24	7653501.35
123	505287.94	7653498.85
124	505318.64	7653357.18
125	505338.76	7653269.97
126	505339.23	7653266.71
127	505339.71	7653259.03
128	505339.74	7653257.79
129	505338.54	7653250.95
130	505336.62	7653245.68
131	505336.11	7653244.4
132	505330.85	7653232.56
133	505328.57	7653225.08
134	505328.35	7653220.43
135	505330.92	7653210.13
136	505342.85	7653167.69
137	505343.46	7653164.57
138	505359.92	7653021.56
139	505363.01	7653014.31
140	505386.7	7652975.74
141	505386.99	7652975.27
142	505387.86	7652973.56
143	505424.55	7652893.06
144	505438.07	7652867.87
145	505480.69	7652791.72
146	505481.42	7652790.31
147	505522.4	7652701.2
148	505535.18	7652677.83
149	505543.98	7652666.63
150	505560.37	7652650.24
151	505590.51	7652627.57

Borrow Pit 78.2

Coordinate No.	Easting	Northing
1	505407.79	7654067.58
2	505552.08	7654123.43
3	505666.16	7654123.81
4	505653.08	7653840.46
5	505542.49	7653795.06
6	505527.91	7653812.01
7	505514.25	7653828.52
8	505492.63	7653855.82
9	505465.89	7653900.77
10	505441.42	7653944.01
11	505434.6	7653963.93
12	505421.51	7653991.8
13	505412.98	7654035.61
14	505407.79	7654067.58

Borrow Pit 81

Coordinate No.	Easting	Northing
1	506645.89	7651388.74
2	506552.03	7651484.83
3	506496.91	7651560.07
4	506374	7651776.83
5	506326.24	7651753.96
6	506304.78	7651741.78
7	506294.28	7651754.47
8	506293.28	7651755.8
9	506180.86	7651891.68
10	506150.04	7651866.19
11	506261.93	7651730.94
12	506304.61	7651669.57
13	506328.45	7651630.45
14	506341.88	7651605.52
15	506342.17	7651605
16	506342.41	7651604.59
17	506367.52	7651563.38
18	506389.72	7651510.01
19	506406.52	7651463.45
20	506456.74	7651303.05
21	506458.5	7651299.03
22	506465.82	7651291.71
23	506475.82	7651289.03

Coordinate No.	Easting	Northing
24	506482.54	7651290.19
25	506537.47	7651309.78
26	506525.64	7651348.47
27	506645.89	7651388.74

Borrow Pit 81.5

Coordinate No.	Easting	Northing
1a	508079	7650860.22
2a	508070	7650859.01
3a	508049	7650838.07
4a	508045	7650839.08
5a	508043	7650838.83
6a	508008	7650830.79
7a	507997	7650830.15
8a	507997	7650830.08
9a	507986	7650828.71
10a	507984	7650828.19
11a	507971	7650823.42
12a	507951	7650816.61
13a	507950	7650815.81
14a	507949	7650815.63
15a	507933	7650805.67
16a	507905	7650792.59
17a	507870	7650794.51
18a	507870	7650794.52
19a	507849	7650795.2
20a	507824	7650797.83
21a	507804	7650802.43
22a	507776	7650810.51
23a	507748	7650820.48
24a	507727	7650831.18
25a	507722	7650832.23
26a	507711	7650832.23
27a	507710	7650832.21
28a	507700	7650831.53
29a	507699	7650831.25
30a	507688	7650828.5
31a	507685	7650827.46
32a	507684	7650826.49
33a	507671	7650816.21
34a	507669	7650813.95

Coordinate No.	Easting	Northing
35a	507662	7650803.18
36a	507648	7650789.07
37a	507645	7650786.31
38a	507635	7650786.31
39a	507628	7650786.74
40a	507624	7650790.81
41a	507609	7650808.34
42a	507587	7650842.74
43a	507585	7650844.5
44a	507565	7650864.38
45a	507563	7650865.74
46a	507528	7650886.99
47a	507528	7650887.1
48a	507527	7650887.45
49a	507487	7650906.64
50a	507484	7650907.58
51a	507468	7650909.23
52a	507388	7650989.08
53a	507496	7651175.74
54a	507641	7651204.58
55a	507751	7651336.17
56a	507646	7651563.32
57a	507983	7651550.69
58a	508038	7651154.41
59a	507975	7651104.98
60a	507960	7651065.03
61a	507979	7651006.03
62a	508016	7650983
63a	508059	7650992.05
64a	508060	7650994.15
65a	508079	7650860.26
66a	508079	7650860.22
1b	507400	7650892.73
2b	507414	7650895.2
3b	507431	7650895.82
4b	507448	7650892.63
5b	507455	7650891.2
6b	507641	7650704.1
7b	507625	7650479.25
8b	507606	7650487.11
9b	507554	7650501.43
10b	507554	7650650.86

Coordinate	Facting	Northing
No.	Easting	Northing
11b	507554	7650662.52
12b	507554	7650662.65
13b	507539	7650689.24
14b	507400	7650892.73
1c	507497	7650879.95
2c	507518	7650869.64
3c	507552	7650849.22
4c	507571	7650830.92
5c	507593	7650796.92
6c	507593	7650795.86
7c	507609	7650777.36
8c	507610	7650776.45
9c	507618	7650769.59
10c	507619	7650768.33
11c	507624	7650767.01
12c	507634	7650766.33
13c	507635	7650766.31
14c	507649	7650766.31
15c	507654	7650767.65
16c	507656	7650768.83
17c	507662	7650774.31
18c	507662	7650774.72
19c	507677	7650789.79
20c	507679	7650791.43
21c	507685	7650801.81
22c	507695	7650809.65
23c	507703	7650811.63
24c	507711	7650812.23
25c	507720	7650812.23
26c	507740	7650802.31
27c	507741	7650801.84
28c	507770	7650791.56
29c	507770	7650791.36
30c	507799	7650783.14
31c	507800	7650783.02
32c	507820	7650778.22
33c	507821	7650778.01
34c	507847	7650775.27
35c	507848	7650775.22
36c	507869	7650774.54
37c	507907	7650772.49
38c	507907	7650772.48
	I	

Coordinate No.	Easting	Northing		
39c	507912	7650773.42		
40c	507942	7650787.81		
41c	507943	7650788.21		
42c	507944	7650788.39		
43c	507959	7650798.06		
44c	507978	7650804.54		
45c	507978	7650804.61		
46c	507990	7650809.03		
47c	507999	7650810.21		
48c	508010	7650810.88		
49c	508012	7650811.11		
50c	508020	7650812.9		
51c	507993	7650791.97		
52c	507948	7650764		
53c	507907	7650724.95		
54c	507958	7650642.03		
55c	508000	7650593.97		
56c	508033	7650573.04		
57c	508061	7650470.99		
58c	508061	7650470.88		
59c	507989	7650470.88		
60c	507859	7650378.94		
61c	507646	7650470.1		
62c	507663	7650707.96		
63c	507663	7650708.66		
64c	507661	7650713.66		
65c	507660	7650715.71		
66c	507497	7650879.95		
1d	507377	7650969.39		
2d	507430	7650915.82		
3d	507413	7650915.17		
4d	507411	7650915.02		
5d	507392	7650913.52		
6d	507389	7650911.39		
7d	507389	7650910.40		
7d 8d	507365	7650945.61		
9d	507377	7650945.61		
1e	507377	7650969.388		
2e	507430	7650915.819		
3e	507413	7650915.169		
4e	507411	7650915.019		

Coordinate No.	Easting	Northing
5e	507392	7650911.59
6e	507389	7650910.4
7e	507389	7650910.08
8e	507365	7650945.613
9e	507377	7650969.388

Schedule 3

Residual Impact Management	Project Value and Timeframe	Responsibility to Implement	Governance	Cost
 Project A: Managing the impacts associated with the proposed clearing of native vegetation within the Millstream Chichester National Park (permanent and temporary). Managing the impacts associated with an increase in activities within the Millstream Chichester National Park as a result of construction of the Project. (To include rehabilitation or other activities deemed more beneficial to the Millstream Chichester National Park). 	\$275,000 per annum. Service Order will be raised by 31 January of each year (2012, 2013*, 2014*, 2015*, 2016*)	Robe River Mining Company / DEC	Robe River Mining Company / DEC	\$1,375,000 Over 5 years^
 Project B: Managing the impacts and risks associated with the following threatening processes as a result of the Project Spread and/or introduction of weeds within Millstream Chichester National Park. Increased risk of fire within the Millstream Chichester National Park 	\$250,000 per annum. Service Order will be raised by 31 January of each year (2012, 2013*, 2014*, 2015*, 2016*)	Robe River Mining Company / DEC	Robe River Mining Company / DEC	\$1,250,000 Over 5 years^
Project C: Implementation of the Prescribed Fire Management Plan for the Millstream Chichester National Park and surrounding areas as prepared in Project B.	\$100,000 per annum. Service Order will be raised by 31 January of each year (2013, 2014*, 2015*, 2016*, 2017*)	Robe River Mining Company / DEC	Robe River Mining Company / DEC	\$500,000 Over 5 years^
Project D: Managing the impacts of feral herbivores on the Millstream Chichester National Park and surrounding areas	\$250,000 per annum. Service Order will be raised by 31 January of each year (2013, 2014*, 2015*, 2016*, 2017*)	Robe River Mining Company / DEC	Robe River Mining Company / DEC	\$1,250,000 Over 5 years^
				\$4,375,000

^{*}Indexed to CPI

[^] Note: The disturbance footprint may change as a result of detailed feasibility studies and heritage surveys. Robe River Mining Company will provide resources to DEC for the actual permanent and temporary disturbances on a pro-rata basis in accordance with the rates and ratios agreed in this Agreement.