





DENDROBIUM & CORDEAUX ANNUAL REPORT -APPENDIX



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APPENDIX A EPA Annual Return



DENDROBIUM COAL PTY LTD



ANNUAL RETURN

LICENCE NO	3241
LICENCE HOLDER	DENDROBIUM COAL PTY LTD
REPORTING PERIOD	01-Jul-2015 to 30-Jun-2016

If your licence has been transferred, suspended, surrendered or revoked by the EPA during this reporting period, cross out the dates above and specify the new dates to which this Annual Return relates below:

REVISED REPORTING PERIOD _____/ ____ to ____/ ____/ ____/

(Note: the revised reporting period also needs to be entered in Section H)

THIS ANNUAL RETURN MUST BE RECEIVED BY THE EPA BEFORE 30-Aug-2016

Your Annual Return must be completed, including certification in Section I, and submitted to the EPA no later than 60 Days after the end of the reporting period for your licence.

Failure to submit this Annual Return within 60 days after the reporting period ends may result in:

- the issue of a Penalty Notice for \$1500 (individuals) or \$3000 (corporations); OR
- prosecution.

Please send your completed Annual Return by Registered Post to:

Regulatory and Compliance Support Unit Environment Protection Authority PO Box A290 SYDNEY SOUTH NSW 1232

It is an offence to supply any information in this form to the EPA that is false or misleading in a material respect, or to certify a statement that is false or misleading in a material respect.

THERE IS A MAXIMUM PENALTY OF \$250,000 FOR A CORPORATION OR \$120,000 FOR AN INDIVIDUAL.

Details provided in this Annual Return will be available on the EPA's Public Register in accordance with section 308 of the Protection of the Environment Operations Act 1997.

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Use the checklist below to ensure that you have completed your Annual Return correctly. (\checkmark the boxes)

	CHECKLIST						
₪	Section A:	All licence details are correct					
Ø	Section B1:	You have entered the correct number in the complaints table					
☑	Section B2 – B3:	If there are tables, you have provided the required details					
	Section C:	You have answered question 1, and 2 if applicable					
	Section D:	If applicable, you have completed all load calculation worksheets					
	Section E:	You have answered question 1, 2, 3, 4, 5 and 6 if applicable					
☑	Section F:	You have answered question 1, 2 and 3 if applicable					
Ø	Section G:	You have answered question 1 and question 2, 3 and 4 or question 5 through to 11 if applicable					
	Section H:	The Annual Return has been signed by appropriate person(s) and, if applicable, the revised reporting period entered					
ً	Make a copy of the	e completed Annual Return and keep it with your licence records					

Please send your completed Annual Return by Registered Post to:

Regulatory and Compliance Support Unit Environment Protection Authority PO Box A290 SYDNEY SOUTH NSW 1232



A Statement of Compliance - Licence Details

ALL licence holders must check that the licence details in Section A are correct

If there are changes to any of these details you must advise the EPA and apply as soon as possible for a variation to your licence or for a licence transfer.

Licence variation and transfer application forms are available on the EPA website at: <u>http://www.epa.nsw.gov.au/licensing</u>, or from regional offices of the EPA, or by contacting us on telephone 02 9995 5700.

If you are applying to vary or transfer your licence you must still complete this Annual Return.

A1 Licence Holder

Licence Number	3241
Licence Holder	DENDROBIUM COAL PTY LTD
Trading Name <i>(if applicable)</i>	
ABN	85 098 744 088

A2 Premises to which Licence Applies (if applicable)

Common Name (if any)	DENDROBIUM MINE
Premises	CORDEAUX ROAD MOUNT KEMBLA NSW 2526

A3 Activities to which Licence Applies

Mining for coal Coal works

A4 Other Activities (if applicable)

A5 Fee-Based Activity Classifications

Note that the fee based activity classification is used to calculate the administrative fee.

Fee-based activity	Activity scale	Unit of measure
Mining for coal	> 3,500,000.00 - 5,000,000.00	T annual production capacity
Coal works	> 2,000,000.00 - 5,000,000.00	T annual handing capacity

A6 Assessable Pollutants (Not Applicable)

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B Monitoring and Complaints Summary

B1 Number of Pollution Complaints

Number of complaints recorded by the licensee during the reporting period.	
If no complaints were received enter nil in the attached box, otherwise complete the table below.	44

Pollution Complaint Category	Number of Complaints
Air	3
Water	0
Noise	3
Waste	0
Other	38*

*Noise complaints related to Rail Operations

B2 Concentration Monitoring Summary

For each monitoring point identified in your licence complete all the details for each pollutant listed in the tables provided below.

If concentration monitoring is not required by your licence, no tables will appear below.

Note that this does not exclude the need to conduct appropriate concentration monitoring of assessable pollutants as required by load-based licensing (if applicable).

Discharge Point 5

Stormwater and minewater discharge from Dendrobium mine. Brine discharge from Appin West mine. Discharge quality monitoring, Pipeline discharging to Allan's Creek labelled as "Discharge Point" on map titled "Dendrobium Mine Water Disposal Pipeline" dated 8 November 2002.

Pollutant	Unit of measure	samples required by	No. of samples you collected and analysed	Lowest sample value		Highest sample value
Arsenic	milligrams per litre	12	12	0.010	0.024	0.118

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Conductivity	microsiemens per centimetre	12	12	1450	3773	19400
Copper	milligrams per litre	12	12	<0.001	0.002	0.004
Nickel	milligrams per litre	12	12	0.006	0.026	0.223
Oil and Grease	milligrams per litre	12	12	<5	6	12
рН	рН	12	12	7.8	8.0	8.6
Total suspended solids	milligrams per litre	12	12	<5	14	39
Zinc	milligrams per litre	12	12	0.020	0.026	0.223

Monitoring Point 6

Dust Monitoring, Dust gauge located at Figtree Farm, O'Briens Road Figtree, labelled as "Point 6" in the map titled "Figure 1 - Air Quality Monitoring Sites" submitted to the EPA on 15/9/09.

Pollutant	Unit of measure	No. of samples required by licence	No. of samples you collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Ash	grams per square metre per month	12	11*	0.1	0.6	2.9
Combustible solids	grams per square metre per month	12	11	0.1	0.6	2.3
Insoluble solids	grams per square metre per month	12	11	0.2	1.2	5.2

*Dust deposition gauge was found to be broken when being collected.

Monitoring Point 9

Dust Monitoring, Dust gauge located at Mt Kembla Primary School labelled as "Point 9" in the map titled "Figure 1 - Air Quality Monitoring Sites" submitted to the EPA on 15/9/09.

Pollutant	Unit of measure	samples you	 _	Highest sample value
		 collected and analysed		



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Ash	grams per square metre per month	12	12	0.1	1.1	5.0
Combustible solids	grams per square metre per month	12	12	0.2	0.6	1.2
Insoluble solids	grams per square metre per month	12	12	0.4	1.7	6.1

NOTE: Annual Average of 4.8 for Insoluable Solids recorded in July 15. This was caused by roadworks in the area – road was fully removed and re-sealed. Annual Average of 4.1 recorded in August 2015 due to same reasoning. Annual Average dropped back to 3.2 in September 2015.

Monitoring Point 13

Dust Monitoring, Dust gauge located at Dendrobium Colliery Surface, labelled as "Point 13" in the map titled "Figure 1 - Air Quality Monitoring Sites" submitted to the EPA on 15/9/09.

Pollutant	Unit of measure	No. of samples required by licence	No. of samples you collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Ash	grams per square metre per month	12	12	0.2	0.6	1.5
Combustible solids	grams per square metre per month	12	12	0.2	0.4	1.0
Insoluble solids	grams per square metre per month	12	12	0.4	1.0	2.2

Monitoring Point 17

Dust Monitoring, Dust gauge located at 206 Cordeaux Road, Mt Kembla, labelled as "Point 17" in the map titled "Figure 1 - Air Quality Monitoring Sites" submitted to the EPA on 15/9/09.

Pollutant	Unit of measure	No. of samples required by licence	No. of samples you collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Ash	grams per square metre per month	12	12	0.2	0.5	1.7
Combustible solids	grams per square metre per month	12	12	0.2	0.4	1.0
Insoluble solids	grams per square metre per month	12	12	0.4	0.9	2.5

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Monitoring Point 18

Dust Monitoring, Dust gauge located at Kemira Valley Coal Loading Facility at the bins, labelled as "Point 18" in the map titled "Figure 1 - Air Quality Monitoring Sites" submitted to the EPA on 15/9/09.

Pollutant	Unit of measure	No. of samples required by licence	No. of samples you collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Ash	grams per square metre per month	12	11*	0.3	0.6	0.9
Combustible solids	grams per square metre per month	12	11	0.4	1.2	2.0
Insoluble solids	grams per square metre per month	12	11	0.8	1.8	2.6

*Dust deposition gauge was found to be broken when being collected

Monitoring Point 20

Ambient Air Monitoring, Hi-Vol sampler located at Kemira Valley Coal Loading Facility labelled as "Point 20" in the map titled "Figure 1 - Air Quality Monitoring Sites" submitted to the EPA on 15/9/09.

Pollutant	Unit of measure	No. of samples required by licence	No. of samples you collected and analysed	Lowest sample value	Mean of sample	Highest sample value
PM10	micrograms per cubic metre	12	12	<0.1	13.3	27.2
Total suspended particles	micrograms per cubic metre	12	12	7.9	26.8	48.0

Monitoring Point 21

Ambient Air Monitoring, Hi-Vol sampler located at Dendrobium Surface, labelled as "Point 21" in the map titled "Figure 1 - Air Quality Monitoring Sites" submitted to the EPA on 15/9/09.

Pollutant	Unit of measure	No. of samples required by licence	No. of samples you collected and analysed	Lowest sample value	Mean of sample	Highest sample value
PM10	micrograms per cubic metre	12	12	<0.1	18.9	51.2
Total suspended particles	micrograms per cubic metre	12	12	13.2	37.3	68.1

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B3 Volume or Mass Monitoring Summary

For each monitoring point identified in your licence complete the details of the volume or mass monitoring indicated in the tables provided below.

If volume or mass monitoring is not required by your licence, no tables will appear below.

Note that this does not exclude the need to conduct appropriate concentration monitoring of assessable pollutants as required by load-based licensing (if applicable).

Monitoring Point 24

Volume Monitoring

Unit of measure	Frequency	No. of measurements made	Lowest result	Mean result	High result
megalitres per day	Continuous	continuous	2.05	6.95	9.03

Monitoring Point 25

Volume Monitoring

Unit of measure	Frequency	No. of measurements made	Lowest result	Mean result	High result
megalitres per day	Continuous	continuous	0.00	0.69	3.07



C Statement of Compliance - Licence Conditions

C1 Compliance with Licence Conditions

(I the boxes)

1	Were all conditions of the licence complied with (including monitoring and reporting requirements)?	□ Yes	⊠ No	
	(✓ a box)			

2 If you answered 'No' to question 1, please supply the following details for each non-compliance in the format, or similar format, provided on the following page.

Please use a separate page for each licence condition that has not been complied with.

- a) What was the specific licence condition that was not complied with?
- b) What were the particulars of the non-compliance?
- c) What were the date(s) when the non-compliance occurred, if applicable?
- d) If relevant, what was the precise location where the non-compliance occurred?

Attach a map or diagram to the Statement to show the precise location.

- e) What were the registration numbers of any vehicles or the chassis number of any mobile plant involved in the non-compliance?
- f) What was the cause of the non-compliance?
- g) What action has been, or will be, taken to mitigate any adverse effects of the non-compliance?
- h) What action has been, or will be, taken to prevent a recurrence of the non-compliance?
- 3. How many pages have you attached?

Each attached page must be initialled by the person(s) who signs Section G of this Annual Return

3

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C2 Details of Non-Compliance with Licence

Licence condition number not complied with

L2.4 Water and/or Land Concentration Limits

Summary of particulars of the non-compliance (NO MORE THAN 50 WORDS)

Point 5 Oil and Grease result over EPL 100 Percentile Limit

If required, further details on particulars of non-compliance

EPL limit is 10 mg/L, result was 12 mg/L

Date(s) when the non-compliance occurred, if applicable

23/7/15

If relevant, precise location where the non-compliance occurred (attach a map or diagram)

글 영화 2014년 - 신

Point 5, Marley Place, Unanderra

If applicable, registration numbers of any vehicles or the chassis number of any mobile plant involved in the non-compliance

N/A

Cause of non-compliance

Issues with ALS reporting high samples for a number of Illawarra Coal water samples during the July/August period. No observed change to site processes.

Action taken or that will be taken to mitigate any adverse effects of the non-compliance

Samples taken before and after non-compliance were within the limits for oil and grease.

Action taken or that will be taken to prevent a recurrence of the non-compliance

Samples will be taken earlier in the month to allow for further investigations prior to the end of the month.

MBR- 1

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C2 Details of Non-Compliance with Licence



Licence condition number not complied with

M2.2 Air Monitoring Requirements

Summary of particulars of the non-compliance (NO MORE THAN 50 WORDS)

Sampling of Point 6 required monthly. Only 11 samples collected.

If required, further details on particulars of non-compliance

Dust deposition gauge was found to be broken when being collected for April sample.

Date(s) when the non-compliance occurred, if applicable

April 2016

If relevant, precise location where the non-compliance occurred (attach a map or diagram)

Point 6, O'Brien's Road, Figtree

If applicable, registration numbers of any vehicles or the chassis number of any mobile plant involved in the non-compliance

N/A

Cause of non-compliance

Dust deposition gauge was found to be broken when being collected for April sample.

Action taken or that will be taken to mitigate any adverse effects of the non-compliance

All other dust monitoring within limits. No adverse effects of non-compliance.

Action taken or that will be taken to prevent a recurrence of the non-compliance

Process of placing Dust Deposition Gauge in holder has been altered to reduce likelihood of breakages.

MBR. WH

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C2 Details of Non-Compliance with Licence

Licence condition number not complied with

M2.2 Air Monitoring Requirements

Summary of particulars of the non-compliance (NO MORE THAN 50 WORDS)

Sampling of Point 18 required monthly. Only 11 samples collected.

If required, further details on particulars of non-compliance

Sample bottle was broken prior to being analysed.

Date(s) when the non-compliance occurred, if applicable

June 2016

If relevant, precise location where the non-compliance occurred (attach a map or diagram)

Point 18, Kemira Valley Coal Loading Facility.

If applicable, registration numbers of any vehicles or the chassis number of any mobile plant involved in the non-compliance

N/A

Cause of non-compliance

Sample bottle was broken prior to being analysed.

Action taken or that will be taken to mitigate any adverse effects of the non-compliance

All other dust monitoring within limits. No adverse effects of non-compliance.

Action taken or that will be taken to prevent a recurrence of the non-compliance

Transportation method for sample bottles altered to reduce likelihood of breakages.



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D Statement of Compliance - Load-Based Fee Calculation Worksheets

If you are not required to monitor assessable pollutants by your licence, no worksheets will appear below. Please go to Section E.

If assessable pollutants have been identified on your licence (see licence condition L2), complete the following worksheets for each assessable pollutant to determine your load-based fee for the licence fee period to which this Annual Return relates.

Loads of assessable pollutants must be calculated using any of the methods provided in the EPA's Load Calculation Protocol for the relevant activity. A Load Calculation Protocol would have been sent to you with your licence. If you require additional copies you can download the Protocol from the EPA's website or you can contact us on telephone 02 9995 5700.

You are required to keep all records used to calculate licence fees for four years after the licence fee was paid or became payable, whichever is the later date.

PENALTIES APPLY FOR SUPPLYING FALSE OR MISLEADING INFORMATION

D1 - D8 (Not Applicable)



E Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan (PIRMP) Under Section 153A of the POEO Act 1997

1 Have you prepared a PIRMP as required under s153A of the Protection of the Environment Operations Act 1997?

	(✓ a box)		⊠ Yes	□No			
lf y	ou answered 'Yes' to question 1, pl	ease tick the appropriate box to ir	idicate the following:				
2	Is the PIRMP available at the pren	nises?					
	(✓ a box)		⊠ Yes	□No			
3	Is the PIRMP available in a promi	nent position on a publicly access	ible web site?				
	(✓ a box)		⊠ Yes	□No			
	If the PIRMP is available on a publicly accessible web site please indicate clearly below the address of the web site where the PIRMP can be accessed:						
We	b site Address http://www.south	32.net/getmedia/621c5a9b-ceb3-	48e4-b23c-12999f876a21/	South32Web			
4	Has the PIRMP been tested in the	e last 12 months?					
	(✓ a box)		☑ Yes	□No			
lf y	ou answered 'Yes' to question 4 pla	ease indicate clearly below the da	te that the PIRMP was last	tested:			
Th	e PIRMP was last tested on	03 / 07 / 2015					
5	Has the PIRMP been updated?						
	(✓ a box)		□ Yes	⊠No			
lf y	ou answered 'Yes' to question 5 ple	ease indicate clearly below the da	te that the PIRMP was last	updated:			
The	e PIRMP was last updated on	//]				
6	How many times has the PIRMP I	peen activated in this reporting pe	riod?	0			
lf ti	ne PIRMP has been activated, plea	se indicate clearly below the date/	s when the PIRMP was act	ivated:			
Th	PIRMP was activated on	//					
The	e EPA's guidelines for preparation of	of pollution incident response man	agement plans are availabl	eat			

http://www.epa.nsw.gov.au/legislation/20120227egpreppirmp.htm



F Statement of Compliance - Requirement to Publish Pollution Monitoring Data Under Section 66(6) of the POEO Act 1997

1 Are there any conditions attached to your licence that require pollution monitoring to be undertaken? (✓ a box) ☑ Yes **D**No If you answered 'Yes' to question 1, please tick the appropriate box to indicate the following: Do you operate a web site? 2 $(\checkmark a box)$ ☑ Yes DNo Is the pollution monitoring data published on your web site in accordance with the EPA's written 3 requirements for publishing pollution monitoring data? (✓ a box) ☑ Yes **□**No If you publish pollution monitoring data on a web site please indicate clearly below the address of the web site where the pollution monitoring data can be accessed: Web site address http://www.south32.net/our-operations/australia/illawarra-coal/regulatory-document

The EPA's written requirements for publishing pollution monitoring data are available at http://www.epa.nsw.gov.au/legislation/20120263reqpubpmdata.htm

Note - if you do not maintain a web site, you must provide a copy of any monitoring data that relates to pollution, to any person requests a copy of the data at no charge to the person requesting the data.



G Statement of Compliance - Environmental Management Systems and Practices

1	Do you have an environmental management system (EMS) certified to IS0 14001	1 or anv o	ther
	demonstrated equivalent system ¹ ? (see note below on demonstrated equivalent)		
	(✓ a box) ☑	I Yes	DNo
	your answer to question 1 is 'No', please proceed to question 5. If your answer to qu oceed to question 2.	uestion 1	is 'Yes', please
2	When was the last check of the EMS ² completed (see note below on check of EM	/IS)?	21 / 07 / 2014
3	Were there any non-conformances related to environmental issues identified in the	ne last ch	eck of the EMS?
	(✓ a box) E] Yes	⊠No
4	If there were non-conformances identified, were these non-conformances rectified	d?	
	(✓ a box)] Yes	□No
pl sy qu	you answered 'No' to question 1, please answer questions 5 - 11. If you answered lease proceed to section H. Questions 5-11 relate to any documented environmenta stems in place. Refer to http://www.epa.nsw.gov.au/licensing/EMCP.htm for guidan uestions 5 to 11. If unsure of the answer, tick No.	al practice nce on ho	s, procedures and w to complete
5	Have you conducted an assessment of your activities and operations to identify the potential to cause environmental impacts and implemented operational controls to		
	(✓ a box)	I Yes	□No
6	Have you established and implemented an operational maintenance program, incl maintenance?	luding pre	wentative
	(✓ a box)	Yes	□No
7	Do you keep records of regular inspections and maintenance of plant and equipme	ent?	
	(✓ a box)	l Yes	□No
8	Do you conduct regular site audits to assess compliance with environmental legal assess conformance to the requirements of any documented environmental practic systems in place?		
	(✓ a box) □	Yes	□No
9	Are the audits of documented environmental practices, procedures and systems u party?	Indertake	n by a third
	(✓ a box)	Yes	□No
10	Have you established and implemented an environmental improvement or manage	ement pla	n?
	(✓ a box) □	Yes	□ No
11	Do you train staff in environmental issues that may arise from your activities and op of this	perations	and keep records

¹ Demonstrated equivalent refers to an environmental management system that the EPA considers is equivalent to the accountability, procedures, documentation and record keeping requirements of an ISO 14001 system. For further information go to:

http://www.epa.nsw.gov.au/resources/licensing/150402-environmental-management-systems-guidelines.pdf ² Undertaking a 'check of an EMS' refers to the ISO 14001 requirements that an organisation demonstrates conformity to the requirements of its EMS and to the standard, these checks require third-party certification that requirements have been met.



H Signature and Certification

This Annual Return may only be signed by a person(s) with legal authority to sign it as set out in the categories below. Please tick (\checkmark) the box next to the category that describes how this Annual Return is being signed.

If you are uncertain about who is entitled to sign or which category to tick, please contact us on telephone 02 9995 5700.

If the licence holder is:	the Annual Return must be signed and certified by one of the following:
an individual	 the individual licence holder, or a person acting on behalf of the individual licence holder in accordance with a power of attorney for the individual. A copy of the power of attorney must be submitted with the Annual Return.
a company	 by two directors, or by a director and a company secretary, or if a proprietary company that has a sole director who is also the sole company secretary - by that director, or by a person delegated to sign a copy of the Annual Return on the company's behalf in accordance with the Corporations Act 2001. Delegation of authority must be submitted with the Annual Return, or. by affixing the common seal, in accordance with the Corporations Act 2001
a public authority other than a Council	 by the Chief Executive Officer of the public authority, or by a person delegated to sign on the public authority's behalf in accordance with its legislation.
a local Council	 by the General Manager in accordance with s377 of the Local Government Act 1993, or by affixing the seal of the Council in a manner authorised under the Local Government Act 1993.

It is an offence to supply any information in this form that is false or misleading in a material respect, or to certify a statement that is false or misleading in a material respect. There is a maximum penalty of \$250,000 for a corporation or \$120,000 for an individual.

l/We

- declare that the information in the Monitoring and Complaints Summary in section B of this Annual Return is correct and not false or misleading in a material respect, and
- certify that the information in the Statement of Compliance in sections A, C, D, E, F and G and any
 pages attached to Section C is correct and not false or misleading in a material respect.

If your licence has been transferred, suspended, surrendered or revoked by the EPA during this reporting period, cross out the dates below and specify the new dates to which this Annual Return relates below:

For the reporting period 01-Jul-2015 to 30-Jun-2016	or// to/_/
SIGNATURE: 1/M. Mall Him	SIGNATURE:
NAME: (printed) MICHAEL RIX	NAME: (printed) MICHAR ME
POSITION: DIRECTOR	POSITION: DIRECTOR
DATE: 22,08,2016	DATE: 22 1 08 1 2016

SEAL(if signing under seal)

PLEASE ENSURE THAT ALL APPROPRIATE BOXES HAVE BEEN COMPLETED AND THAT THE CHECKLIST ON PAGE 2 OF THE ANNUAL RETURN HAS BEEN COMPLETED

APPENDIX B CCL768 Rehabilitation Cost Calculation



Site Registration

Complete the follow	ving fields prior to calculating the security bond.
Mine Name:	Dendrobium Mine and Cordeaux Colliery
Lease(s)	CCL 768
Mine Owner	Illawarra Coal Holdings Pty Ltd, ABN 69 093 857 286
Mine Operator	Illawarra Coal Holdings Pty Ltd, ABN 69 093 857 286
Expiry of MOP	30/9/2015
Current Security	\$9,982,014 Date of last Security Bond review Aug-14
Mine Contact	Peter McMillan
Position	Environment and Community Supervisor
Address	South32 Illawarra Coal Regional Operations Centre Level 3 Enterprise 1 Innovation Campus Squires Way North Wollongong NSW 2500 Postal Address: PO Box 514 Unanderra, NSW, 2526
Phone	(02) 4286 3200 e-mail Peter.McMillan@south32.net
Site Descri	ption
	-

The following site specific information is requested to provide background information in the context of calculating the security bond.

Summary of Mine Activities		Environmental Sensitivities
Total annual production (tonnes):	5.2 Million ROM	Surrounding land use (tick all that apply):
Mine lease area (ha):	18767	Cropping
Area of extraction (ha):	N/A	✓ Pasture
Area of disturbance (ha):	19.4	✓ Forest
		✓ Urban
Rehabilitation in progress (ha):	0	
Rehabilitation complete (ha):	0	Environmental Issues affecting site (tick all that apply)
Estimate based on Plan(s):	MOP	Threatened flora
include version and date		Threatened fauna
		Cultural heritage items
Plan(s) outlining Domain Areas include version and date	See MOP	Natural heritage features
		Mine subsidence
		Surface water pollution
		Ground water pollution
NOTE:	n roflacta all anvironmental	Hydrocarbon contamination

Ensure rehabilitation cost calculation reflects all environmental issues affecting the lease. Contingencies should be allocated where costs have Hydrocarbon contamination

Methane drainage/venting

not been incorportated elsewhere in the estimation.

Spontaneous combustion

🗌 Acid Mine Drainage

Vithin drinking water catchment

C Other (describe below)



Department of Primary Industries Mineral Resources - Environment Branch Rehabilitation Cost Calculation Spreadsheet Certified Correct:_____(initial) CCL768 Rehabilitation-Cost-Calculation-Tool_August 2015_With MobDemobCost (2)_2 Registration



Summary Rehabilitation Cost Calculation

Note: Sections of this page are automatically filled in from the registration page

Mine Name:	Dendrobium Mine and Cordeaux Colliery
Lease(s):	CCL 768
Mine Owner:	Illawarra Coal Holdings Pty Ltd, ABN 69 093 857 286
Mine Operator:	Illawarra Coal Holdings Pty Ltd, ABN 69 093 857 286
Expiry of MOP:	30/9/2015
Current Security:	\$9,982,014 Date of Last Security Bond Review: Aug-14
Mine Contact:	Peter McMillan
Position:	Environment and Community Supervisor
Address:	South32 Illawarra Coal Regional Operations Centre Level 3 Enterprise 1 Innovation Campus Squires Way North Wollongong NSW 2500 Postal Address: PO Box 514 Unanderra, NSW, 2526
Phone:	(02) 4286 3200 email: Peter.McMillan@south32.net

Domain	Security Deposit
Domain 1: Dendrobium Mine Site	\$1,579,276.29
Domain 2: Kemira Valley Coal Loading Facility (East)	\$2,562,392.32
Domain 3: Vent Shaft 1	\$341,111.86
Domain 4: O'Briens Drift	\$585,156.12
Domain 5: Cordeaux Pit Top	\$3,277,087.63
Domain 6: Corrimal No. 3 Shaft and Bins	\$251,391.42
Sub-Total (Domains and Sundry Items)	\$8,596,415.63
Contingency	
Third Party Project Management	
Total Security Deposit for the Mining Project (excl. of GST)	\$8,596,415.63

Note: GST is not included in the above calculation or as part of rehabilitation security deposits required by the Department

Alterations have been made to unit prices within this spreadsheet. (Attach a separate sheet providing details of changes)

The proposed rehabilitation design is generally consistent with the development consent for the project

This Registration Form, Summary Report and calculation pages are to be printed and attached as an appendix the AEMR.

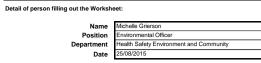
This mine security calculation has been estimated using the best available information at the time. It is a true and accurate reflection of the total rehabilitation liability held by this mine.

Signature General Manager	Print Name	Date:	
Signature Accepted: DRE Reporting Officer	Print Name	Date:	

CCL768 Rehabilitation-Cost-Calculation-Tool_August 2015_With MobDemobCost (2)_2

Domain 1: Dendrobium Mine Site

Sub Domain 1: Infrastructure Areas



Legend:

Item fixed no entry required Input from site optional (if information available) Input mandatory

Management Precinct	Activity / Description	Quantity	Unit	Unit Price	Total Cost	Description / Notes:
Pit Top Infrastructure	Disconnect and terminate services	1	@	\$31,933.23	\$31,933.23	This item includes disconnecting and terminating all services such as power, water and sewer. It is a "one off" cost
	Disconnect and terminate powerlines		km	\$14,050.62	\$0.00	This item includes the cost to terminate and remove powerlines, and is based on the average cost to construct.
	Demolish and remove small buildings		m ²	\$89.41	\$0.00	Enter the total area of small buildings and offices in the area. It should not include demountables which
	Demolish and remove industrial buildings	1898	m ²	\$204.37	\$387,899.33	can be removed from site. It does not include workshoos. Enter the total area of workshop facilities in thearea.
	Demolish and remove Misc Plants	485	m²	\$204.37	\$99,120.75	Enter the total surface area of the Pit Top. If the Pit Top is multi-story the entry should be the sum of the
	Demolish and remove conveyors & gantries (includes		m	\$70.25	\$0.00	surface area for all floors. Enter the sum of the total length of conveyor and gantries. This includes conveyor to rail load out areas of conveyor from hoppers feeding back to the.
	overland conveyors) Remove Concrete pads and Footings	36153	m ²	\$12.77	\$461,792.82	Enter the total area the Pit Top, workshops and buildings.
	Deconstruct Large Tanks (e.g. Thickener)		@	\$191,599.38	\$0.00	Enter the number of tanks to be removed from the site.
	Deconstruct Small Tanks (e.g.Thickener) Remove carbonaceous material (spillage or otherwise)		@	\$60,883.94 \$3.32	\$0.00 \$0.00	Enter the number of tanks to be removed from the site. Enter the total volume (ie. area x depth of material) to be scalped off for disposal.
	from footprint of the CHPP, ROM & Product stockpiles,		m ³	\$3.3Z	\$0.00	UNIT RATE: Depends on the haulage distance to the point where the material is to be disposed.
	conveyors and workshops Final trim, rock rake & deep rip	3.6	На	\$638.66	\$2,299.19	This item includes the areas requiring minor reshaping, rock raking and deep ripping to enhance
	Source, cart and spread topsoil.	10,846	m ³	\$1.53	\$16,624.54	revegetation program. This would include the entire pit too area. This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the pit top area
	bouroo, ouri ana oproda topoon.	10,040		\$1.00	\$10,024.04	IC Comment - Assume 0.3m depth of topsoil
	Spoil amelioration and supply and spread seed and fertiliser.	3.6	На	\$4,726.12	\$17,014.02	This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser
		Precinct Secur	ity Depos	sit	\$1,016,683.89	
Rail Line and Loop	Remove Rail Loop and spur		m	\$7.66	\$0.00	This item includes the pulling up and removal from site of railway line and sleepers. Calculated as a lineal metre
	Reshape rail spur and load out area		На	\$6,386.65	\$0.00	This item includes the areas requiring reshaping once the rail line, sleepers and ballast has been removed.
	Final trim, rock rake & deep rip		На	\$638.66	\$0.00	This item includes the area requiring minor reshaping, rock raking and deep ripping (only as required) to enhance revegetation program
	Spoil amelioration and supply and spread pasture seed and fertiliser.		На	\$4,726.12	\$0.00	This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser
		Precinct Secur	ity Depos	sit	\$0.00	addanaar a. Braan aana arra arranaar
Main Workshop Area	Disconnect and terminate services		@	\$6,386.65	\$0.00	This item includes disconnecting and terminating all services such as power, water and sewer. It is a "one off" cost.
						IC Comment - Covered above under Pit Top Infrastructure
	Demolish and remove small buildings		m²	\$89.41	\$0.00	Enter the total area of small buildings and offices in the workshop area. It should not include demountables which can be removed from site. It does not include workshops.
	Demolish and remove industrial buildings	1020	m ²	\$204.37	\$208,460.12	Enter the total area of workshop facilities in the area. Include all remote or field based workshop areas.
	Remove Concrete pads, Footings and bitumen (car	455	m ²	\$12.77	\$5,811.85	Enter the total area the workshops and buildings. Include the area of any bitumen car parks (or similar). It would also include vehicle washdown pads, bulk fuel bunding area and refuelling areas (i.e. all concrete
	park) for dumping in a void on the site					would also include vehicle washdown pads, bulk fuel bunding area and refuelling areas (i.e. all concrete areas in the workshop precinct).
						IC Comment: Excludes workshop buildings as this was covered in Pit Top infrastructure
	Remove contaminated material from workshop and hardstand areas for disposal in the decline void	91	m ³	\$2.55	\$232.47	 Enter the total volume (ie. area x depth of material) to be scalped off for disposal. UNIT RATE: Depends on the haulage distance to the point where the material is to be disposed.
	AND/OR					IC Comment - Assume 0.2m depth of material
	Reshaping, capping, sealing of material presenting environmental difficulties (AMD, Hydrocarbon material,		На	\$57,479.81	\$0.00	Enter the total area of material requiring capping or sealing. Where assessments have already been made and the presence/absence of contaminated material is know
	etc)					(and quantified) an alternative rate can be used. If this work has not been undertaken, a de
	Removal of UG tank (including pipes, bunds, etc)		@	\$95,799.69	\$0.00	A default rate per UGT is to be utilised.
	(include all facilities on site)			\$63.87	\$0.00	where an assessment of the volume of contaminated soil has been made this volume is to be included.
	On site remediation of contaminated soil (<1000m ³)		m³	φ03.87	φ υ. υθ	Where the volume in not known or has not been quantified a default volume of 3000m ³ per fuel storage
						facility is to be used in cell C:37.
	On site remediation of contaminated soil (1000-		m ³	\$51.09	\$0.00	where an assessment of the volume of contaminated material has been made this volume is to be included.
	10,000m ³)					Where the volume in not know or has not been quantified a default volume of 3000m ³ per fuel storage facility is to be used.
	On site remediation of contaminated soil (>10,000m ³)		m ³	\$38.32	\$0.00	where an assessment of the volume of contaminated soil has been made this volume is to be included.
	,,					Where the volume in <u>not known</u> or has not been quantified a default volume of 3000m ³ per fuel storage facility is to be used in cell C:37
	Final trim, rock rake & deep rip		На	\$638.66	\$0.00	This item includes the area requiring minor reshaping, rock raking and deep ripping (only as required) to enhance revegetation program
						IC Comment - Covered above in Pit Top Infrastructure
	Source, cart and spread topsoil.		m ³	\$1.53	\$0.00	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the workshop area. IC Comment - Covered above in Pit Top Infrastructure
	Spoil amelioration and supply and spread seed and		На	\$4.726.12	\$0.00	This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the
	fertiliser.		па	\$4,720.12	\$0.00	application of grass seed and fertiliser
		Desident Original			401150115	IC Comment - Covered above in Pit Top Infrastructure
Admin Buildings	Disconnect and terminate services	Precinct Secur 1	aty Depos	\$6,386.65	\$214,504.45 \$6,386.65	This item includes disconnecting and terminating all services such as power, water and sewer. It is a "one
					+-,	off" cost
	Demolish and remove small buildings	838	m²	\$89.41	\$74,928.13	Enter the total area of small buildings and offices in the admin area. It should not include demountables which can be removed from site. It does not include workshops.
	Demolish and remove industrial buildings		m ²	\$204.37	\$0.00	Enter the total area of workshop facilities in the admin area.
	Remove Concrete pads, Footings and bitumen (car		m ²	\$12.77	\$0.00	Enter the total area the workshops and buildings. Include the area of any bitumen car parks (or similar)
	park)			Q12.77	\$0.00	IC Comment - Covered above in Pit Top Infrastructure
	Final trim, rock rake & deep rip			\$638.66	\$0.00	This item includes the area requiring minor reshaping, rock raking and deep ripping (only as required) to
	нпантпп, госк гаке & deep пр		На	\$638.66	\$0.00	Inis item includes the area requiring minor resnaping, rock raking and deep ripping (only as required) to enhance revegetation program
	0			\$1 50		IC Comment - Covered above in Pit Ton Infrastructure
	Source, cart and spread topsoil.		m ³	\$1.53	\$0.00	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the admin area.
						IC Comment - Covered above in Pit Top Infrastructure
	Spoil amelioration and supply and spread pasture seed and fertiliser.		На	\$4,726.12	\$0.00	Enter the total area of the admin, etc footprint requiring to be covered with fertiliser (and/or lime & gypsum) prior to seeding
						UNIT RATE: Depends the required rehabilitation commitment (ie. Trees will be more expensive than grass) IC Comment - Covered above in Pit Top Infrastructure
		Precinct Secur	ity Depos	sit	\$81,314.78	
Access Roads & Haul Roads	Remove carbonaceous material from roadways (coal /	2285.2	m ³	\$3.32	\$7,589.28	Enter the total volume (ie. area x depth of material) to be scalped off for disposal. UNIT RATE: Depends on the haulage distance to the point where the material is to be disposed.
	rejects spillage)		L la	60 000 0F	** **	
	Reshape deep rip and ameliorate sealed / unsealed roads		На	\$6,386.65	\$0.00	Enter the total area of the road footprint requiring to be covered with fertiliser (and/or lime & gypsum) prior to seeding
						UNIT RATE: Depends the required rehabilitation commitment (ie. Trees will be more expensive than grass) IC Comment - Covered above in Pit Top Infrastructure
	Source, cart and spread topsoil.		m ³	\$1.53	\$0.00	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the access roads &
						haul roads. IC Comment - Covered above in Pit Top Infrastructure
	Spoil amelioration and supply and spread seed and fertiliser.		На	\$4,726.12	\$0.00	This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser
						IC Comment - Covered above in Pit Top Infrastructure
Paularene /Illine	Disconnect and terminate and terminate	Precinct Secur	ity Depos		\$7,589.28	
Sewerage / Water Treatment Plant	Disconnect and terminate services		S.	\$3,193.32	\$0.00	This item includes disconnecting and terminating all services such as power, water and sewer. It is a "one off" cost
	Demolish and screen and the state	150		000 11	A10 / 1 = 0	IC comment - Covered under Pit Top infrastructure
	Demolish and remove small buildings / tanks	452	m ²	\$89.41	\$40,414.70	Enter the total area of small buildings and tanks.
	Remove contaminated material from areas for disposal (ie. chemical spillage in / around storage sheds).		m ³	\$2.55	\$0.00	Enter the total volume (ie. area x depth of material) to be scalped off for disposal. UNIT RATE: Depends on the haulage distance to the point where the material is to be disposed.
			11-	8000.05	ê0	
	Final trim, rock rake & deep rip		На	\$638.66	\$0.00	This item includes the area requiring minor reshaping, rock raking and deep ripping (only as required) to enhance revegetation program
	Source, part and encoding on "		. 3	64.50	\$0 \$ \$	IC comment - Covered under. Pit Top infrastructure
	Source, cart and spread topsoil.		m ³	\$1.53	\$0.00	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the sewerage / water treatment plant.
	Spoil amelioration and supply and spread seed and		На	\$4,726.12	\$0.00	IC comment - Covered under. Pit Top infrastructure This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the particular of transport of the fitter of th
	fertiliser.	Description				application of grass seed and fertiliser IC comment - Covered under. Pit Too infrastructure
Hardstand /Laydown Areas (across	Remove contaminated material from areas for disposal	Precinct Secur 2017.6	ity Depos m ³	sit \$2.55	\$40,414.70 \$5,154.28	Enter the total volume (ie. area x depth of material) to be scalped off for disposal.
the entire site)	(ie. chemical/hydrocarbon spillage in the hard stand	2011.0		¢2.00	40,.04i20	UNIT RATE: Depends on the haulage distance to the point where the material is to be disposed. IC Comment: assuming depth of 0.2m
	area). Deep rip hard stand / laydown areas	1.00	На	\$638.66	\$638.66	IC Comment: assuming depth of 0.2m This item includes ripping hard stand and lay down areas to enhance the rehabilitation program.
				110.00		IC Comment: Includes all Hardstand Areas and Storage Areas
	Source, cart and spread topsoil.		m ³	\$1.53	\$0.00	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the hard stands and lay down areas
						C comment - Covered under Pit Tro infrastructure
	Spoil amelioration and supply and spread seed and		На	\$4,726.12	\$0.00	IC comment - Covered under Pit Ton intrastructure This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the apolication of grass seed and fertiliser
	fertiliser.					application of grass seed and fertiliser
		Precinct Secur			\$5,792.94	
Underground Infrastructure	Seal Portal / Decline Entry	1	@	\$28,101.24	\$28,101.24	This includes sealing the portal to make safe and ensure access can not be obtained. The number of portals for the whole mine is to be included
	Seal & rehabilitate of ventilation fans.		@	\$31,933.23	\$0.00	This includes sealing & rehabilitation of the ventilation fans to make safe. The number of ventilation fans for the whole mine is to be included
						IC Comment: To be included in Vent Shaft 1 and Vent Shaft 283
		600	m ³	\$24.35	\$14,612.15	This includes filling of shafts using onsite material. This includes filling of shafts using onsite material. IC comment - Assumed shaft diameter of 6m and 100m depth of fill.
	Shaft filling		1	610 170 70	\$0.00	Simple capping/sealing to DRE standards
	Ť		Ø			- · · · · · · · · · · · · · · · · · · ·
	Shaft capping/sealing	40	0	\$12,176.79		This includes sealing & rehabilitation of the downlaring bases to make ante. The total combine of
	Ť	19	8	\$12,176.79 \$3,831.99	\$72,807.76	This includes sealing & rehabilitation of the dewatering bores to make safe. The total number of dewatering bores for the whole mine is to be included.
	Shaft capping/sealing	19 300				This includes sealing & rehabilitation of the dewatering bores to make safe. The total number of dewatering bores for the whole mine is to be included. This includes capping & rehabilitation of all old Cap exploration holes around the site
	Shaft capping/sealing De-watering Bores		@	\$3,831.99	\$72,807.76	bores for the whole mine is to be included.
	Shaft capping/sealing De-watering Bores Cap exploration holes Minor earthworks and maintenance of mine subsidence		@	\$3,831.99	\$72,807.76	bores for the whole mine is to be included. This includes capping & rehabilitation of all old Cap exploration holes around the site IC Comment: Estimation from current boreholes in and around mining area This includes undertaking surface drainage works, etc as required to remediate areas affected by Mine
	Shaft capping/sealing De-watering Bores Cap exploration holes	300	@ @ Ha	\$3,831.99 \$319.33 \$1,277.33	\$72,807.76 \$95,799.69 \$0.00	bores for the whole mine is to be included. This includes capping & rehabilitation of all old Cap exploration holes around the site IC Comment: Estimation from current boreholes in and around mining area
Other	Shaft capping/sealing De-watering Bores Cap exploration holes Minor earthworks and maintenance of mine subsidence		@ @ Ha	\$3,831.99 \$319.33 \$1,277.33	\$72,807.76 \$95,799.69	bores for the whole mine is to be included. This includes capping & rehabilitation of all old cge exploration holes around the site IC Comment: Estimation from current boreholes in and around mining area This includes understaining surface drainage works, etc as required to remediate areas affected by Mine subsidence (outside the jurisdiction of the mine subsidence beard) IC Comment 14/09/14 - Includes Cogeneration plant, 2-Eftlythexand plant, water cooler, compressor
Other	Shaft capping/sealing De-watering Bores Cap exploration holes Minor earthworks and maintenance of mine subsidence areas Demolish and Remove Misc Plant	300	@ Ha ity Depos	\$3,831.99 \$319.33 \$1,277.33 .it \$204.37	\$72,807.76 \$95,799.69 \$0.00 \$211,320.84 \$0.00	bores for the whole mine is to be included. This includes capping & rehabilitation of all old Cap exploration holes around the site IC Comment: Estimation from current boreholes in and around mining area This includes undertaking surface drainage works, etc as required to remediate areas affected by Mine subsidence (outside the jurisdiction of the mine subsidence board) IC Comment 14/09/14 - Inclludes Cogeneration plant, 2:Ethythexanol plant, water cooler, compressor house, gas turbine, pump house, control room and water separator, vent stack and pipelines associated with as dealnaee plant and West/MAP
Other	Shaft capping/sealing De-watering Bores Cap exploration holes Minor earthworks and maintenance of mine subsidence areas Demoish and Remove Misc Plant Remove Concrete pads and Footings	300	@ Ha Ha m ² m ²	\$3,831.99 \$319.33 \$1,277.33 it \$204.37 \$12.77	\$72,807.76 \$95,799.69 \$0.00 \$211,320.84 \$0.00 \$0.00	This includes capping & rehabilitation of all old Cap exploration holes around the site IC Comment: Estimation from current boreholes in and around mining area This includes undertaking surface drainage works, etc as required to remediate areas affected by Mine subsidence (outside the jurisdiction of the mine subsidence board) IC Comment 14/09/14 - Includes Cogeneration plant, 2-Ethythexanol plant, water cooler, compressor house, gas turbine, pump house, control room and water separator, vent stack and pipelines associated
Other	Shaft capping/sealing De-watering Bores Cap exploration holes Minor earthworks and maintenance of mine subsidence areas Demolish and Remove Misc Plant	300	@ Ha ity Depos	\$3,831.99 \$319.33 \$1,277.33 .it \$204.37	\$72,807.76 \$95,799.69 \$0.00 \$211,320.84 \$0.00	bores for the whole mine is to be included. This includes capping & rehabilitation of all old Cap exploration holes around the site IC Comment: Estimation from current boreholes in and around mining area This includes undertaking surface drainage works, etc as required to remediate areas alfected by Mine subsidence (outside the jurisdiction of the mine subsidence board) IC Comment 14/09/14 - Inclludes Cogeneration plant, 2-Ethyfhexanol plant, water cooler, compressor house, gas turbine, pump house, control room and water separator, vent stack and pipelines associated with as dealnaee plant and West/AMP
Other	Shaft capping/sealing De-watering Bores Cap exploration holes Minor earthworks and maintenance of mine subsidence areas Demolish and Remove Misc Plant Remove Concrete pads and Footings Final tim, nock rake & deep rip Source, cart and spread topsoil. Spoil amelioration and supply and spread seed and	300 Precinct Secur	@ Ha Ha m ² Ha	\$3,831.99 \$319.33 \$1,277.33 it \$204.37 \$12.77 \$638.66	\$72,807.76 \$95,799.69 \$0.00 \$211,320.84 \$0.00 \$0.00 \$0.00	bores for the whole mine is to be included. This includes capping & rehabilitation of all old Cap exploration holes around the site IC Comment: Estimation from current boreholes in and around mining area This includes undertaking surface drainage works, etc as required to remediate areas affected by Mine subsidence (outside the jurisdiction of the mine subsidence board) IC Comment 14/09/14 - Includes Cogeneration plant, 2-Ethythexanol plant, water cooler, compressor house, gas turbine, pump house, control room and water separator, vent stack and pipelines associated with as drainage plant and WestYAMP This item includes < <to added="" be="" by="" operator="" the="">></to>
Other	Shaft capping/sealing De-watering Bores Cap exploration holes Minor earthworks and maintenance of mine subsidence areas Demolish and Remove Misc Plant Remove Concrete pads and Footings Final trim, rook rake & deep rip Source, cart and spread topsoil.	300 Precinct Secur	@ Ha Ha m ² Ha m ³ Ha	\$3,831.99 \$319.33 \$1,277.33 it \$204.37 \$12.77 \$638.66 \$1.53 \$4,726.12	\$72,807.76 \$95,799.69 \$0.00 \$211,320.84 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	bores for the whole mine is to be included. This includes capping & rehabilitation of all old Cap exploration holes around the site C Comment: Estimation from current boreholes in and around mining area This includes undertaking surface drainage works, etc as required to remediate areas affected by Mine asoledince (outside the jurisdiction of the mine subsidience board) C Comment 14/09/14 - Includes Cogeneration plant, 2-Eftyfhexanol plant, water cooler, compressor house, gas turbine, pump house, control room and water separator, vent stack and pipelines associated with asa drainage plant and WatYAMP This term includes <-to be added by the operator>> C Comment 14/08/14 - Assume 0.3m of topsol

Total Security Deposit for the "Domain"

\$1,577,620.87

Sub Domain 2: Tailings & Rejects Emplacements (1)

ete a separate sheet for each tailings dam/impoundment on the site Detail of person filling out the Worksheet: Legend: Name Michelle Grierson n fixed no entry required Position Department nvironmental Officer ealth Safety Environment and Community nput from site optional (if information available) put mandatory Date 25/08/2015 Tailings Dam / Impoundment (Key Information): Materials Stored (ie. coal fines, coarse or co-disposed) Volume Stored (m3) Maximum Embankment Height (m) Maximum Embankment Length (m) Year Dam / Emplacement Commissioned Storage area (ha) Catchment Area of Tailings Dam / Emplacement (ha) Briefly describe embankment construction. (earthen, clay /rejects core, etc) Activity / Description Source, cart and spread suitable material to cap the tailings emplacement (cap thickness determined by MOP) Management Precinct Tailings Dams / Emplacements Unit Price Total Cost Description / Notes: Unit This includes sourcing, carting and spreading of a suitable volume material to cap the tailings emplacement. The material must have appropriate chemical & physical properties. m³ \$2.55 \$0.00 Apply engineered treatment as required (i.e. capping, capillary breaks, etc) - design in accordance with the MOP commitments. Reshape walls / buttress around the dam / employment - engineering -\$57,479.8 is includes the area that requires engineering treatment is required to satisfy con is may include compaction or addition of multiple layers and / or capillary breaks. \$0.00 Ha This includes the area that requires stabilisation and reshaping works around the walls of the emplacemen (i.e. removal of rills and pipes that may present long term stability issues) This item includes the area requiring minor reshaping, rock raking and deep ripping (only as required) to enhance revegation program. This item includes the area requiring earthworks (banks, & drains, etc) to manage all surface water on the too of the endacement to ensure that it is shed off the cao. This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the tailings dam / endacement \$6,386.65 На \$0.00 emplacement - earthworks only Final trim, rock rake & deep rip На \$638.66 \$0.00 Structural works, banks waterways \$1,788.26 \$0.00 На \$1.53 Source, cart and spread topsoil. m³ \$0.00 malacement. The item includes the area requiring the addition of ameliorates such as time or gypsum prior to the toplication of grass seed and fertiliser This item includes the total area of rehabilitation that has been established and requires subsequent million application. It assumes application twice on the first five (b) years after establishment Spoil amelioration and supply and spread seed and На \$4,726.12 \$0.00 fertiliser. Maintenance of rehabilitated areas (up to 5 years) \$0.00 На \$830.26 Precinct Sec ty Dep \$0.00 Oth \$0.00 \$0.00 \$0.00 **\$0.00** \$0.00 Other 1 <insert> Other 2 <insert> s item includes <<to be added by the operate is item includes <<to be added by the operate is item includes <<to be added by the operate is item includes <<to be added by the operate cinct Sec \$2.55 Source, cart and spread suitable material to cap the oarse rejects emplacement (cap thickness determine y MOP) Coarse Rejects Emplace m s includes sourcing, carting and spreading of a suitable volume material to cap the coarse rejects placement. The material must have appropriate chemical & physical properties. Apply engineered treatment as required (i.e. capping, capillary breaks, etc) - design in accordance with the MOP commitments. \$57,479.8 \$0.00 This includes the area that requires engineering treatment is required to satisfy condit This may include compaction or addition of multiple layers and / or capillary breaks. Ha IOP commitments. inal trim, rock rake & deep rip is item includes the area requiring minor reshaping, rock raking and deep ripping (only as required) to nance revealation program is item includes the area requiring earthworks (banks, & drains, etc) to manage all surface water on the of the employment to ensure the it is clead of the ensure. \$638.66 \$0.00 Ha \$1,788.26 Structural works, banks waterways \$0.00 Ha b) of the emplacement to ensure that it is shed off the cap. his includes sourcing, carting and spreading of a suitable volume of topsoil to cover the tailings dam / Source, cart and spread topsoil. \$1.53 m³ \$0.00 nplacement. his item includes the area requiring the addition of ameliorates such as lime or gyp pplication of grass seed and fertiliser Spoil amelioration and supply and sp fertiliser. ead seed and На \$4,726.12 \$0.00 nance of rehabilitated areas (up to 5 year \$0.00 item includes the total area of rehabilitation that has been established and requires subs iser application. It assumes application twice on the first five (5) years after establishme \$830.26 \$0.00 Othe Other 1 <insert: Other 2 <insert: Other 3 <insert: \$0.00 \$0.00 \$0.00 **\$0.00**

Total Security Deposit for the "Domain"

recinct Secu

\$0.00

Sub Domain 3: Overburden & Waste Dumps

Date 25/08/2015

Detail of person filling out the Worksheet

Name Position chelle Griers Environmental Officer Health Safety Environment and Community Department

em fixed no entry required nput from site optional (if information available) nput mandatory

Management Precinct	Activity / Description	Quantity	Unit	Unit Price	Total Cost	Description / Notes:
Successful Rehabilitation	Maintenance of Established Revegetated Area		На	\$830.26	\$0.00	This item includes the total area of rehabilitation that have been established and require subsequent fertiliser application. It assumes application twice on the first five (5) years after establishment
	Maintenance of Shaped Topsoiled and Seeded		На	\$830.26	\$0.00	This item includes the total area of that have been shaped, topsoiled and seeded and requires subsequent fertiliser application. It assumes application twice in the first five (5) years after establishment
		Precinct Secur	rity Depos	sit	\$0.00	
Shaped Overburden Dumps	Final trim, rock rake & deep rip		На	\$638.66	\$0.00	This item includes the area requiring minor reshaping, rock raking and deep ripping (only as required) to enhance revegetation program.
	Structural works, banks, rock lined waterways		На	\$1,788.26	\$0.00	This item includes the area requiring earthworks (banks, & drains, etc) to manage all surface water on the top of the emplacement to ensure that it is shed off the reshaped area.
	Source, cart and spread topsoil.		m ³	\$1.53	\$0.00	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the reshaped dump.
	Spoil amelioration and supply and spread seed and fertiliser.		На	\$4,726.12	\$0.00	This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser
	Maintenance of rehabilitated areas (up to 5 years)		На	\$830.26	\$0.00	This item includes the total area of that have been shaped, topsolled and seeded and requires subsequent fertiliser application. It assumes application twice in the first five (5) years after establishment
		Precinct Secur	rity Depos	sit	\$0.00	
Unshaped Overburden Dumps (minor reshaping required)	Minor pushing, final trim, rock rake & deep rip		На	\$638.66	\$0.00	This item includes the area requiring minor reshaping, rock raking and deep ripping (only as required) to enhance revecetation program
(Structural works, banks, rock lined waterways		На	\$1,788.26	\$0.00	This item includes the area requiring earthworks (banks, & drains, etc) to manage all surface water on the top of the emplacement to ensure that it is shed off the reshaped area.
	Source, cart and spread topsoil.		m ³	\$1.53	\$0.00	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the reshaped dump.
	Spoil amelioration and supply and spread seed and fertiliser.		На	\$4,726.12	\$0.00	This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser
	Maintenance of rehabilitated areas (up to 5 years)		На	\$830.26	\$0.00	This item includes the total area of that have been shaped, topsolied and seeded and requires subsequent fertiliser application. It assumes application twice in the first five (5) years after establishment
		Precinct Secur	rity Depos	sit	\$0.00	
Unshaped Overburden Dumps (major earthworks required)	Major bulk pushing to achieve grades nominated in the MOP (i.e. $< 18^{\circ}$)		m ³	\$1.41	\$0.00	This item includes the volume requiring major reshaping, rock raking and deep ripping (only as required) to enhance revegetation program
	Structural works, banks, rock lined waterways		На	\$1,788.26	\$0.00	This item includes the area requiring earthworks (banks, & drains, etc) to manage all surface water on the top of the emplacement to ensure that it is shed off the cap.
	Source, cart and spread topsoil.		m ³	\$1.53	\$0.00	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the reshaped dump.
	Spoil amelioration and supply and spread seed and fertiliser.		На	\$4,726.12	\$0.00	This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser
	Maintenance of rehabilitated areas (up to 5 years)		На	\$830.26	\$0.00	This item includes the total area of that have been shaped, topsoiled and seeded and requires subsequent fertiliser application. It assumes application twice in the first five (5) years after establishment
		Precinct Secur	rity Depos	sit	\$0.00	
Other	Other 1 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 2 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 3 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
		Precinct Secur	rity Depos	sit	\$0.00	

Legend:

Total Security Deposit for the "Domain"

Sub Domain 4: Surface Disturbance

Detail of person filling out the Worksheet:

Name Position Department Date

	_	-

David Gregory
Specialist Environment - Land & Biodiversity
Health Safety Environment
29/09/14

Management Precinct	Activity / Description	Quantity	Unit	Unit Price	Total Cost	Description / Notes:
Initial Boxcuts & Other Voids	Drill & Blast Highwall					This item includes the total area of rehabilitation that have been established and require subsequent
			m ³	\$0.89	\$0.00	fertiliser application. It assumes application twice on the first five (5) years after establishment UNIT RATE: drill & blast + dozer push
	Major bulk pushing of the high wall are to achieve					This item includes the volume requiring major reshaping, rock raking and deep ripping (only as required) to
	grades nominated in the MOP (i.e < 18°)		m ³	\$1.41	\$0.00	enhance revegetation program UNIT RATE: dozer push rate
	Final trim, rock rake & deep rip		На	\$638.66	\$0.00	This item includes the area requiring minor reshaping, rock raking and deep ripping (only as required) to enhance revegetation program
	Source, cart and spread topsoil (at 20cm)		m ³	\$1.53	\$0.00	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the reshaped areas
	Spoil amelioration and supply and spread pasture seed and fertiliser.		На	\$4,726.12	\$0.00	This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser
	Security Fence around steep section highwall		m	\$63.87	\$0.00	This item includes the erection of a 2m security fence (lineal metre) around the void and other dangerous areas
	High wall treatment - (trench + safety berm)		m	\$73.45	\$0.00	This item includes the construction of a safety berm and rill (lineal metre) around the highwall to stop all vehicles, etc accidentally driving over haul road (engineered control).
		Precinct Secur	ity Depos	it	\$0.00	
Disturbance ahead of Mining + water management structures	Areas cleared on the surface - re-establish vegetation commensurate with surrounding vegetation		На	\$2.682.39	\$0.00	This includes the direct application of seed to restore the vegetation that was disturbed as part of clearing operations ahead of the mine.
	Areas topsoil stripped on the surface - source cart and		па	\$2,082.39	\$0.00	
	respread topsoil		m ³	\$2.55	\$0.00	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the reshaped areas
	Reshape, deep rip, ameliorate and seed highwall / internal access roads and tracks		На	\$6,386.65	\$0.00	This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass / tree seed and fertiliser
	Reshape, deep rip, ameliorate and seed exploration lines / areas		На	\$4,726.12	\$0.00	This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass / tree seed and fertiliser
		Precinct Secur			\$0.00	alternation of the second s
Dams & Water Holding Structures	Clean water dams to be retained after mine closure -	r reciner occur	ly Dopot		\$0.00	
	make safe and minor earthworks.		@	\$2,554.66	\$0.00	This item includes making the dam spillway, and walls stable and ensuring the integrity of the dam wall, etc.
	Dirty Water Dams (Drain and remove sediments to make dam clean water)					This item includes draining the dam and removing 500mm of potentially contaminated (saline) sediments to be buried in the pit. UNIT RATE: must consider the distance from the dam to the disposal area.
		405	m ³	\$4.09	\$1,655.42	810m2 dam surface area at 0.5m depth.
		Precinct Secur	ity Depos	it	\$1,655.42	
River & Creek Diversions	Creek diversion - Channel maintenance through spoil / backfill (20% of estimated diversion construction costs due to unknown landform stability)		m	\$383.20	\$0.00	This item includes the length (m) of diversion requiring ongoing maintenance (constructed through unconsolidated overburden). This will include earthworks repairs and stabilisation following flow events. It assumes a suitably qualified engineer has designed and signed off on construction of the diversion
	Creek diversion - Channel maintenance insitu (10% of estimated construction cost for diversion)		m	\$191.60	\$0.00	This item includes the length (m) of diversion requiring ongoing maintenance (constructed through natural ground). This will include earthworks repairs and stabilisation following flow events. It assumes a suitably oualified engineer has designed and signed of of on construction of the diversion
	Creek diversion - Vegetation maintenance		m ²	\$0.38	\$0.00	This item includes the ongoing maintenance of vegetation within the diversion channel & batters.
		Precinct Security Deposit		\$0.00		
Other	Other 1 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 2 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 3 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
		Precinct Secur	ity Depos	it	\$0.00	

Legend:

Item fixed no entry required Input from site optional (if information available) Input mandatory

Total Security Deposit for the "Domain" \$1,655.42

Sub Domain 5: Other

 Legend:

 Legend:

 Name Position Department Date
 Mitchelle Grierson Environmental Officer

 Management Procinct Date
 Management Procinct (information and care and maintenance of items that plan preparation, etc)
 Management Procinct The restoration and care and maintenance of items that the velocical are to be retained after the cessation of mining Cape exploration holdes Construction / Deconstruction of Bridges and crossings
 Quantity (information and store and plan preparation, etc)
 Unit Price S25,546.58
 Total Cost S0.00

Management Precinct	Activity / Description	Quantity	Onit	Unit Price	Total Cost	Description / Notes:
Other (eg. site contamination, closure	The restoration and care and maintenance of items that		0	\$25,546.58	\$0.00	This item includes ensuring that sufficient resources are made available to restore items of heritage
plan preparation, etc)	have historical significance and are to be retained after					significance and also provide money to enable the ongoing care and maintenance of the structure (if not
	the cessation of mining					the responsibility of any another stakeholder i.e. council, historical society)
	Cap exploration holes		@	\$319.33	\$0.00	This includes capping & rehabilitation of all old Cap exploration holes around the site
	Construction / Deconstruction of Bridges and crossings		@	\$0.00	\$0.00	Value to be provided by company
	Construction of Fencing - general		@	\$63.87	\$0.00	Includes general fencing around site or site works
	Other 5 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 6 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 7 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 8 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 9 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 10 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
		Precinct Secur	ity Depos	it	\$0.00	

Total Security Deposit for the "Domain" Domain 1: Dendrobium Mine Site TOTAL

0.00\$ \$1,579,276.29 Description / Notes:

Domain 2: Kemira Valley Coal Loading Facility (East)

Sub Domain 1: Infrastructure Areas

Name

Position

Department Date

Detail of person filling out the Worksheet:

Description / Notes: Management Precinct Activity / Description Unit Unit Price Total Cost Quantity isconnect and terminate s @ This item includes disconnecting and water and a second se \$31,933.23 \$14,050.62 47.2 \$663,189.32 isconnect and terminate powerlines km Power from West Cliff North Substation to the STP. Enter the total area of small buildings and offices in the CHPP area. It should not include Demolish and remove small buildings m² \$89.41 \$0.00 emountables which can be removed from site. It does not include a inter the total area of workshop facilities in the CHPP area. \$204.37 emolish and remove industrial buildings \$0.00 m² Enter the total surface area of the CHPP. If the CHPP is multi-story the entry should be the sum Demolish and remove Misc Plant \$204.37 \$1 493 146 74 7306 m² Enter the sum of the total length of conveyor and gantries. This includes conveyor to areas of conveyor from hoppers feeding back to the CHPP. \$70.25 emolish and remove conveyors & gantries (includes overland \$0.00 m nveyors) \$12.77 \$313,520.45 Remove Concrete pads and Footings 24545 m² Enter the total area the CHPP, workshops and buildings econstruct Large Tanks (e.g. Thickener) econstruct Small Tanks (e.g.Thickener) There the number of tanks to be removed from the site. Inter the number of tanks to be removed from the site. There the number of tanks to be removed from the site. There the total volume (e.a rear & depth of material) to be scalped off for disposal. INIT RATE: Depends on the haulage distance to the point where the material is to be disposed. \$191,599.38 \$60,883.94 \$3.32 \$0.00 \$0.00 \$0.00 @ emove carbonaceous material (spillage or otherwise) from otprint of the CHPP, ROM & Product stockpiles, conveyors and m kshops 2.4545 This item includes the areas requiring minor reshaping, rock raking and deep ripping to enhanc evecetation program. This would include the entire CHPP area. This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the CHPF inal trim, rock rake & deep rip \$638.66 \$1,567.60 На ource, cart and spread topsoil. \$1.53 \$11,286.74 7363.5 m³ bit item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the opplication of grass seed and fertiliser poil amelioration and supply and spread seed and fertiliser 2.4545 Ha \$4,726,12 \$11,600.26 Precinct Security Deposit \$2,526,244.33 \$7.66 his item includes the pulling up and removal from site of railway line and sleepers. Calculated as Rail Line and Loop temove Rail Loop and spur neal metre his item includes the areas requiring reshaping once the rail line, sleepers and ballast has been Reshape rail spur and load out area На \$6,386.65 \$0.00 emoved. This item includes the area requiring minor reshaping, rock raking and deep ripping (only as \$638.66 Final trim, rock rake & deep rip Ha \$0.00 uired) to enha На \$4,726.12 \$0.00 his item includes the area requiring the a oplication of grass seed and fertiliser poil amelio tion and supply and spread pasture seed and tiliser \$0.00 Precinct Security Deposit onnect and terminate services \$6,386.65 Main Workshop Area disconnecting and terminating all services such as power, water and sev This item includes s a "one off" cost \$0.00 molish and remove small buildings \$89.41 Enter the total area of small buildings and offices in the workshop area. It should not include lemountables which can be removed from site. It does not include workshops. Enter the total area of workshop facilities in the area. Include all remote or field based workshop \$0.00 m² emolish and remove industrial buildings m² \$204.37 \$0.00 reas. Enter the total area the workshops and buildings. Include the area of any bitumen car parks (or imilar). It would also include vehicle washdown pads, builk fuel bunding area and refuelling areas temove Concrete pads, Footings and bitumen (car park) for umping in a void on the site \$12.77 \$0.00 m Immar). It would also include vehicle washoown paos, buik true bunding area and retuelling areas in al concrete areas in the workshoo precinct). Enter the total volume (ie. area x depth of material) to be scalped off for disposal. JNIT RATE: Depends on the haulage distance to the point where the material is to be disposed. C Comment 17/09/14 - Assume 0.2m depth of material \$0.00 Remove contaminated material from workshop and hardstand \$2.55 0 m³ reas for disposal in the decline void AND/OR inter the total area of material requiring capping or sealing. Vhere assessments have already been made and the presence/absence of contaminated materia s know (and quantified) an alternative rate can be used. If this work has not been undertaken, a \$57,479.8 shaping, capping, sealing of material pre \$0.00 nting environme Ha lifficulties (AMD, Hydrocarbon material, etc) moval of UG tank (including pipes, bunds, etc) (include all \$95,799.69 ult rate per UGT is to be utilised. @ \$0.00 acilities on site) here an assessment of the volume of contaminated soil has been made this volume is to be n site remediation of contaminated soil (<1000m³) m³ \$63.87 \$0.00 ncluded. Where the volume in <u>not known</u> or has not been quantified a default volume of 3000m³ per fuel storage facility is to be used in cell C:37. here an assessment of the volume of contaminated material has been made this volume is to be On site remediation of contaminated soil \$51.09 \$0.00 (1000-10,000 m³ ncluded. Where the volume in not know or has not been quantified a default volume of 3000m³ pe uel storage facility is to be used. \$38.32 where an assessment of the volume of contaminated soil has been made this volume is to be On site remediation of contaminated soil (>10,000m³) m³ \$0.00 Included. Where the volume in <u>Characteristic</u> and the second state of the second stat Final trim, rock rake & deep rip Ha \$638.66 \$0.00 paulired) to enhance reveaetation program his includes sourcing, carting and spreading of a suitabl \$1.53 \$0.00 ource, cart and spread topsoi m IS LCOMMENT 12/09/14 - Assume 0.3m toosail This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and lettiliser \$4,726.12 Spoil amelioration and supply and spread seed and fertiliser 0 Ha \$0.00 recinct Se \$0.00 Deposi his item includes disconnecting and terminating all services such as power, water and sewer a "one off" cost Admin Buildings \$6,386.65 Disconnect and terminate services @ \$6,386.65 Comment: covered in Pit Top Infrastructure Enter the total area of small buildings and offices in the admin area. It shou demountables which can be removed from site. It does not include worksho Enter the total area of workshop facilities in the admin area. \$89.4 \$10,550.74 nolish and remove small buildings 118 ld not include m² \$204.37 Demolish and remove industrial buildings m² \$0.00 emove Concrete pads, Footings and bitumen (car park) \$12.77 \$0.00 nter the total area the workshops and buildings. Include the area of any bitumen car parks (o m² Comment: covered in Pit Too Infractructure This item includes the area requiring minor resthanging, rock raking and deep ripping (only as aggired) to enhance reveatation program This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the adm inal trim, rock rake & deep rip Ha \$638.66 \$0.00 0 \$1.53 Source, cart and spread topsoil. m³ \$0.00 0 C Comment: covered in Pit Top Infrastructure inter the total area of the admin, etc footprint requiring to be covered with fertiliser (and/or lime & \$4,726,12 Spoil amelioration and supply and spread pasture seed and Ha \$0.00 ypsum) prior to seeding INIT RATE: Depends the required rehabilitation commitment (ie. Trees will be more expensive ian grass) \$16,937.39 \$7,258.50 Precinct Security Deposit move carbonaceous material from roadways (coal / rejects nter the total volume (ie. area x depth of material) to be scalped off for disposal. NIT RATE: Depends on the haulage distance to the point where the material is to be disposed. Comment- Assume 0.2m depth of material Access Roads & Haul Roads 2185.6 \$3.32 pillage) eshape deep rip and ameliorate sealed / unsealed roads Ha \$6,386.65 \$0.00 inter the total area of the road footprint requiring to be covered with fertiliser (and/or lime & sum) prior to seeding TRATE: Depends the required rehabilitation commitment (ie. Trees will be more expensive in grass) overed in <u>Pit Top Infrastructure</u> ourcing, carting and spreading of a suitable volume of topsoil to cover the ac \$1.53 is includes sourcir ads & haul roads. \$0.00 Source, cart and spread topsoil. m³ in Pit Top to comment drawes on the requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser Spoil amelioration and supply and spread seed and fertiliser Ha \$4,726.12 \$0.00 Comment: covered in Pit Top Infrastruct \$7,258.50 his item includes disconnecting and terminating all services such as power, water and sew a "one off" cost Deposi \$3,193.32 Sewerage / Water Treatment Plant Disconnect and terminate services @ \$0.00 \$89.41 Demolish and remove small buildings / tank \$0.00 rea of small bu Idings and tanks m² m³ Enter the total volume (ie. area x depth of material) to be scalped off for disposal. UNIT RATE: Depends on the haulage distance to the point where the material is to be disposed IC Comment - Assume 0.2m depth of material temove contaminated material from areas for disposal (ie. \$2.55 \$0.00 emical spillage in / around storage sheds). This item includes the area requiring minor reshaping, rock raking and deep ripping (only as \$638.66 \$0.00 Final trim, rock rake & deep rip Ha quired) to enha \$1.53 ource, cart and spread topsoil. m³ \$0.00 This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser \$4,726.12 poil amelioration and supply and spread seed and fertilise Ha \$0.00

n fixed no entry required

put mandatory

nput from site optional (if information available)

						IC Comment: covered in Pit Too Infrastructure
		Precinct Secur	ity Deposit		\$0.00	
Hardstand /Laydown Areas (across the entire site)	Remove contaminated material from areas for disposal (ie. chemical/hydrocarbon spillage in the hard stand area).	4.4	m³	\$2.55	\$11.24	Enter the total volume (ie. area x depth of material) to be scalped off for disposal. UNIT RATE: Depends on the haulage distance to the point where the material is to be disposed. IC Comment: assuming depth of 0.2m
	Deep rip hard stand / laydown areas	0.0022	Ha	\$638.66	\$1.41	This item includes ripping hard stand and lay down areas to enhance the rehabilitation program.
	Source, cart and spread topsoil.		m³	\$1.53	\$0.00	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the hard stands and lay down areas
	Spoil amelioration and supply and spread seed and fertiliser.		На	\$4,726.12	\$0.00	IC Comment: covered in Pit Too Infrastructure This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser IC Comment: covered in Pit Too Infrastructure.
		Precinct Securi	ity Deposit		\$12.65	I. Comment covered in Pit for initiastructure
Underground Infrastructure	Seal Portal / Decline Entry		@	\$28,101.24	\$0.00	This includes sealing the portal to make safe and ensure access can not be obtained. The number of portals for the whole mine is to be included
	Seal & rehabilitate of ventilation fans.		@	\$31,933.23	\$0.00	This includes sealing & rehabilitation of the ventilation fans to make safe. The number of ventilation fans for the whole mine is to be included. IC Comment: To be included in Vent Shaft 1 and Vent Shaft 2&3.
	Shaft filling		m ³	\$24.35	\$0.00	This includes filling of shafts using onsite material.
	Shaft capping/sealing		@	\$12,176.79	\$0.00	Simple capping/sealing to DRE standards
	De-watering Bores		@	\$3,831.99	\$0.00	This includes sealing & rehabilitation of the dewatering bores to make safe. The total number of dewatering bores for the whole mine is to be included.
	Cap exploration holes		@	\$319.33	\$0.00	This includes capping & rehabilitation of all old Cap exploration holes around the site
	Minor earthworks and maintenance of mine subsidence areas		Ha	\$1,277.33	\$0.00	This includes undertaking surface drainage works, etc as required to remediate areas affected by Mine subsidence (outside the jurisdiction of the mine subsidence board)
		Precinct Secur	ity Deposit		\$0.00	
Other	Other 1 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 2 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 3 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
		Precinct Secur	ity Deposit		\$0.00	

Total Security Deposit for the "Domain"

\$2,550,452.86

Sub Domain 2: Tailings & Rejects Emplacements (1)

Complete a separate sheet for each t Detail of person filling out the Works	ailings dam/impoundment on the site. heet:			Legend:		
Name Position Department Date	Michelle Grierson Environmental Officer Health Safety Environment and Community 25/08/2015				Item fixed no entry required Input from site optional (if information avai Input mandatory	lable)
	Tailings Dam / Impoundment (Key Information): Materials Stored (ie. coal fines, coarse or co-disposed) Volume Stored (m3) Maximum Embankment Height (m) Maximum Embankment Length (m) Year Dam / Emplacement Commissioned Storage area (ha) Catchment Area of Tailings Dam / Emplacement (ha) Briefly describe embankment construction.					
	(earthen, clay /rejects core, etc)					J
Management Precinct Tailings Dams / Emplacements	Activity / Description Source, cart and spread suitable material to cap the tailings emplacement (cap thickness determined by MOP)	Quantity	Unit m ³	Unit Price \$2.55	Total Cost \$0.00	Description / Notes: This includes sourcing, carting and spreading of a suitable volume material to cap the tailings emplacement. The material must have appropriate chemical & physical properties.
	Apply engineered treatment as required (i.e. capping, capillary breaks, etc) - design in accordance with the MOP commitments.		Ha	\$57,479.81	\$0.00	This includes the area that requires engineering treatment is required to satisfy conditions of the MOP, This may include compaction or addition of multiple layers and / or capillary breaks.
	Reshape walls / buttress around the dam / emplacement - earthworks only		На	\$6,386.65	\$0.00	This includes the area that requires stabilisation and reshaping works around the walls of the emplacement (i.e. removal of rills and pipes that may present long term stability issues)
	Final trim, rock rake & deep rip		Ha	\$638.66	\$0.00	This item includes the area requiring minor reshaping, rock raking and deep ripping (only as required) to enhance revegetation program
	Structural works, banks waterways		Ha	\$1,788.26	\$0.00	This item includes the area requiring earthworks (banks, & drains, etc) to manage all surface water on the top of the emplacement to ensure that it is shed off the cap.
	Source, cart and spread topsoil.		m ³	\$1.53	\$0.00	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the tailings
	Spoil amelioration and supply and spread seed and fertiliser.		На	\$4,726.12	\$0.00	dam / emplacement. This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser
	Maintenance of rehabilitated areas (up to 5 years)		На	\$830.26	\$0.00	This item includes the total area of rehabilitation that has been established and requires subsequent fertiliser application. It assumes application twice on the first five (5) years after establishment
		Precinct Secur	ty Deposit		\$0.00	
Other	Other 1 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 2 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 3 <insert></insert>	Precinct Secur	ty Denosit		\$0.00 \$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
Coarse Rejects Emplacements	Source, cart and spread suitable material to cap the coarse rejects emplacement (cap thickness determined by MOP)	riceinet decur	m ³	\$2.55	\$0.00	This includes sourcing, carting and spreading of a suitable volume material to cap the coarse rejects emplacement. The material must have appropriate chemical & physical properties.
	Apply engineered treatment as required (i.e. capping, capillary breaks, etc) - design in accordance with the MOP commitments.		На	\$57,479.81	\$0.00	This includes the area that requires engineering treatment is required to satisfy conditions of the MOP, This may include compaction or addition of multiple layers and / or capillary breaks.
	Final trim, rock rake & deep rip		На	\$638.66	\$0.00	This item includes the area requiring minor reshaping, rock raking and deep ripping (only as required) to enhance revegetation program
	Structural works, banks waterways		Ha	\$1,788.26	\$0.00	required) to ennance revegetation program This item includes the area requiring earthworks (banks, & drains, etc) to manage all surface water on the top of the emplacement to ensure that it is shed off the cap.
	Source, cart and spread topsoil.		m ³	\$1.53	\$0.00	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the tailings dam / emplacement.
	Spoil amelioration and supply and spread seed and fertiliser.		Ha	\$4,726.12	\$0.00	tain remplacement. This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser
	Maintenance of rehabilitated areas (up to 5 years)		На	\$830.26	\$0.00	This item includes the total area of rehabilitation that has been established and requires subsequent fertiliser application. It assumes application twice on the first five (5) years after establishment
					\$0.00	
Other	Other 1 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 2 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 3 <insert></insert>	-			\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
		Precinct Secur	ty Deposit		\$0.00	

Total Security Deposit for the "Domain"

\$0.00

Sub Domain 3: Overburden & Waste Dumps

Detail of person filling out the Worksheet:

 Name
 Michelle Grierson

 Position
 Environmental Officer

 Department
 Health Safety Environment and Community

 Date
 25/08/2015

Legend: Item fixed no entry required Input from site optional (if information available) Input mandatory

Dute	20/00/2010					
Management Precinct	Activity / Description	Quantity	Unit	Unit Price	Total Cost	Description / Notes:
Successful Rehabilitation	Maintenance of Established Revegetated Area		Ha	\$830.26	\$0.00	This item includes the total area of rehabilitation that have been established and require subsequer
						fertiliser application. It assumes application twice on the first five (5) years after establishment
	Maintenance of Shaped Topsoiled and Seeded		На	\$830.26	\$0.00	This item includes the total area of that have been shaped, topsoiled and seeded and requires
				QOUDIED	\$0.00	subsequent fertiliser application. It assumes application twice in the first five (5) years after
						establishment
		Precinct Secur			\$0.00	
Shaped Overburden Dumps	Final trim, rock rake & deep rip		На	\$638.66	\$0.00	This item includes the area requiring minor reshaping, rock raking and deep ripping (only as required) to enhance revegetation program
	Structural works, banks, rock lined waterways		Ha	\$1,788.26	\$0.00	This item includes the area requiring earthworks (banks, & drains, etc) to manage all surface wate on the top of the emplacement to ensure that it is shed off the reshaped area.
	Source, cart and spread topsoil.		m ³	\$1.53	\$0.00	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the reshaped dump.
	Spoil amelioration and supply and spread seed and fertiliser.		Ha	\$4,726.12	\$0.00	This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to th application of grass seed and fertiliser
	Maintenance of rehabilitated areas (up to 5 years)		На	\$830.26	\$0.00	This item includes the total area of that have been shaped, topsolied and seeded and requires subsequent fertiliser application. It assumes application twice in the first five (5) years after establishment
		Precinct Secur	ity Deposit		\$0.00	estatuistiment
Unshaped Overburden Dumps (minor reshaping required)	Minor pushing, final trim, rock rake & deep rip		Ha	\$638.66	\$0.00	This item includes the area requiring minor reshaping, rock raking and deep ripping (only as required) to enhance revecetation program
(minor resnaping required)	Structural works, banks, rock lined waterways		Ha	\$1,788.26	\$0.00	This item includes the area requiring earthworks (banks, & drains, etc) to manage all surface wate on the top of the emplacement to ensure that it is shed off the reshaped area.
	Source, cart and spread topsoil.		m ³	\$1.53	\$0.00	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the reshaped dump.
	Spoil amelioration and supply and spread seed and fertiliser.		Ha	\$4,726.12	\$0.00	This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to th application of grass seed and fertiliser
	Maintenance of rehabilitated areas (up to 5 years)		Ha	\$830.26	\$0.00	This item includes the total area of that have been shaped, topsoiled and seeded and requires subsequent fertiliser application. It assumes application twice in the first five (5) years after establishment
		Precinct Secur	ity Deposit		\$0.00	
Unshaped Overburden Dumps (major earthworks required)	Major bulk pushing to achieve grades nominated in the MOP (i.e. $< 18^{\circ}$)		m ³	\$1.41	\$0.00	This item includes the volume requiring major reshaping, rock raking and deep ripping (only as required) to enhance revegetation program
	Structural works, banks, rock lined waterways		На	\$1,788.26	\$0.00	This item includes the area requiring earthworks (banks, & drains, etc) to manage all surface wate on the top of the emplacement to ensure that it is shed off the cap.
	Source, cart and spread topsoil.		m ³	\$1.53	\$0.00	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the reshaped dump.
	Spoil amelioration and supply and spread seed and fertiliser.		На	\$4,726.12	\$0.00	This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to th application of grass seed and fertiliser
	Maintenance of rehabilitated areas (up to 5 years)		Ha	\$830.26	\$0.00	This item includes the total area of that have been shaped, topsoiled and seeded and requires subsequent fertiliser application. It assumes application twice in the first five (5) years after establishment
		Precinct Secur	ity Deposit		\$0.00	
Other	Other 1 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 2 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 3 <insert></insert>		1		\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>

Total Security Deposit for the "Domain"

\$0.00

Sub Domain 4: Surface Disturbance

Detail of person filling out th

ng out the Worksheet:	:	Legend:	
Name Mid	chelle Grierson		Item fixed no entry
Position Env	nvironmental Officer		Input from site optic
Department He	ealth Safety Environment and Community		Input mandatory
Date 25/	/08/2015		

Description / Notes: This item includes the total area of rehabilitation that have been established and require subsequirer fertiliser application. It assumes application twice on the first five (5) years after establishment UNIT RATE: difficult 2 blast - dozer roush This item includes the volume requiring major reshaping, rock raking and deep ripping (only as required) to enhance revegetation program UNIT RATE: dozer push rate This item includes the area requiring minor reshaping, rock raking and deep ripping (only as required) to enhance revegetation program. Management Precinct Unit Unit Price Total Cost Activity / Description Quantity rill & Blast Highwall Initial Boxcuts & Other Voids ${\sf m}^3$ \$0.89 \$0.00 Major bulk pushing of the high wall are to achieve grades m³ nominated in the MOP (i.e < 18°) Final trim, rock rake & deep rip \$1.41 \$0.00 На \$638.66 \$0.00 required) to enhance revegetation program This includes sourcing, carting and spreading of a suitable volume of topsoil to Source, cart and spread topsoil (at 20cm) m³ \$1.53 \$0.00 Spoil amelioration and supply and spread pasture seed and his item includes the area requiring the addition of ameliorates such as lime or gypsum prior to t На \$4,726.12 \$0.00 application of grass seed and fertiliser This item includes the erection of a 2m security fence (lineal metre) around the void and othe Security Fence around steep section highwall m \$63.87 \$0.00 dangerous areas. This item includes the construction of a safety berm and rill (lineal metre) around the highwall to High wall treatment - (trench + safety berm) m \$0.00 \$73.45 stop all vehicles, etc accidentally driving over haul road (engineered control). Precinct Secu ty Deposit \$0.00 eas cleared on the surface - re-establish vegetation mmensurate with surrounding vegetation eas topsoil stripped on the surface - source cart and respread This includes the direct application of seed to restore the vegetation that was disturbed as part of clearing operations ahead of the mine. Disturbance ahead of Mining + wat management structures На \$2,682.39 \$0.00 This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the reshape m^3 \$2.55 \$0.00 opsoil This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to th application of grass / tree seed and fertiliser eshape, deep rip, ameliorate and seed highwall / internal access oads and tracks На \$6,386.65 \$0.00 his item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the pplication of grass / tree seed and fertiliser shape, deep rip, ameliorate and seed exploration lines / an На \$4,726.12 \$0.00 \$0.00 lean water dams to be retained after mine closure -make safe nd minor earthworks. Precinct Secu ty Deposit Dams & Water Holding Structures his item includes making the dam spillway, and walls stable and ensuring the integrity of the dar @ \$2,554.66 \$0.00 wall, etc. This item includes draining the dam and removing 500mm of potentially contaminated (saline) sediments to be buried in the pit. UNIT RATE: must consider the distance from the dam to the irty Water Dams (Drain and remove sediments to make dam ean water) disposal area. m³ 2921 \$4.09 \$11.939.45 comment: Assume total dam surface area of 5842m2 \$11,939.45 Precinct Security Deposit is item includes the length (m) of diversion requiring ongoing maintenance (constructed through consolidated overburden). This will include earthworks repairs and stabilisation following flow ents. It assumes a suitably qualified engineer has designed and signed off on construction of th version. **River & Creek Diversions** Creek diversion - Channel maintenance through spoil / backfill 20% of estimated diversion construction costs due to unknown andform stability) \$383.20 \$0.00 m This item includes the length (m) of diversion requiring ongoing maintenance (constructed through natural ground). This will include earthworks repairs and stabilisation following flow events. It assumes a suitably qualified engineer has designed and signed off on construction of the diversion Creek diversion - Channel maintenance insitu (10% of estimated construction cost for diversion) \$191.60 \$0.00 Creek diversion - Vegetation maintenance m² This item includes the ongoing maintenance of vegetation within the diversion channel & batters. \$0.38 \$0.00 \$0.00 **Precinct Security Deposit** Other 1 <insert> Other \$0.00 This item includes <<to be add led by the Other 2 <insert> Other 3 <insert> \$0.00 is item includes <<to be added by the opera is item includes <<to be added by the opera \$0.00 **\$0.00 Precinct Security De**

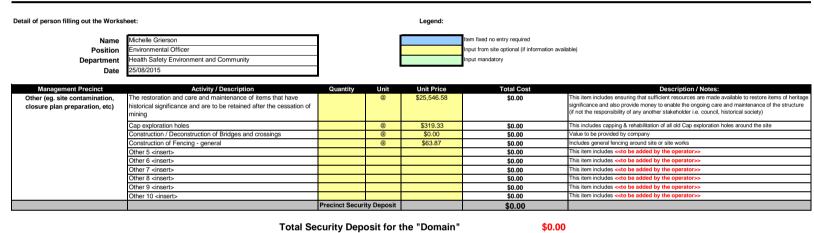
Total Security Deposit for the "Domain"

\$11,939.45

tem fixed no entry required

nput from site optional (if information available)

Sub Domain 5: Other



Domain 2: Kemira Valley East TOTAL

\$2,562,392.32

Domain 3: Vent Shaft 1

Sub Domain 1: Infrastructure Areas

Detail of person filling out the Worksheet:

Name Position Department

Date

 sheet:
 Legend:

 Michelle Grierson
 Item fixed no entry required

 Environmental Officer
 Input from site optional (if information available)

 Health Safety Environment and Community
 Input mandatory

Numeric larger is a second s		Activity / Description	Quantity	Unit	Unit Price	Total Cost	Description / Notes:	
	Pit Top Infrastructure		1		\$31,933.23		This item includes disconnecting and terminating all services such as power, water and sewer. It is a "one off" cost	
Note		Disconnect and terminate powerlines		km	\$14,050.62	\$0.00	This item includes the cost to terminate and remove powerlines, and is based	
Image: state		Demolish and remove small buildings		m²	\$89.41	\$0.00	Enter the total area of small buildings and offices in the CHPP area. It should	
NumberNum		_					not include demountables which can be removed from site. It does not include workshops	
Image: state		-						
Index <th< td=""><td></td><td></td><td>624</td><td></td><td></td><td></td><td>should be the sum of the surface area for all floors.</td></th<>			624				should be the sum of the surface area for all floors.	
Image: state of the				m	\$70.25	\$0.00	conveyor to rail load out areas of conveyor from hoppers feeding back to the	
Note: Note: <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
Part of the sectorPart of the sectorPar			2395					
Indef for the sector of the		Deconstruct Small Tanks (e.g. Thickener)		-				
Part of the sector of the				m°	\$3.3Z	\$0.00	disposal.	
Image: state								
Image: Section of the secti		Final trim, rock rake & deep rip	0.2395	На	\$638.66	\$152.96	This item includes the areas requiring minor reshaping, rock raking and deep	
Normal set in the set in t		Pauraa, part and aproad toppoil	710 E	3	¢1 50	£4.404.04	area.	
Decision of the state of th		Source, carr and spread topson.	710.5	m	¢1.55	\$1,101.51	cover the CHPP area	
Notional part of the second		Paol amplianation and supply and aproad and and fartilizer	0.0205	Ha	¢4 706 40	£1 101 01		
Notice of enclosed sectors of enclosed sec		Spoir amerioration and supply and spread seed and remiser.			\$4,720.12			
Interpretation Image Image <thimage< th=""> Image Image</thimage<>	Rail Line and Loop	Remove Rail Loop and spur	Precinct Secur		\$7.66		This item includes the pulling up and removal from site of railway line and	
IndependenceImage: state in the state in th		Reshape rail spur and load out area		На	\$6,386.65	\$0.00	This item includes the areas requiring reshaping once the rail line, sleepers	
Indef and a set of the		Final trim, rock rake & deep rip		На	\$638.66	\$0.00	This item includes the area requiring minor reshaping, rock raking and deep	
Bankabio Control Control Solution		Spoil amelioration and supply and spread pasture seed and fertiliser.		На	\$4,726.12	\$0.00	This item includes the area requiring the addition of ameliorates such as lime	
Nome that we show the set of the			Precinct Secur	ity Denosit		00.03	or gypsum prior to the application of grass seed and fertiliser	
Note Note <t< td=""><td>Main Workshop Area</td><td>Disconnect and terminate services</td><td>i recinet occur</td><td></td><td>\$6,386.65</td><td></td><td>This item includes disconnecting and terminating all services such as power,</td></t<>	Main Workshop Area	Disconnect and terminate services	i recinet occur		\$6,386.65		This item includes disconnecting and terminating all services such as power,	
Note Note Note Note Note Note Note Note No		-		0				
Image: Section of the secti		Demolish and remove small buildings		m²	\$89.41	\$0.00	should not include demountables which can be removed from site. It does not	
Number of controls of formation (and format		Demolish and remove industrial buildings		m²	\$204.37	\$0.00	Enter the total area of workshop facilities in the area. Include all remote or field	
International and any		-					Enter the total area the workshops and buildings. Include the area of any	
Investor interaction in a large in a section of							bulk fuel bunding area and refuelling areas (i.e. all concrete areas in the	
No. 100 <		Remove contaminated material from workshop and hardstand areas	0	m ³	\$2.55	\$0.00	workshop precinct) i) Enter the total volume (ie. area x depth of material) to be scalped off for	
Nome Nome Nome Nome Nome Nome N								
Hand (M. Hadorb mode) No. Hand (M. Hadorb mode) Hand (M.							is to be disposed.	
Image: Section of the secti				На	\$57,479.81	\$0.00	Where assessments have already been made and the presence/absence of	
Base of the introduction of the interval of the interv							contaminated material is know (and quantified) an alternative rate can be used If this work has not been undertaken, a de	
Base enclosed operating operatin				@	\$95,799.69	\$0.00	A default rate per UGT is to be utilised.	
No. No. <td></td> <td>,</td> <td></td> <td>m³</td> <td>\$63.87</td> <td>\$0.00</td> <td>where an assessment of the volume of contaminated soil has been made this</td>		,		m ³	\$63.87	\$0.00	where an assessment of the volume of contaminated soil has been made this	
Image: State in the state interpret interpret into the state interpret into the state i							quantified a default volume of 3000m ³ per fuel storage facility is to be used in	
Answer of the second					A 54.00			
Image: Section of an impact of an impact of a section of a		On site remediation of contaminated soil (1000-10,000m ³)		m³	\$51.09	\$0.00	this volume is to be included. Where the volume in not know or has not been	
Interfact of the state of t							quantified a default volume of 3000m ³ per fuel storage facility is to be used.	
Number of the state		On site remediation of contaminated soil (>10,000m ³)		m ³	\$38.32	\$0.00	where an assessment of the volume of contaminated soil has been made this	
Image: Section of the secti							volume is to be included. Where the volume in <u>not known</u> or has not been quantified a default volume of 3000m ³ per fuel storage facility is to be used in	
Number of the state		Final trim, rock rake & deep rip	0	На	\$638.66	\$0.00	This item includes the area requiring minor reshaping, rock raking and deep	
Second state and negly and search a		Source, cart and spread topsoil.	0	m ³	\$1.53	\$0.00	This includes sourcing, carting and spreading of a suitable volume of topsoil to	
Adata buildings Proceed act of themas in act on barse Proceed act o							IC comment 17/09/14 - Assume 0.3m depth topsoil	
Admin Building Second ad statutus and backage Pail Second Se		Spoil amelioration and supply and spread seed and fertiliser.			\$4,726.12	-		
Image: Section of the secti	Admin Buildings	Disconnect and terminate services	Precinct Secur		\$6,386.65		This item includes disconnecting and terminating all services such as power,	
Image: state in the				-		\$0.00		
Image: Section of strands and statuting in the strands in		Demolish and remove small buildings		m²	\$89.41	\$0.00	Enter the total area of small buildings and offices in the admin area. It should not include demountables which can be removed from site. It does not include	
Intersection of part and space status of a		Demolish and remove industrial buildings		m ²	\$204.37	\$0.00	workshops.	
Partorn Concent of a deep 0 0 <td></td> <td>-</td> <td>0</td> <td></td> <td></td> <td>-</td> <td></td>		-	0			-		
Index, or and spread special Index Index <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>bitumen car parks (or similar)</td></t<>							bitumen car parks (or similar)	
Base of the data set of			Ū				ripping (only as required) to enhance revegetation program	
Number of the second			0					
Image: Control in the state of the			0	m-	\$1.53			
Image: Constant Reads & Hus Roads Remote the conduction statical from endows (cond rights) fights) Reads & Solar						\$0.00	cover the admin area. Enter the total area of the admin, etc footprint requiring to be covered with	
Image: Control of the second						\$0.00	cover the admin area. Enter the total area of the admin, etc footprint requiring to be covered with fertiliser (and/or line & gypsum) prior to seeding UNIT RATE: Depends the required rehabilitation commitment (ie. Trees will b	
Image: space		Spoil amelioration and supply and spread pasture seed and fertiliser.	0 Precinct Secur	Ha ity Deposit	\$4,726.12	\$0.00	cover the admin area. Enter the total area of the admin, etc footprint requiring to be covered with fertiliser (androi lime & gryssum) prior to seeding UNIT RATE: Depends the required rehabilitation commitment (ie. Trees will b more remeasive than crass)	
Image: Provide the spectra large sp	Access Roads & Haul Roads	Spoil amelioration and supply and spread pasture seed and fertiliser.	0 Precinct Secur	Ha ity Deposit	\$4,726.12	\$0.00	cover the admin area. Enter the total area of the admin, etc footprint requiring to be covered with fertilise (and/or line & gypsum) prior to seeding UNIT RATE: Depends the required rehabilitation commitment (ie. Trees will be more emonosity than crass) Enter the total volume (ie. area x depth of material) to be scalped off for disposal.	
Image: Section of the secti	Access Roads & Haul Roads	Spoil amelioration and supply and spread pasture seed and fertiliser.	0 Precinct Secur	Ha ity Deposit	\$4,726.12	\$0.00	cover the admin area. Enter the total area of the admin, etc footprint requiring to be covered with fertilise (and/or lime & gyposum) prior to seeding UNIT RATE: Depends the required rehabilitation commitment (ie. Trees will be more asynobic then oracis) Enter the total volume (ie. area x depth of material) to be scalped off for disposal. UNIT RATE: Depends on the haulage distance to the point where the material is to be disposed.	
Image: space	Access Roads & Haul Roads	Spoil amelioration and supply and spread pasture seed and fertiliser. Remove carbonaceous material from roadways (coal / rejects spillage)	0 Precinct Secur 3184	Ha ity Deposit m ³	\$4,726.12 \$3.32	\$0.00 \$10,574.24	cover the admin area. Enter the total area of the admin, etc footprint requiring to be covered with fertilise (and/or lime & gypsum) prior to seeding UNIT RATE: Depends the required rehabilitation commitment (ie. Trees will be more example than crass) Enter the total volume (ie. area x depth of material) to be scalped off for disposal. UNIT RATE: Depends on the haulage distance to the point where the material is to be disposed. IC comment 17/10/2014 - Assume 0.2m depth of material	
Image: Specific and supply and gased and femiliaer. Image: Specific and supply and gased and femiliaer. Specific and supply and gased and supply and	Access Roads & Haul Roads	Spoil amelioration and supply and spread pasture seed and fertiliser. Remove carbonaceous material from roadways (coal / rejects spillage)	0 Precinct Secur 3184	Ha ity Deposit m ³	\$4,726.12 \$3.32	\$0.00 \$10,574.24	cover the admin area. Enter the total area of the admin, etc footprint requiring to be covered with fertiliser (and/or lime & gypsum) prior to seeding UNIT RATE: bepends the required rehabilitation commitment (ie. Trees will be more expensive than crass) Enter the total volume (ie. area x depth of material) to be scalped off for disposal. UNIT RATE: Depends on the haulage distance to the point where the material is to be disposed. If comment 1/08/2014 - Assume 0.2m depth of material Enter the total area of the read footprint requiring to be covered with fertiliser (and/or lime & gypsum) prior to seeding	
Image: second status Image: s	Access Roads & Haul Roads	Spoil amelioration and supply and spread pasture seed and fertiliser. Remove carbonaceous material from roadways (coal / rejects spillage)	0 Precinct Secur 3184	Ha ity Deposit m ³	\$4,726.12 \$3.32	\$0.00 \$10,574.24	cover the admin area. Enter the total area of the admin, etc footprint requiring to be covered with fertilise (and/or lime & gypsum) prior to seeding UNIT RATE: Depends the required rehabilitation commitment (ie. Trees will be more exensive than crass) Enter the total volume (ie. area x depth of material) to be scalped off for disposal. UNIT RATE: Depends on the haulage distance to the point where the material is to be disposed. IC comment 17/08/2014: Assume 0.7m depth of material Enter the total area of the read footprint requiring to be covered with fertiliser (and/or lime & gypsum) prior to seeding UNIT RATE: Depends the required rehabilitation commitment (ie. Trees will b	
Image:	Access Roads & Haul Roads	Spoil amelioration and supply and spread pasture seed and fertiliser. Remove carbonaceous material from roadways (coal / rejects spillage) Reshape deep rip and ameliorate sealed / unsealed roads	0 Precinct Secur 3184 0.3184	Ha ity Deposit m ³ Ha	\$4,726.12 \$3.32 \$6,386.65	\$0.00 \$10.574.24 \$2,033.51	cover the admin area. Enter the total area of the admin, etc footprint requiring to be covered with fertilise (and/or lime & gypsum) prior to seeding UNIT RATE: Depends the required rehabilitation commitment (ie. Trees will be more exensise than crass) Enter the total volume (ie. area x depth of material) to be scalped off for disposal. UNIT RATE: Depends on the haulage distance to the point where the material is to be disposed. IC comment 17/08/2014: Assume 0.2m depth of material Chart the total area of the read footprint requiring to be covered with fertiliser (and/or lime & gypsum) prior to seeding UNIT RATE: Depends the required rehabilitation commitment (ie. Trees will be more expensive than grass) IC comment securing, carting and spreading of a suitable volume of topsoil to	
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Severage / Water Treatment Plant Disconnect and terminate services Image: Plant Status Status Status Status The immutation and immutatit	Access Roads & Haul Roads	Spoil amelioration and supply and spread pasture seed and fertiliser. Remove carbonaceous material from roadways (coal / rejects spillage) Reshape deep rip and ameliorate sealed / unsealed roads Source, cart and spread topsoil.	0 Precinct Secur 3184 0.3184 955.2	Ha m ³ Ha m ³	\$4,726.12 \$3.32 \$6,386.65 \$1.53	\$0.00 \$10.574.24 \$2,033.51 \$1,464.13	cover the admin area. Enter the total area of the admin, etc footprint requiring to be covered with fertilise (and/or lime & gypsum) prior to seeding UNIT RATE: Depends the required rehabilitation commitment (ie. Trees will be more exensise than crass) Enter the total volume (ie. area x depth of material) to be scalped off for disposal. UNIT RATE: Depends on the haulage distance to the point where the material is to be disposed. IC comment 17/08/2014: Assume 0.2m depth of material Charles and of the read footprint requiring to be covered with fertiliser (and/or lime & gypsum) prior to seeding UNIT RATE: Depends the required rehabilitation commitment (ie. Trees will be more expensive than grass) IC comment - Assume 0.3m topsoil This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the access reads & haul roads.	
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Remove contaminated material from areas for disposal (ie. chemical/hydrocarbon spillage in the hard stand area). Deep rip hard stand / laydown areas Source, cart and spread topsoil. Spoil amelioration and supply and spread seed and fertiliser. Seal Portal / Decline Entry Seal & rehabilitate of ventilation fans. Shaft filling Shaft capping/sealing De-watering Bores Cap exploration holes Minor earthworks and maintenance of mine subsidence areas Other 1 <inserts- 2="" 2<="" <inserts-="" other="" td=""><td>0 Precinct Secur 0.3184 0.3184 955.2 0.3184 Precinct Secur Precinct Secur 1 1 1 3000</td><td>Ha ty Deposit m³ Ha ty Deposit @ m³ Ha m³ Ha m³ Ha ty Deposit m³ Ha Ha m³ Ha Ha Ha Ha Ha Ha Ha Ha Ha Ha</td><td>\$4,726.12 \$3.32 \$6,386.65 \$1.53 \$4,726.12 \$3,193.32 \$89.41 \$2.55 \$638.66 \$1.53 \$4,726.12 \$2.55 \$3.33 \$2.61,24 \$3.193.23 \$2.435 \$1.2,176.79 \$3.831.99 \$3.831.93</td><td>\$0.00 \$10,574.24 \$2,033.51 \$1,464.13 \$1,504.80 \$1,504.80 \$1,504.80 \$0.00</td><td>cover the admin area. Enter the total area of the admin, etc footprint requiring to be covered with fertilise (adford line & gypsum) prior to seeding UNIT RATE: Depends the required rehabilitation commitment (ie. Trees will b more nonnexish than crass) Enter the total volume (ie. area x depth of material) to be scalped off for disposal. UNIT RATE: Depends on the haulage distance to the point where the materia is to be disposed. IC comment 17/08/2014 - Assume 0.2m depth of material to be disposed. IC comment 12/08/2014 - Assume 0.2m depth of material Enter the total area of the read footprint requiring to be covered with fertiliser (and/or line & gypsum) prior to seeding UNIT RATE: Depends the required rehabilitation commitment (ie. Trees will b more expensive than grass) IC Comment - sourcing, carting and spreading of a suitable volume of topsoil to cover the access roads & haul roads. IC comment - Assume 0.3m topsoil This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the access roads & haul roads. IC comment - Routing and terminating all services such as lime or unsum prior to the application of grass seed and fertiliser This item includes the area requiring the addition of ameliorates such as lime or unsum prior to the application of grass seed and fertiliser This item includes disconnecting and terminating all services such as power, water and sewer. It is a 'roe off' cost. Included under BT to finitaristruture Enter the total area of small buildings and tanks. Enter the total area of small buildings and tanks. Enter the total volume (ie. area x depth of material) to be scalped off for disposal. UNIT RATE: Depends on the haulage distance to the point where the materia is the bacinosed This includes stear enguiring the addition of ameliorates such as lime or upsum prior to the application of grass seed and fertiliser This includes sealing and spreading of a suitable volume of topsoil to cover the appreading and spreading of a suitable volume of topsoil to cover the materiac</td></inserts->	0 Precinct Secur 0.3184 0.3184 955.2 0.3184 Precinct Secur Precinct Secur 1 1 1 3000	Ha ty Deposit m ³ Ha ty Deposit @ m ³ Ha m ³ Ha m ³ Ha ty Deposit m ³ Ha Ha m ³ Ha Ha Ha Ha Ha Ha Ha Ha Ha Ha	\$4,726.12 \$3.32 \$6,386.65 \$1.53 \$4,726.12 \$3,193.32 \$89.41 \$2.55 \$638.66 \$1.53 \$4,726.12 \$2.55 \$3.33 \$2.61,24 \$3.193.23 \$2.435 \$1.2,176.79 \$3.831.99 \$3.831.93	\$0.00 \$10,574.24 \$2,033.51 \$1,464.13 \$1,504.80 \$1,504.80 \$1,504.80 \$0.00	cover the admin area. Enter the total area of the admin, etc footprint requiring to be covered with fertilise (adford line & gypsum) prior to seeding UNIT RATE: Depends the required rehabilitation commitment (ie. Trees will b more nonnexish than crass) Enter the total volume (ie. area x depth of material) to be scalped off for disposal. UNIT RATE: Depends on the haulage distance to the point where the materia is to be disposed. IC comment 17/08/2014 - Assume 0.2m depth of material to be disposed. IC comment 12/08/2014 - Assume 0.2m depth of material Enter the total area of the read footprint requiring to be covered with fertiliser (and/or line & gypsum) prior to seeding UNIT RATE: Depends the required rehabilitation commitment (ie. Trees will b more expensive than grass) IC Comment - sourcing, carting and spreading of a suitable volume of topsoil to cover the access roads & haul roads. IC comment - Assume 0.3m topsoil This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the access roads & haul roads. IC comment - Routing and terminating all services such as lime or unsum prior to the application of grass seed and fertiliser This item includes the area requiring the addition of ameliorates such as lime or unsum prior to the application of grass seed and fertiliser This item includes disconnecting and terminating all services such as power, water and sewer. It is a 'roe off' cost. Included under BT to finitaristruture Enter the total area of small buildings and tanks. Enter the total area of small buildings and tanks. Enter the total volume (ie. area x depth of material) to be scalped off for disposal. UNIT RATE: Depends on the haulage distance to the point where the materia is the bacinosed This includes stear enguiring the addition of ameliorates such as lime or upsum prior to the application of grass seed and fertiliser This includes sealing and spreading of a suitable volume of topsoil to cover the appreading and spreading of a suitable volume of topsoil to cover the materiac	

Total Security Deposit for the "Domain"

\$341,111.86

Sub Domain 2: Tailings & Rejects Emplacements (1)

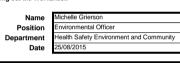
	sheet:			Legend:		
	Michelle Grierson	1			Item fixed no entry required	
Name	Environmental Officer				Input from site optional (if information	
Position					Input mandatory	n available)
Department	Health Safety Environment and Community				input mandatory	
Date	25/08/2015	J				
	Tailings Dam / Impoundment (Key Information): Materials Stored (ie. coal fines, coarse or co-disposed) Volume Stored (m3) Maximum Embankment Height (m) Maximum Embankment Length (m) Year Dam / Emplacement Commissioned					
	Storage area (ha) Catchment Area of Tailings Dam / Emplacement (ha) Briefly describe embankment construction. (earthen, clay /rejects core, etc)					-
						_
Management Precinct Tailings Dams / Emplacements	Activity / Description Source, cart and spread suitable material to cap the tailings	Quantity	Unit	Unit Price \$2.55	Total Cost	Description / Notes: This includes sourcing, carting and spreading of a suitable volume ma
ranings Dams / Emplacements	emplacement (cap thickness determined by MOP)		m ³		\$0.00	cap the tailings emplacement. The material must have appropriate cl physical properties.
	Apply engineered treatment as required (i.e. capping, capillary breaks, etc) - design in accordance with the MOP commitments.		На	\$57,479.81	\$0.00	This includes the area that requires engineering treatment is required conditions of the MOP, This may include compaction or addition of m layers and / or capillary breaks.
	Reshape walls / buttress around the dam / emplacement - earthworks only		Ha	\$6,386.65	\$0.00	This includes the area that requires stabilisation and reshaping works the walls of the emplacement (i.e. removal of rills and pipes that may long term stability issues)
	Final trim, rock rake & deep rip		На	\$638.66	\$0.00	This item includes the area requiring minor reshaping, rock raking an ripping (only as required) to enhance revegetation program
	Structural works, banks waterways		На	\$1,788.26	\$0.00	This item includes the area requiring earthworks (banks, & drains, et manage all surface water on the top of the emplacement to ensure the shed off the cap.
	Source, cart and spread topsoil.		m ³	\$1.53	\$0.00	This includes sourcing, carting and spreading of a suitable volume of cover the tailings dam / emplacement.
	Spoil amelioration and supply and spread seed and fertiliser.		Ha	\$4,726.12	\$0.00	This item includes the area requiring the addition of ameliorates such or gypsum prior to the application of grass seed and fertiliser
	Maintenance of rehabilitated areas (up to 5 years)		На	\$830.26	\$0.00	This item includes the total area of rehabilitation that has been establ requires subsequent fertiliser application. It assumes application twi first five (5) years after establishment
		Precinct Securi	ity Deposit		\$0.00	
Other	Other 1 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 2 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 3 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
		Precinct Securi	ity Deposit		\$0.00	
Coarse Rejects Emplacements	Source, cart and spread suitable material to cap the coarse rejects emplacement (cap thickness determined by MOP)		m ³	\$2.55	\$0.00	This includes sourcing, carting and spreading of a suitable volume m cap the coarse rejects emplacement. The material must have approp chemical & physical properties.
	Apply engineered treatment as required (i.e. capping, capillary breaks, etc) - design in accordance with the MOP commitments.		Ha	\$57,479.81	\$0.00	This includes the area that requires engineering treatment is required conditions of the MOP, This may include compaction or addition of r layers and / or capillary breaks.
	Final trim, rock rake & deep rip		Ha	\$638.66	\$0.00	This item includes the area requiring minor reshaping, rock raking an ripping (only as required) to enhance revegetation program
	Structural works, banks waterways		На	\$1,788.26	\$0.00	This item includes the area requiring earthworks (banks, & drains, et manage all surface water on the top of the emplacement to ensure th
	Source, cart and spread topsoil.		m ³	\$1.53	\$0.00	shed off the cap. This includes sourcing, carting and spreading of a suitable volume of cover the tailings dam / emplacement.
	Spoil amelioration and supply and spread seed and fertiliser.		На	\$4,726.12	\$0.00	This item includes the area requiring the addition of ameliorates such or gypsum prior to the application of grass seed and fertiliser
	Maintenance of rehabilitated areas (up to 5 years)		На	\$830.26	\$0.00	This item includes the total area of rehabilitation that has been establ requires subsequent fertiliser application. It assumes application twi first five (5) years after establishment
					\$0.00	
Other	Other 1 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
Other	Other 1 <insert> Other 2 <insert> Other 3 <insert></insert></insert></insert>					This item includes < <to added="" be="" by="" operator="" the="">> This item includes <<to added="" be="" by="" operator="" the="">> This item includes <<to added="" be="" by="" operator="" the="">></to></to></to>

Total Security Deposit for the "Domain"

\$0.00

Sub Domain 3: Overburden & Waste Dumps

Detail of person filling out the Worksheet:



Legend:

Item fixed no entry required Input from site optional (if information avai Input mandatory ilable)

Management Precinct	Activity / Description	Quantity	Unit	Unit Price	Total Cost	Description / Notes:
Successful Rehabilitation	Maintenance of Established Revegetated Area		Ha	\$830.26	\$0.00	This item includes the total area of rehabilitation that have been established
ouccessial Kenabilitation	Maintenance of Established Revegetated Area			\$0001E0	\$0.00	and require subsequent fertiliser application. It assumes application twice
						the first five (5) years after establishment
	Maintenance of Shaped Topsoiled and Seeded		Ha	\$830.26	\$0.00	This item includes the total area of that have been shaped, topsoiled and
					• • • • •	seeded and requires subsequent fertiliser application. It assumes application
						twice in the first five (5) years after establishment
		Precinct Secur	ity Deposit		\$0.00	
Shaped Overburden Dumps	Final trim, rock rake & deep rip		Ha	\$638.66	\$0.00	This item includes the area requiring minor reshaping, rock raking and o
				.		ripping (only as required) to enhance revegetation program
	Structural works, banks, rock lined waterways		Ha	\$1,788.26	\$0.00	This item includes the area requiring earthworks (banks, & drains, etc)
						manage all surface water on the top of the emplacement to ensure that
				* + = 0	40.00	shed off the reshaped area.
	Source, cart and spread topsoil.		m ³	\$1.53	\$0.00	This includes sourcing, carting and spreading of a suitable volume of to
	Spoil amelioration and supply and spread seed and fertiliser.		На	\$4,726.12	\$0.00	cover the reshaped dump. This item includes the area requiring the addition of ameliorates such a
	Spoil amelioration and supply and spread seed and fertiliser.		на	\$4,726.12	\$0.00	or gypsum prior to the application of grass seed and fertiliser
	Maintenance of rehabilitated areas (up to 5 years)		На	\$830.26	\$0.00	This item includes the total area of that have been shaped, topsoiled ar
	maintenance of renabilitated areas (up to 5 years)		ria	φ03 0.2 6	\$0.00	seeded and requires subsequent fertiliser application. It assumes appli
						twice in the first five (5) years after establishment
		Precinct Secur	ity Deposit		\$0.00	
Jnshaped Overburden Dumps	Minor pushing, final trim, rock rake & deep rip		На	\$638.66	\$0.00	This item includes the area requiring minor reshaping, rock raking and
(minor reshaping required)	nino paoling, nila tini, root faito a acop np		110	\$000.00	\$0.00	ripping (only as required) to enhance revegetation program
(minor resnaping required)	Structural works, banks, rock lined waterways		Ha	\$1,788.26	\$0.00	This item includes the area requiring earthworks (banks, & drains, etc
	······································				+	manage all surface water on the top of the emplacement to ensure that
						shed off the reshaped area.
	Source, cart and spread topsoil.		m ³	\$1.53	\$0.00	This includes sourcing, carting and spreading of a suitable volume of
					• • • •	cover the reshaped dump.
	Spoil amelioration and supply and spread seed and fertiliser.		Ha	\$4,726.12	\$0.00	This item includes the area requiring the addition of ameliorates such a
						or gypsum prior to the application of grass seed and fertiliser
	Maintenance of rehabilitated areas (up to 5 years)		Ha	\$830.26	\$0.00	This item includes the total area of that have been shaped, topsoiled a
						seeded and requires subsequent fertiliser application. It assumes application
		Descional Ocean	the Demonstr		44.44	twice in the first five (5) years after establishment
		Precinct Secur		••••	\$0.00	
Inshaped Overburden Dumps	Major bulk pushing to achieve grades nominated in the MOP (i.e. <		m ³	\$1.41	\$0.00	This item includes the volume requiring major reshaping, rock raking
(major earthworks required)	18°)					ripping (only as required) to enhance revegetation program
	Structural works, banks, rock lined waterways		Ha	\$1,788,26	\$0.00	This item includes the area requiring earthworks (banks, & drains, etc
					• • • • •	manage all surface water on the top of the emplacement to ensure that
						shed off the cap.
	Source, cart and spread topsoil.		m ³	\$1.53	\$0.00	This includes sourcing, carting and spreading of a suitable volume of t
						cover the reshaped dump.
	Spoil amelioration and supply and spread seed and fertiliser.		Ha	\$4,726.12	\$0.00	This item includes the area requiring the addition of ameliorates such a
				A		or gypsum prior to the application of grass seed and fertiliser
	Maintenance of rehabilitated areas (up to 5 years)		Ha	\$830.26	\$0.00	This item includes the total area of that have been shaped, topsoiled a
						seeded and requires subsequent fertiliser application. It assumes appl
		Precinct Secur	ity Deposit		\$0.00	twice in the first five (5) years after establishment
Other	Other 1 <insert></insert>	i reemet decu	ity Deposit		\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
Other					\$0.00	This item includes < <to added="" be="" by="" operator="" the="">> This item includes <<to added="" be="" by="" operator="" the="">></to></to>
	Other 2 <insert></insert>					
	Other 3 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
		Precinct Secur	ity Deposit		¢0.00	

Precinct Security Deposit	\$0.00	

Total Security Deposit for the "Domain" \$0.00

Sub Domain 4: Surface Disturbance

Detail of person filling out the Works	sheet:			Legend:		
Name	Michelle Grierson	1			Item fixed no entry required	
Position	Environmental Officer				Input from site optional (if informat	ion available)
Department	Health Safety Environment and Community				Input mandatory	
Department	25/08/2015				Input manuatory	
		0			T / 10 /	
Management Precinct Initial Boxcuts & Other Voids	Activity / Description	Quantity	Unit	Unit Price	Total Cost	Description / Notes: This item includes the total area of rehabilitation that have been established
Initial Boxcuts & Other Volus	Dhii & Biast Highwali					and require subsequent fertiliser application. It assumes application twice on
			m ³	\$0.89	\$0.00	the first five (5) years after establishment UNIT RATE: drill & blast + dozer
	Major bulk pushing of the high wall are to achieve grades nominated in			ψ0.05	\$0.00	push This item includes the volume requiring major reshaping, rock raking and de
	the MOP (i.e < 18°)		m ³	\$1.41	\$0.00	ripping (only as required) to enhance revegetation program UNIT RATE: doz
	Final trim, rock rake & deep rip		m	φ1.41	\$0.00	push rate This item includes the area requiring minor reshaping, rock raking and deep
			Ha	\$638.66	\$0.00	ripping (only as required) to enhance revegetation program
	Source, cart and spread topsoil (at 20cm)		m ³	\$1.53	\$0.00	This includes sourcing, carting and spreading of a suitable volume of topsoil t
	Spoil amelioration and supply and spread pasture seed and fertiliser.			\$1.55	\$0.00	cover the reshaped areas This item includes the area requiring the addition of ameliorates such as lime
			На	\$4,726.12	\$0.00	or gypsum prior to the application of grass seed and fertiliser
	Security Fence around steep section highwall			000.07	¢0.00	This item includes the erection of a 2m security fence (lineal metre) around the
	High wall treatment - (trench + safety berm)		m	\$63.87	\$0.00	void and other dangerous areas. This item includes the construction of a safety berm and rill (lineal metre)
	High wail treatment - (trench + salety berm)					around the highwall to stop all vehicles, etc accidentally driving over haul road
			m	\$73.45	\$0.00	(engineered control).
		Precinct Securi	ity Deposit		\$0.00	
Disturbance ahead of Mining +	Areas cleared on the surface - re-establish vegetation commensurate with surrounding vegetation		На	\$2,682.39	\$0.00	This includes the direct application of seed to restore the vegetation that was disturbed as part of clearing operations ahead of the mine.
water management structures	Areas topsoil stripped on the surface - source cart and respread topsoil		па	φ2,002.39	\$0.00	This includes sourcing, carting operations aread of the mine.
	Areas topson stripped on the surface - source cart and respread topson	0	m ³	\$2.55	\$0.00	cover the reshaped areas.
	Reshape, deep rip, ameliorate and seed highwall / internal access			42.00	+	This item includes the area requiring the addition of ameliorates such as lime
	roads and tracks		На	\$6,386.65	\$0.00	or gypsum prior to the application of grass / tree seed and fertiliser
	Reshape, deep rip, ameliorate and seed exploration lines / areas					This item includes the area requiring the addition of ameliorates such as lime
			Ha	\$4,726.12	\$0.00	or gypsum prior to the application of grass / tree seed and fertiliser
		Precinct Securi	ity Deposit		\$0.00	
Dams & Water Holding Structures						This item includes making the dam spillway, and walls stable and ensuring th integrity of the dam wall, etc.
	minor earthworks.		@	\$2,554.66	\$0.00	integrity of the dam wail, etc.
	Dirty Water Dams (Drain and remove sediments to make dam clean					This item includes draining the dam and removing 500mm of potentially
	water)					contaminated (saline) sediments to be buried in the pit. UNIT RATE: must consider the distance from the dam to the disposal area.
			m ³	\$4.09	\$0.00	consider the distance from the dam to the disposal circa.
		Precinct Securi	ity Deposit		\$0.00	
River & Creek Diversions	Creek diversion - Channel maintenance through spoil / backfill (20% of					This item includes the length (m) of diversion requiring ongoing maintenance
	estimated diversion construction costs due to unknown landform					(constructed through unconsolidated overburden). This will include earthwor
	stability)			\$383.20	\$0.00	repairs and stabilisation following flow events. It assumes a suitably qualified engineer has designed and signed off on construction of the diversion
	Creek diversion - Channel maintenance insitu (10% of estimated		m	\$363.20	\$0.00	
	construction cost for diversion)					This item includes the length (m) of diversion requiring ongoing maintenance (constructed through natural ground). This will include earthworks repairs an
						stabilisation following flow events. It assumes a suitably qualified engineer ha
			m	\$191.60	\$0.00	designed and signed off on construction of the diversion
	Creek diversion - Vegetation maintenance		m ²	\$0.38	\$0.00	This item includes the ongoing maintenance of vegetation within the diversion
		Precinct Securi		φ0.00	\$0.00	channel & batters.
Other	Other 1 <insert></insert>	Frecinct Securi	ty Deposit		\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
Other	Other 2 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 3 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
			ity Deposit	1	\$0.00	

Total Security Deposit for the "Domain"

\$0.00

Sub Domain 5: Other

Detail of person filling out the Work	sheet:			Legend:		
Position Department	Michelle Grierson Environmental Officer Health Safety Environment and Community 25/08/2015				Item fixed no entry required Input from site optional (if informat Input mandatory	ion available)
Management Precinct	Activity / Description	Quantity	Unit	Unit Price	Total Cost	Description / Notes:
Other (eg. site contamination, closure plan preparation, etc)	The restoration and care and maintenance of items that have historical significance and are to be retained after the cessation of mining		@	\$25,546.58	\$0.00	This item includes ensuring that sufficient resources are made available to restore items of heritage significance and also provide money to enable the ongoing care and maintenance of the structure (if not the responsibility of any another stateholder in a courcil historical society)
	Cap exploration holes		@	\$319.33	\$0.00	This includes capping & rehabilitation of all old Cap exploration holes around the site
	Construction / Deconstruction of Bridges and crossings		@	\$0.00	\$0.00	Value to be provided by company
	Construction of Fencing - general		@	\$63.87	\$0.00	Includes general fencing around site or site works
	Other 5 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 6 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 7 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 8 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 9 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 10 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
		Precinct Securi	ity Deposit		\$0.00	

Total Security Deposit for the "Domain"

\$0.00

Domain 3: Vent Shaft 1 TOTAL

\$341,111.86

Domain 4: O'Briens Drift

Sub Domain 1: Infrastructure Areas

Detail of person filling out the Worksheet:

Name	Michelle Grierson		Item fixed no entry required
Position	Environmental Officer		Input from site optional (if information available)
Department	Health Safety Environment and Community		Input mandatory
Date	25/08/2015	1	-

Management Precinct Unit Price Total Cost Description / Notes: Activity / Description Quantity Unit Pit Top Infrastructure Disconnect and terminate services @ \$31,933.23 \$31.933.23 includes disconnecting and terminating all services such as power, water and sewer This item includes the cost to terminate and remove powerlines, and is based on the average in the second s Disconnect and terminate powerlines \$14,050.62 \$0.00 km construct. Demolish and remove small buildings \$89.41 \$0.00 nter the total area of small buildings and offices in the CHPP area. It should not in m² emountables which can be removed from site. It does not include worksh nter the total area of workshop facilities in the CHPP area. emolish and remove industrial buildings m² \$204.37 \$0.00 Enter the total surface area of the CHPP. If the CHPP is multi-story the entry should be the sur \$204.37 \$504,391.75 Demolish and remove Misc Plant 2468 m² f the surface area for all floors. \$70.25 emolish and remove conveyors & gantries (includes \$0.00 m nter the sum of the total length of conveyor and gantries. eas of conveyor from hoppers feeding back to the CHPP. This includes conveyor to rail loa erland conveyors) nter the total area the CHPP, workshops and buildings emove Concrete pads and Footings \$31,524.48 \$12.77 2468 m² Deconstruct Large Tanks (e.g. Thickener) Deconstruct Small Tanks (e.g. Thickener) \$191,599.3 Enter the number of tanks to be removed from the site 0 \$0.00 \$60,883.94 \$0.00 Enter the number of tanks to be removed from the site @ Enter the total volume (ie. area x depth of material) to be scalped off for dispo JNIT RATE: Depends on the haulage distance to the point where the materia \$3.32 \$0.00 emove carbonaceous material (spillage or otherwise) om footprint of the CHPP, ROM & Product stockpiles m³ onveyors and workshops inal trim, rock rake & deep rip 0.2 Ha \$638.66 \$157.62 This item includes the areas requiring minor reshaping, rock raking and deep ripping to enhance evegetation program. This would include the entire CHPP area. 740.4 \$1.53 \$1,134.88 Source, cart and spread topsoil. e of topsoil to cover the CHP m³ is includes sourcing, carting and spreading of a suitabl rea C comment 17/09/14 - Assume 0.3m depth Topsoil This item includes the area requiring the addition of ameliorates such as lime or gypsum prior he application of grass seed and fertiliser \$4,726.12 Spoil amelioration and supply and spread seed and 0.2 \$1,166.41 Ha ertiliser. recinct Se \$570,308.38 \$7.66 Rail Line and Loop emove Rail Loop and spur m \$0.00 This item includes the pulling up and removal from site of railway line and sleepers. Calculated a lineal metre his item includes the areas requiring reshaping once the rail line, sle \$6,386.65 \$0.00 Reshape rail spur and load out area Ha \$638.66 \$0.00 nal trim, rock rake & deep rip Ha ncludes the Sitem includes the mean requiring the addition of ameliorates such as lime or gypsum prior in them includes the area requiring the addition of ameliorates such as lime or gypsum prior Spoil amelioration and supply and spread pasture see \$4,726.12 \$0.00 Ha he application of grass seed and fertiliser nd fertiliser. Precinct Security Depos \$0.00 his item includes disconnecting and terminating all services such as power, water and sewer. a "one off" cost \$6,386.65 isconnect and terminate services Main Workshop Area @ \$0.00 Enter the total area of small buildings and offices in the workshop area. It should not include Demolish and remove small buildings \$89.41 \$0.00 m² emountables which can be removed from site. It does not include workshops. nter the total area of workshop facilities in the area. Include all remote or field based workshop Demolish and remove industrial buildings \$204.37 \$0.00 m² areas \$12.77 \$0.00 nter the total area the workshops and buildings. Include the area of any bitumen car parks (o Remove Concrete pads, Footings and bitumen (car 0 m² ark) for dumping in a void on the site imilar). It would also include vehicle washdown pads, bulk fuel bunding area and refuelling areas (i.e. all concrete areas in the workshop precinct)) Enter the total volume (ie. area x depth of material) to be scalped off for disposal. UNIT RATE: Depends on the haulage distance to the point where the material is to be disposed. IC comment 17/09/14 - Assume 0.2m depth of material emove contaminated material from workshop and \$2.55 \$0.00 m³ ardstand areas for disposal in the decline void AND/OR Reshaping, capping, sealing of material presenting environmental difficulties (AMD, Hydrocarbon materia Ha \$57,479,81 \$0.00 Enter the total area of material requiring capping or sealing. Where assessments have already been made and the presence/absence of contaminated aterial is know (and quantified) an alternative rate can be used. If this work has not been tc) indertaken, a de efault rate per UGT is to be util \$95,799.69 Removal of UG tank (including pipes, bunds, etc) \$0.00 @ nclude all facilities on site) \$63.87 \$0.00 ent of the volume of contaminated soil has bee n made this volume is to be On site remediation of contaminated soil (<1000m³) m³ ncluded. Where the volume in <u>not known</u> or has not been quantified a default volume of 3000r er fuel storage facility is to be used in cell C:37. here an assessment of the volume of contaminated material has been made this volume is to be On site remediation of contaminated soil (1000 m \$51.09 \$0.00 cluded. Where the volume in not know or has not been quantified a default volume of 3000m 10,000m³) er fuel storage facility is to be used. \$38.32 \$0.00 here an assessment of the volume of contaminated soil has been made this volume is to be On site remediation of contaminated soil (>10.000m³) m cluded. Where the volume in not known or has not been quantified a default volume of 3000n er fuel storage facility is to be used in cell C:37. his item includes the area requiring minor reshaping, rock raking and deep ripping (only as Final trim, rock rake & deep rip Ha \$638.66 \$0.00 0 equired) to enhance revegetation program This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the Source, cart and spread topsoil. \$1.53 0 m³ \$0.00 vorkshop area. his item includes the area requiring the addition of ameliorates such as lime or gypsum prior t e application of grass seed and fertiliser \$4,726.12 \$0.00 Spoil amelioration and supply and spread seed and 0 Ha ertiliser. Precinct Security Depos \$0.00 \$6,386.65 Admin Buildings isconnect and terminate services @ \$0.00 his item includes disconnecting and terminating all services such as power, water and sewer. s a "one off" cost Demolish and remove small buildings \$89.41 \$0.00 nter the total area of small buildings and offices in the admin area. It should not include m emountables which can be removed from site. It does not include workshops. nter the total area of workshop facilities in the admin area. Demolish and remove industrial buildings \$204.37 \$0.00 m² nter the total area the workshops and buildings. Include the area of any bitumen car parks (Remove Concrete pads, Footings and bitumen (car \$12.77 \$0.00 m² imilar park) inal trim, rock rake & deep rip \$638.66 This item includes the area requiring minor reshaping, rock raking and deep ripping (only as 0 На \$0.00 equired) to enhance revegetation program his includes sourcing, carting and spreading of a suitable vol Source, cart and spread topsoil \$1.53 \$0.00 lume of topsoil to co m ea. C comment 17/09/14 - Assume 0.3m deoth tossoil Enter the total area of the admin, etc footprint requiring to be covered with fertiliser (and/or lime typsum) prior to seeding INIT RATE: Depends the required rehabilitation commitment (ie. Trees will be more expensive \$4,726.12 \$0.00 Spoil a melioration and supply and spread pasture see Ha and fertiliser. Precinct Security Deposi \$0.00 Access Roads & Haul Roads Remove carbonaceous material from roadways (coal / \$3.32 nter the total volume (ie. area x depth of material) to be scalped off for disposal. INIT RATE: Depends on the haulage distance to the point where the material is to be disposed. 3035 m³ \$10,079.40 ejects spillage) nter the total area of the road footprint requiring to be covered with fertiliser (and/or lime 8 Reshape deep rip and ameliorate sealed / unsealed 0.3035 Ha \$6,386.65 \$1,938.35 ypsum) prior to seeding JNIT RATE: Depends the required rehabilitation commitment (ie. Trees will be more expensive bads \$1.53 \$1,395.61 his includes sourcing, carting and spreading of a suitable volume of topsoil to cover the access Source, cart and spread topsoil. 910.5 m³ ads & haul roads. C comment 17/09/14 - Assume 0.3 m depth topsoil This item includes the area requiring the addition of ameliorates such as lime or gypsum pric he application of grass seed and fertiliser Spoil amelioration and supply and spread seed and \$4,726.12 \$1,434.38 0.3035 Ha ertiliser Precinct Sec \$14,847.74 \$3,193.32 werage / Water Treatment Pl isconnect and terminate services 0 \$0.00 em includes disconnecting and terminating all services such as power, water and sewer is a "one off" cost Enter the total area of small buildings and tanks. Demolish and remove small buildings / tanks \$89.4 m² \$0.00 Remove contaminated material from areas for dispose 0 m³ \$2.55 \$0.00 Enter the total volume (ie. area x depth of material) to be scalped off for disposal. JNIT RATE: Depends on the haulage distance to the point where the material is to be disposed e. chemical spillage in / around storage sheds). his item includes the area requiring minor reshaping, rock raking and deep ripping (only as Final trim, rock rake & deep rip \$638.66 \$0.00 Ha 0 equired) to enhance revegetation program his includes sourcing, carting and spreading of a suitable volume of topsoil to cover the Source, cart and spread topsoil. m³ \$1.53 \$0.00 werage / water treatment plant. Spoil amelioration and supply and spread seed and \$4,726.12 \$0.00 0 Ha This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser

Legend:

		Precinct Security Deposit			\$0.00		
Hardstand /Laydown Areas (across the entire site)	Remove contaminated material from areas for disposal (ie. chemical/hydrocarbon spillage in the hard stand area).		m³	\$2.55	\$0.00	Enter the total volume (ie. area x depth of material) to be scalped off for disposal. UNIT RATE: Depends on the haulage distance to the point where the material is to be disposed.	
	Deep rip hard stand / laydown areas		Ha	\$638.66	\$0.00	This item includes ripping hard stand and lay down areas to enhance the rehabilitation program.	
	Source, cart and spread topsoil.		m³	\$1.53	\$0.00	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the hard stands and lay down areas	
	Spoil amelioration and supply and spread seed and fertiliser.		Ha	\$4,726.12	\$0.00	This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser	
		Precinct Secur	ity Deposit		\$0.00		
Underground Infrastructure	Seal Portal / Decline Entry		@	\$28,101.24	\$0.00	This includes sealing the portal to make safe and ensure access can not be obtained. The number of portals for the whole mine is to be included	
	Seal & rehabilitate of ventilation fans.		@	\$31,933.23	\$0.00	This includes sealing & rehabilitation of the ventilation fans to make safe. The number of ventilation fans for the whole mine is to be included.	
	Shaft filling		m ³	\$24.35	\$0.00	This includes filling of shafts using onsite material.	
	Shaft capping/sealing		@	\$12,176.79	\$0.00	Simple capping/sealing to DRE standards	
	De-watering Bores		@	\$3,831.99	\$0.00	This includes sealing & rehabilitation of the dewatering bores to make safe. The total number of dewatering bores for the whole mine is to be included.	
	Cap exploration holes		@	\$319.33	\$0.00	This includes capping & rehabilitation of all old Cap exploration holes around the site	
	Minor earthworks and maintenance of mine subsidence areas		На	\$1,277.33	\$0.00	This includes undertaking surface drainage works, etc as required to remediate areas affected by Mine subsidence (outside the jurisdiction of the mine subsidence board)	
		Precinct Secur	ity Deposit		\$0.00		
Other	Other 1 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>	
	Other 2 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>	
	Other 3 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>	
		Precinct Secur	ity Deposit		\$0.00		

Total Security Deposit for the "Domain"

\$585,156.12

Sub Domain 2: Tailings & Rejects Emplacements (1)

ete a separate sheet for each tailings da nt on the site Detail of person filling out the Worksheet: Legend: Aichelle Grierson n fixed no entry required Name nvironmental Officer Position nput from site optional (if information available) Health Safety Environment and Community nput mandatory Department 25/08/2015 Date Tailings Dam / Impoundment (Key Information): Materials Stored (ie. coal fines, coarse or co-disposed) Volume Stored (m3) Maximum Embankment Height (m) Maximum Embankment Length (m) Year Dam / Emplacement Commissioned Storage area (ha) Catchment Area of Tailings Dam / Emplacement (ha) Briefly describe embankment construction. (earthen, clay /rejects core, etc) Description / Notes: Activity / Description Unit Price otal Cost ent Precinct Unit This includes sourcing, carting and spreading of a suitable volume material to cap t emplacement. The material must have appropriate chemical & physical properties. Source, cart and spread suitable material to cap the material to cap the tailings ilings Dams / Emplacemer m³ \$2.55 \$0.00 ailings emplacement (cap thickness determined by NOP) \$57,479.81 Apply engineered treatment as required (i.e. capping, This includes the area that requires engineering treatment is required to satisfy conditions of the MOP, This may include compaction or addition of multiple layers and / or capillary breaks. Ha \$0.00 apillary breaks, etc) - design in accordance with the IOP commit Reshape walls / buttress around the dam / emplaceme Ha \$6,386.65 \$0.00 This includes the area that requires stabilisation and reshaping works around the walls of the emplacement (i.e. removal of rills and pipes that may present long term stability issues) earthworks only inal trim, rock rake & deep rip \$638.66 includes the area requiring minor reshaping, rock raking and deep ripping (only as \$0.00 Ha quired) to enhance revegetation program tructural works, banks waterways \$1,788.26 \$0.00 vorks (banks, & drains, etc) to manage all surfa-Ha is item includes the area requiring earthworks (banks, & drains, etc) to manage all surface ater on the top of the emplacement to ensure that it is shed off the cao. is includes sourcing, carting and spreading of a suitable volume of topsoil to cover the tail Source, cart and spread topsoil. \$1.53 \$0.00 m³ I'ms includes sourching, can ing airs aproximity or a solucion channe or opson to correr the taum dan / emploaement. This item includes the area requiring the addition of ameliorates such as lime or gypsum prior the application of grass seed and fertiliser \$4,726.12 Spoil amelioration and supply and spread seed and Ha \$0.00 artiliser. his item includes the total area of rehabilitation that has been established and requires ubsequent fertiliser application. It assumes application twice on the first five (5) years after laintenance of rehabilitated areas (up to 5 years) \$830.26 \$0.00 Ha stablishment Precinct Security Deposi \$0.00 \$0.00 \$0.00 Other Other 1 <insert> his item includes <<to be added by the his item includes <<to be added by the ther 2 <insert> This item includes <<to be added by the op Other 3 <insert> \$0.00 recinct Secu y Depos \$0.00 Source, cart and spread suitable material to cap the \$2.55 This includes sourcing, carting and spreading of a suitable volume material to cap the coarse ejects emplacement. The material must have appropriate chemical & physical properties. Coarse Rejects Emplacemer m³ \$0.00 arse rejects emplacement (cap thickness dete V MOP) This includes the area that requires engineering treatment is required to satisfy conditions of the MOP, This may include compaction or addition of multiple layers and / or capillary breaks. Apply engineered treatment as required (i.e. capping, capillary breaks, etc) - design in accordance with the \$57,479.81 Ha \$0.00 IOP commitm Final trim, rock rake & deep rip \$638.66 This item includes the area requiring minor reshaping, rock raking and deep ripping (only as Ha \$0.00 This item includes the area requiring minor reshaping, rock raking and deep ripping (only as required) to enhance revegedation program. This item includes the area requiring earthworks (banks, & drains, etc) to manage all surface water on the top of the emplacement to ensure that it is shed off the cap. This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the tailings dam / emplacement. This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser Structural works, banks waterways \$1,788.26 Ha \$0.00 ource, cart and spread topsoil \$1.53 \$0.00 m³ Spoil amelioration and supply and spread seed and Ha \$4,726.12 \$0.00 rtiliser. Maintenance of rehabilitated areas (up to 5 years) \$830.26 This item includes the total area of rehabilitation that has been established and requires subsequent fertiliser application. It assumes application twice on the first five (5) years after Ha \$0.00 stablishment \$0.00 Othe Other 1 <insert> item includes <<to be a \$0.00 \$0.00 d by the operation This item includes <<to be added by the operator Other 2 <insert> ther 3 <insert: \$0.00 his item includes · nct Security Dep \$0.00

Total Security Deposit for the "Domain"

\$0.00

Sub Domain 3: Overburden & Waste Dumps

Detail of person filling out the Worksheet:

		-				
Name	Michelle Grierson				Item fixed no entry required	
Position	Environmental Officer				Input from site optional (if inform	nation available)
Department	Health Safety Environment and Community				Input mandatory	
Date	25/08/2015				-	
Management Precinct	Activity / Description	Quantity	Unit	Unit Price	Total Cost	Description / Notes:
Successful Rehabilitation	Maintenance of Established Revegetated Area		Ha	\$830.26	\$0.00	This item includes the total area of rehabilitation that have been established and require
						subsequent fertiliser application. It assumes application twice on the first five (5) years af
				* ****	40.00	establishment
	Maintenance of Shaped Topsoiled and Seeded		На	\$830.26	\$0.00	This item includes the total area of that have been shaped, topsoiled and seeded and reque subsequent fertiliser application. It assumes application twice in the first five (5) years after
						establishment
		Precinct Secur	ity Deposit		\$0.00	establishment
Shaped Overburden Dumps	Final trim, rock rake & deep rip		Ha	\$638.66	\$0.00	This item includes the area requiring minor reshaping, rock raking and deep ripping (only
						required) to enhance revegetation program
	Structural works, banks, rock lined waterways		На	\$1,788.26	\$0.00	This item includes the area requiring earthworks (banks, & drains, etc) to manage all surface
	Devues and and anneal tenseil		3	\$1.53	\$0.00	water on the top of the emplacement to ensure that it is shed off the reshaped area. This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the
	Source, cart and spread topsoil.		m ³	\$1.53	\$0.00	reshaped dump.
	Spoil amelioration and supply and spread seed and		На	\$4,726,12	\$0.00	This item includes the area requiring the addition of ameliorates such as lime or gypsum p
	fertiliser.			•	÷0.00	the application of grass seed and fertiliser
	Maintenance of rehabilitated areas (up to 5 years)		На	\$830.26	\$0.00	This item includes the total area of that have been shaped, topsoiled and seeded and requ
	(-+ ,,				*****	subsequent fertiliser application. It assumes application twice in the first five (5) years after
						establishment
		Precinct Secur	rity Deposit		\$0.00	
Unshaped Overburden	Minor pushing, final trim, rock rake & deep rip		На	\$638.66	\$0.00	This item includes the area requiring minor reshaping, rock raking and deep ripping (only
Dumps	Structural works, banks, rock lined waterways		На	\$1.788.26	\$0.00	required) to enhance revegetation program This item includes the area requiring earthworks (banks, & drains, etc) to manage all surfa
(minor reshaping required)	Structural works, banks, rock lined waterways		па	\$1,700.20	\$0.00	water on the top of the emplacement to ensure that it is shed off the reshaped area.
	Source, cart and spread topsoil.		m ³	\$1.53	\$0.00	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the
				• •	•••••	reshaped dump.
	Spoil amelioration and supply and spread seed and		Ha	\$4,726.12	\$0.00	This item includes the area requiring the addition of ameliorates such as lime or gypsum p
	fertiliser.					the application of grass seed and fertiliser
	Maintenance of rehabilitated areas (up to 5 years)		Ha	\$830.26	\$0.00	This item includes the total area of that have been shaped, topsoiled and seeded and requ
						subsequent fertiliser application. It assumes application twice in the first five (5) years after
		Precinct Secur	ity Deperit		* 0.00	establishment
		Precinct Secur		A 1 11	\$0.00	White these basis does the conference on the second second sector and sector second second second sector de-
Unshaped Overburden	Major bulk pushing to achieve grades nominated in the		m ³	\$1.41	\$0.00	This item includes the volume requiring major reshaping, rock raking and deep ripping (o required) to enhance revegetation program
Dumps	MOP (i.e. < 18°)					. ,
(major earthworks required)	Structural works, banks, rock lined waterways		Ha	\$1,788.26	\$0.00	This item includes the area requiring earthworks (banks, & drains, etc) to manage all surface and the temperature that it is about off the area
	Source, cart and spread topsoil.		m ³	\$1.53	\$0.00	water on the top of the emplacement to ensure that it is shed off the cap. This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the
	oouroe, can and spread topsoli.		m-	φ1.00	\$0.00	reshaped dump.
	Spoil amelioration and supply and spread seed and		На	\$4,726.12	\$0.00	This item includes the area requiring the addition of ameliorates such as lime or gypsum p
						the opplication of group and and fartilizer

Legend:

	Source, cart and spread topsoil.		m ³	\$1.53	\$0.00	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the reshaped dump.
	Spoil amelioration and supply and spread seed and fertiliser.		На	\$4,726.12		This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser
	Maintenance of rehabilitated areas (up to 5 years)		Ha	\$830.26		This item includes the total area of that have been shaped, topsoiled and seeded and requires subsequent fertiliser application. It assumes application twice in the first five (5) years after establishment
		Precinct Secur	ity Deposit		\$0.00	
Other	Other 1 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 2 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 3 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
		Precinct Secur	ity Deposit		\$0.00	

Total Security Deposit for the "Domain"

\$0.00

Sub Domain 4: Surface Disturbance

Detail of person filling out the	Worksheet:			Legend:		
Name	Michelle Grierson	1			Item fixed no entry required	
Position	Environmental Officer	1			Input from site optional (if information	available)
Department	Health Safety Environment and Community	-			Input mandatory	an -
Date	25/08/2015					
Management Precinct	Activity / Description	Quantity	Unit	Unit Price	Total Cost	Description / Notes:
Initial Boxcuts & Other Voids		quantity	onn	onit i fice	Total Cost	This item includes the total area of rehabilitation that have been established and require
			m ³	\$0.89	\$0.00	subsequent fertiliser application. It assumes application twice on the first five (5) years after establishment UNIT RATE: drill & blast + dozer push
	Major bulk pushing of the high wall are to achieve grades nominated in the MOP (i.e < 18°)		m ³	\$1.41	\$0.00	This item includes the volume requiring major reshaping, rock raking and deep ripping (only as required) to enhance revegetation program UNIT RATE: dozer push rate
	Final trim, rock rake & deep rip		На	\$638.66	\$0.00	This item includes the area requiring minor reshaping, rock raking and deep ripping (only as required) to enhance revegetation program
	Source, cart and spread topsoil (at 20cm)		m ³	\$1.53	\$0.00	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the reshaped areas
	Spoil amelioration and supply and spread pasture seed and fertiliser.		Ha	\$4,726.12	\$0.00	This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser
	Security Fence around steep section highwall		m	\$63.87	\$0.00	This item includes the erection of a 2m security fence (lineal metre) around the void and other dangerous areas.
	High wall treatment - (trench + safety berm)		m	\$73.45	\$0.00	This item includes the construction of a safety berm and rill (lineal metre) around the highwall to stop all vehicles, etc accidentally driving over haul road (engineered control).
		Precinct Securi	ity Deposit		\$0.00	top an venicies, de decidentary driving ordentida (engineered control).
Disturbance ahead of Mining + water management	Areas cleared on the surface - re-establish vegetation commensurate with surrounding vegetation					This includes the direct application of seed to restore the vegetation that was disturbed as part of clearing operations ahead of the mine.
structures			Ha	\$2,682.39	\$0.00	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the
	Areas topsoil stripped on the surface - source cart and respread topsoil		m ³	\$2.55	\$0.00	reshaped areas.
	Reshape, deep rip, ameliorate and seed highwall / internal access roads and tracks		Ha	\$6,386.65	\$0.00	This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass / tree seed and fertiliser
	Reshape, deep rip, ameliorate and seed exploration lines / areas		Ha	\$4,726.12	\$0.00	This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass / tree seed and fertiliser
		Precinct Securi	ity Deposit		\$0.00	
Dams & Water Holding Structures	Clean water dams to be retained after mine closure - make safe and minor earthworks.		@	\$2,554.66	\$0.00	This item includes making the dam spillway, and walls stable and ensuring the integrity of the dam wall, etc.
	Dirty Water Dams (Drain and remove sediments to make dam clean water)		-			This item includes draining the dam and removing 500mm of potentially contaminated (saline) sediments to be buried in the pit. UNIT RATE: must consider the distance from the dam to the disposal area.
			m ³	\$4.09	\$0.00	uispusai alea.
		Precinct Securi	ity Deposit		\$0.00	
River & Creek Diversions	Creek diversion - Channel maintenance through spoil / backfill (20% of estimated diversion construction costs due to unknown landform stability)		m	\$383.20	\$0.00	This item includes the length (m) of diversion requiring ongoing maintenance (constructed throug unconsolidated overburden). This will include earthworks repairs and stabilisation following flow events. It assumes a suitably qualified engineer has designed and signed off on construction of the diversion
	Creek diversion - Channel maintenance insitu (10% of estimated construction cost for diversion)		m	\$191.60	\$0.00	This item includes the length (m) of diversion requiring ongoing maintenance (constructed throug natural ground). This will include earthworks repairs and stabilisation following flow events. It assumes a suitably qualified engineer has designed and signed off on construction of the diversion.
	Creek diversion - Vegetation maintenance		m ²	\$0.38	\$0.00	This item includes the ongoing maintenance of vegetation within the diversion channel & batters.
		Precinct Securi	ty Deposit		\$0.00	
Other	Other 1 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 2 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 3 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
		Precinct Securi	ty Deposit		\$0.00	

Total Security Deposit for the "Domain"

\$0.00

Sub Domain 5: Other

Detail of person filling out the Worksheet:

	Michelle Grierson
	Environmental Officer
Department	Health Safety Environment and Community
Date	25/08/2015

Legend:

Item fixed no entry required Input from site optional (if information available) Input mandatory

Management Precinct	Activity / Description	Quantity	Unit	Unit Price	Total Cost	Description / Notes:
	The restoration and care and maintenance of items that		@	\$25,546.58		This item includes ensuring that sufficient resources are made available to restore items of
	have historical significance and are to be retained after the cessation of mining					heritage significance and also provide money to enable the ongoing care and maintenance of the structure (if not the responsibility of any another stakeholder i.e. council, historical society)
	Cap exploration holes		@	\$319.33	\$0.00	This includes capping & rehabilitation of all old Cap exploration holes around the site
	Construction / Deconstruction of Bridges and crossings		@	\$0.00	\$0.00	Value to be provided by company
	Construction of Fencing - general		@	\$63.87	\$0.00	Includes general fencing around site or site works
	Other 5 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 6 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 7 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 8 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 9 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 10 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
		Precinct Secur	ity Deposit		\$0.00	

Total Security Deposit for the "Domain"

\$0.00

Domain 3: O'Briens Drift TOTAL

\$585,156.12

Domain 5: Cordeaux Pit Top

Sub Domain 1: Infrastructure Areas

Detail of person filling out the Worksheet:

Name	Michelle Grierson
Position	Environmental Officer
Department	Health Safety Environment and Community
Date	25/08/2015

Item fixed no entry required Input from site optional (if information available) Input mandatory

Legend:

Note of the section of the	Management Precinct	Activity / Description	Quantity	Unit	Unit Price	Total Cost	Description / Notes:			
	Pit Top Infrastructure		1	@		\$31,933.23	This item includes disconnecting and terminating all services such as power, water and sewer. It is a "one off" cost			
				km			average cost to construct.			
Index of the problemJob (Job (Job (Job (Job (Job (Job (Job (Demolish and remove small buildings		m²	\$89.41	\$0.00				
		Demolish and remove industrial buildings		m ²	\$204.37	\$0.00	Enter the total area of workshop facilities in the CHPP area.			
		Demolish and remove Misc Plant	2884	m²	\$204.37	\$589,410.78	Enter the total surface area of the CHPP. If the CHPP is multi-story the entry should b			
				m	\$70.25	\$0.00	Enter the sum of the total length of conveyor and gantries. This includes conveyor to r			
Second part of the second part of		Remove Concrete pads and Footings	119649				Enter the total area of the pit top, workshops and buildings.			
NumberNum			2							
Partner (1998) Partner (1998) Partner (1998) Partner				m ³	\$3.32	\$0.00	UNIT RATE: Depends on the haulage distance to the point where the material is to be			
Image: state in the		conveyors and workshops			6 000 00					
							enhance revegetation program. This would include the entire CHPP area.			
Note		Source, cart and spread topsoli.	35,895	m	\$1.53	\$55,019.22	CHPP area.			
IncreaseNote is a set of the			11.9649	На	\$4,726.12	\$56,547.53	This item includes the area requiring the addition of ameliorates such as lime or gypsur			
Note of a value of the set of t			Precinct Securi	ty Deposit		\$2,390,631.81				
NUME NUME <t< td=""><td>Rail Line and Loop</td><td>Remove Rail Loop and spur</td><td></td><td>m</td><td>•</td><td></td><td>Calculated as a lineal metre</td></t<>	Rail Line and Loop	Remove Rail Loop and spur		m	•		Calculated as a lineal metre			
Image: Problem in the second secon						• • • • •	been removed.			
Name Name <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>required) to enhance revegetation program</td></t<>							required) to enhance revegetation program			
No.					\$4,726.12	\$0.00				
Number Number Number Number Number Rest of statement (Control (C	Main Workshon Area	Disconnect and terminate services	Precinct Securi	ty Deposit @	\$6,386,65		This item includes disconnecting and terminating all services such as power, water and			
Image: state of the				0	0,000100	<i>40.00</i>				
Note of the section of the										
Image: Section of the secti		Demolish and remove small buildings		m²	\$89.41	\$0.00	Enter the total area of small buildings and offices in the workshop area. It should not include demountables which can be removed from site. It does not include workshops.			
Results of the state		Demolish and remove industrial buildings	1516	m ²	\$204.37	\$309,828.97	Enter the total area of workshop facilities in the area. Include all remote or field based			
Number of the strain		Remove Concrete pads, Footings and bitumen (car	5805		\$12.77	\$74,148.96	Enter the total area the workshops and buildings. Include the area of any bitumen car			
Numerical sector of the sector of t		park) for dumping in a void on the site								
Numerical sector of the sector of t		Demous contenting to the set	1052.5		60.77	Ap	IC Comment - Covered above under Pit Top Infrastructure			
Note Note Note Note Note Note N		hardstand areas for disposal in the decline void	1959.8	m ³	\$2.55	\$5,006.62	UNIT RATE: Depends on the haulage distance to the point where the material is to be			
main main </td <td></td> <td>AND/OR</td> <td></td> <td>Li e</td> <td>¢67 470 04</td> <td>\$0.00</td> <td>IC Comment - Assume 0.2m depth of material</td>		AND/OR		Li e	¢67 470 04	\$0.00	IC Comment - Assume 0.2m depth of material			
Anter Baile of Series (adding the series of Series Seri		environmental difficulties (AMD, Hydrocarbon material,		на	\$57,479.81	\$0.00	Where assessments have already been made and the presence/absence of contamination			
Number of the section of th				P	\$95,799,69	\$0.00	undertaken, a de			
Image: Section of the secti		(include all facilities on site)		-						
Base sector		On site remediation of contaminated soil (<1000m ³)		m ³	\$63.87	\$0.00	where an assessment of the volume of contaminated soil has been made this volume in be included. Where the volume in <u>not known</u> or has not been quantified a default volume			
Data means Data means <thdata means<="" th=""> Data means Data me</thdata>		On site remediation of contaminated soil		m ³	\$51.09	\$0.00	where an assessment of the volume of contaminated material has been made this volu			
Indemotional and encoders Image: Section of the section				3	¢20.22	<u>to oo</u>	of 3000m ³ per fuel storage facility is to be used			
Image: Problem in the state of th		On site remediation of contaminated soil (>10,000m ³)		m°	\$38.32	\$0.00	be included. Where the volume in not known or has not been quantified a default volu			
Image: Section of the secti		Final trim, rock rake & deep rip		На	\$638.66	\$0.00	This item includes the area requiring minor reshaping, rock raking and deep ripping (or			
Base of the second s										
Anter bail Anter bain anter bail Anter bail		Source, cart and spread topsoil.		m ³	\$1.53	\$0.00	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the			
Bits Field Field <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>										
Answer Answer Answer Answer Answer Answer Answer				На	\$4,726.12	\$0.00	This item includes the area requiring the addition of ameliorates such as lime or gypsur			
Ability Building							IC Comment - Covered above under Pit Top Infrastructure			
Instable Art menos and hakking 200 all 100.00 100.00 100.00	Admin Buildings	Disconnect and terminate services	Precinct Securit	ty Deposit		\$388,984,55				
Image: Control of an intervence output building Image:				a	\$6,386.65		This item includes disconnecting and terminating all services such as power, water and			
Rooms Control point Participant Partners (Part Part Part Part Part Part Part Part		Demolish and remove small buildings	2820	@ m ²		\$6,386.65	sewer. It is a "one off" cost Enter the total area of small buildings and offices in the admin area. It should not inclu			
pick pick <t< td=""><td></td><td>-</td><td>2820</td><td></td><td>\$89.41</td><td>\$6,386.65 \$252,144.78</td><td>Enter the total area of small buildings and offices in the admin area. It should not inclue demountables which can be removed from site. It does not include workshops.</td></t<>		-	2820		\$89.41	\$6,386.65 \$252,144.78	Enter the total area of small buildings and offices in the admin area. It should not inclue demountables which can be removed from site. It does not include workshops.			
Image: Part No. 100 to 100		Demolish and remove industrial buildings	2820	m²	\$89.41 \$204.37	\$6,386.65 \$252,144.78 \$0.00	sever, It is a "one off cost Enter the total area of small buildings and offices in the admin area. It should not inclu demountables which can be removed from site. It does not include workshops. Enter the total area of workshop facilities in the admin area.			
Image: Section of sec		Demolish and remove industrial buildings Remove Concrete pads, Footings and bitumen (car	2820	m²	\$89.41 \$204.37	\$6,386.65 \$252,144.78 \$0.00	sever, I lis a "one off cost Enter the total area of small buildings and offices in the admin area. It should not inclu demountables which can be removed from site. It does not include workshops. Enter the total area of workshop facilities in the admin area. Enter the total area the workshops and buildings. Include the area of any bitumen car			
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Other 3 <insert> So.00 This item includes <<to added="" be="" by="" operator="" the="">></to></insert>	Sewerage / Water Treatment Plant Hardstand /Laydown Areas (across the entire site) Underground Infrastructure	Demolish and remove industrial buildings Remove Concrete pads, Footings and bitumen (car park) Final trim, rock rake & deep rip Source, cart and spread topsoil. Spoil amelioration and supply and spread pasture seed and fertiliser. Remove carbonaceous material from roadways (coal / rejects spillage) Reshape deep rip and ameliorate sealed / unsealed roads Source, cart and spread topsoil. Spoil amelioration and supply and spread seed and fertiliser. Disconnect and terminate services Demolish and remove small buildings / tanks Remove contaminated material from areas for disposal (ie, chemical spillage in / around storage sheds). Final trim, rock rake & deep rip Source, cart and spread topsoil. Spoil amelioration and supply and spread seed and fertiliser. Source, cart and spread topsoil. Spoil amelioration and supply and spread seed and fertiliser. Source, cart and spread topsoil. Spoil amelioration and supply and spread seed and fertiliser. Source, cart and spread topsoil. Spoil amelioration and supply and spread seed and fertiliser. Source, cart and spread topsoil. Spoil amelioration and supply and spread seed and fertiliser. Seal Portal / laydown areas Source, cart and spread topsoil. Spoil amelioration and supply and spread seed and fertiliser. Seal Portal / Decline Entry Seal & rehabilitate of ventilation fans. Shaft filling Shaft capping/sealing De-watering Bores Cap exploration holes Minor earthworks and maintenance of mine subsidence areas	Precinct Securi 40352 Precinct Securi 84 0 Precinct Securi 2537 0.2537 Precinct Securi 2 2 2	m ² m ² Ha Ha m ³ Ha m ³ Ha Ma Ma Ma Ma Ma Ma Ma Ma Ma M	\$89.41 \$204.37 \$12.77 \$638.66 \$1.53 \$4,726.12 \$3.32 \$6,386.65 \$1.53 \$4,726.12 \$3,193.32 \$89.41 \$2.55 \$638.66 \$1.53 \$4,726.12 \$255 \$638.66 \$1.53 \$4,726.12 \$2,55 \$638.66 \$1.53 \$4,726.12 \$2,55 \$638.66 \$1.53 \$4,726.12 \$2,55 \$638.66 \$1.53 \$4,726.12 \$2,55 \$638.66 \$1.53 \$4,726.12 \$2,55 \$638.66 \$1.53 \$4,726.12 \$2,55 \$638.66 \$1.53 \$4,726.12 \$2,55 \$638.66 \$1.53 \$4,726.12 \$2,55 \$638.66 \$1.53 \$4,726.12 \$2,55 \$638.66 \$1.53 \$4,726.12 \$2,55 \$638.66 \$1.53 \$4,726.12 \$2,55 \$638.66 \$1.53 \$4,726.12 \$2,55 \$638.66 \$1.53 \$4,726.12 \$2,55 \$638.66 \$1.53 \$4,726.12 \$2,55 \$638.66 \$1.53 \$4,726.12 \$2,55 \$638.66 \$1.53 \$4,726.12 \$2,55 \$638.66 \$1.53 \$4,726.12 \$2,55 \$638.66 \$1.53 \$4,726.12	\$6,386,65 \$252,144.78 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$134,011.25 \$0.00 \$0.00 \$134,011.25 \$0.00 \$134,011.25 \$0.00 \$0.00 \$134,011.25 \$0.00 \$0.00 \$1,510.70 \$0.00	aware, this a 'one off' cost fenter the total area of small buildings and offices in the admin area. It should not inclu- demountables which can be removed from site. It does not include workshops. Enter the total area of workshops and buildings. Include the area of any bitumen car (or similar) IC Comment - Covered above under PE Too Infrastructures This firm includes the area requiring minor reshaping, rock raking and deep ripping (or required) to annoce revegatation program IC Comment - Covered above under PE Too Infrastructure This includes sourcing, carting and spreading of a suitable volume of topsoil to cover t admin area. Enter the total area of the admin, etc footprint requiring to be covered with fertiliser (an ime & gypasm) prior to seeding UNIT FATE: Depends the required rehabilitation commitment (ie. Trees will be more approxive than grass) C Comment - Covered above under PE Too Infrastructure Enter the total area of the road footprint requiring to be covered with fertiliser (and/or li gypasm) prior to seeding UNIT FATE: Depends on the haulage distance to the point where the material is to b disposed. UNIT FATE: Depends on the haulage distance to the point where the material is to b disposed. Enter the total area of the road footprint requiring to be covered with fertiliser (and/or li gypasm) prior to seeding UNIT FATE: Depends on the naulage distance to the point where the material is to b disposed. Comment - Covered above under PE Too Infrastructure This includes sourcing, carring and spreading of a suitable volume of topsoil to cover t access roads & had roads. Covered above under PE Too Infrastructure This item includes disconnecting and terminating all services such as power, water an severe. It is a 'no off' cost Enter the total area of small buildings and tarks. Enter the total area of small buildings and tarks. Enter the total area of small buildin			
Precinct Security Deposit \$0.00	Sewerage / Water Treatment Plant Hardstand /Laydown Areas (across the entire site) Underground Infrastructure	Demolish and remove industrial buildings Remove Concrete pads, Footings and bitumen (car park) Final trim, rock rake & deep rip Source, cart and spread topsoil. Spoil amelioration and supply and spread pasture seed and fertiliser. Remove carbonaceous material from roadways (coal / rejects spillage) Reshape deep rip and ameliorate sealed / unsealed roads Source, cart and spread topsoil. Spoil amelioration and supply and spread seed and fertiliser. Disconnect and terminate services Demolish and remove small buildings / tanks Remove contaminated material from areas for disposal (ie. chemical spillage in / around storage sheds). Final trim, rock rake & deep rip Source, cart and spread topsoil. Spoil amelioration and supply and spread seed and fertiliser. Remove contaminated material from areas for disposal (ie. chemical spillage in / around storage sheds). Final trim, rock rake & deep rip Source, cart and spread topsoil. Spoil amelioration and supply and spread seed and fertiliser. Seal & rehabilitate of ventilation fans. Shaft filling Shaft capping/sealing De-watering Bores Cap exploration holes Minor earthworks and maintenance of mine subsidence areas Other 1	Precinct Securi 40352 Precinct Securi 84 0 Precinct Securi 2537 0.2537 Precinct Securi 2 2 2	m ² m ² Ha Ma Ha m ³ Ha m ³ Ha Ma Ma Ma Ma Ma Ma Ma Ma Ma M	\$89.41 \$204.37 \$12.77 \$638.66 \$1.53 \$4,726.12 \$3.32 \$6,386.65 \$1.53 \$4,726.12 \$3,193.32 \$89.41 \$2.55 \$638.66 \$1.53 \$4,726.12 \$255 \$638.66 \$1.53 \$4,726.12 \$2,55 \$638.66 \$1.53 \$4,726.12 \$2,55 \$638.66 \$1.53 \$4,726.12 \$2,55 \$638.66 \$1.53 \$4,726.12 \$2,55 \$638.66 \$1.53 \$4,726.12 \$2,55 \$638.66 \$1.53 \$4,726.12 \$2,55 \$638.66 \$1.53 \$4,726.12 \$2,55 \$638.66 \$1.53 \$4,726.12 \$2,55 \$638.66 \$1.53 \$4,726.12 \$2,55 \$638.66 \$1.53 \$4,726.12 \$2,55 \$638.66 \$1.53 \$4,726.12 \$2,55 \$638.66 \$1.53 \$4,726.12 \$2,55 \$638.66 \$1.53 \$4,726.12 \$2,55 \$638.66 \$1.53 \$4,726.12 \$2,55 \$638.66 \$1.53 \$4,726.12 \$2,55 \$638.66 \$1.53 \$4,726.12 \$2,55 \$638.66 \$1.53 \$4,726.12 \$2,55 \$638.66 \$1.53 \$4,726.12	\$6,386,65 \$252,144.78 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$134,011.25 \$0.00 \$0.00 \$134,011.25 \$0.00 \$134,011.25 \$0.00 \$1,510.70 \$0.00	awar, It is a 'one off' cost Enter the total area of small buildings and offices in the admin area. It should not inclu demonstables which can be removed from site. It does not include workshops. Enter the total area of workshops and buildings. Include the area of any bitumen car (or similar) I. Commant - Coverant abuve under Di Too Infrastructures This frem includes the area requiring minor reshaping, rock raking and deep ripping (or required) to antinoce revegatation program Commant - Coverant abuve under Di Too Infrastructure This ford area of the admin, etc footprint requiring to be covered with fertiliser (and unit for all treas of the admin, etc footprint requiring to be covered with fertiliser (and unit for all treas of the admin, etc footprint requiring to be covered with fertiliser (and unit for ATE): Depends the required rehabilitation commitment (ie. Trees will be more appressive than grass) Commant - Coverant abuve under Di Too Infrastructure Coverant - Coverant abuve under Di Too Infrastructure This includes sourcing, carting and spreading of a suitable volume of topool to cover th access roads A hun roads. IC Commant - Coverant abuve under Di Too Infrastructure This includes the area visue under Di Too Infrastructure This includes sourcing, carting and spreading of a suitable volume of topool to cover th access roads A hun roads. IC Commant - Coverant abuve under Pit Too Infrastructure This includes disconceting and terminating all services such as power, water an sever. It is a 'one off' cost Commant - Coverant abuve under Pit Too Infrastructure This includes disconceting and terminating all services such as power, water an sever. It is a 'one off' cost Commant - Coverant abuve under Pit Too Infrastructure This includes the area requiring minor reshaping, rock raking and deep ripping (or required) to nahance resegatation program (Commant - Covered above under Pit T			

Total Security Deposit for the "Domain"

\$3,266,868.99

Sub Domain 2: Tailings & Rejects Emplacements (1)

Complete a separate sheet for each tai	ilings dam/impoundment on the site.					
Detail of person filling out the Workshe	aet:			Legend:		
Name	Michelle Grierson	1	1		Item fixed no entry required	
Position	Environmental Officer				Input from site optional (if information av	ailable)
Department	Health Safety Environment and Community				Input mandatory	······································
Department	25/08/2015				,	
Date	20/00/2013					
	Tailings Dam / Impoundment (Key Information):					
	Materials Stored (ie. coal fines, coarse or co-dispose	ed)	1			
	Volume Stored (m3) Maximum Embankment Height (m)					_
	Maximum Embankment Length (m)					_
	Year Dam / Emplacement Commissioned					-
	Storage area (ha)					-
	Catchment Area of Tailings Dam / Emplacement (ha)					-
	Briefly describe embankment construction.					
	(earthen, clay /rejects core, etc)					
Management Precinct	Activity / Description	Quantity	Unit	Unit Price	Total Cost	Description / Notes:
Tailings Dams / Emplacements	Source, cart and spread suitable material to cap the tailings emplacement (cap thickness determined by MOP)		m³	\$2.55	\$0.00	This includes sourcing, carting and spreading of a suitable volume material to cap the tailings emplacement. The material must have appropriate chemical & physical properties.
	Apply engineered treatment as required (i.e. capping, capillary breaks, etc) - design in accordance with the MOP commitments.		На	\$57,479.81	\$0.00	This includes the area that requires engineering treatment is required to satisfy conditions the MOP, This may include compaction or addition of multiple layers and / or capillary breaks.
	Reshape walls / buttress around the dam / emplacement - earthworks only		Ha	\$6,386.65	\$0.00	This includes the area that requires stabilisation and reshaping works around the walls of the emplacement (i.e. removal of rills and pipes that may present long term stability issues
	Final trim, rock rake & deep rip		Ha	\$638.66	\$0.00	This item includes the area requiring minor reshaping, rock raking and deep ripping (only a required) to enhance revegetation program
	Structural works, banks waterways		Ha	\$1,788.26	\$0.00	This item includes the area requiring earthworks (banks, & drains, etc) to manage all surface water on the top of the emplacement to ensure that it is shed off the cap.
	Source, cart and spread topsoil.		m ³	\$1.53	\$0.00	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the tailings dam / emplacement.
	Spoil amelioration and supply and spread seed and fertiliser.		На	\$4,726.12	\$0.00	This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser
	Maintenance of rehabilitated areas (up to 5 years)		Ha	\$830.26	\$0.00	This item includes the total area of rehabilitation that has been established and requires subsequent fertiliser application. It assumes application twice on the first five (5) years after establishment
		Precinct Securit	y Deposit		\$0.00	
Other	Other 1 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 2 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 3 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
		Precinct Securit	y Deposit		\$0.00	
Coarse Rejects Emplacements	Source, cart and spread suitable material to cap the coarse rejects emplacement (cap thickness determined by MOP)		m ³	\$2.55	\$0.00	This includes sourcing, carting and spreading of a suitable volume material to cap the coarse rejects emplacement. The material must have appropriate chemical & physical properties.
	Apply engineered treatment as required (i.e. capping,		Ha	\$57,479.81	\$0.00	This includes the area that requires engineering treatment is required to satisfy conditions
	capillary breaks, etc) - design in accordance with the MOP commitments.					the MOP, This may include compaction or addition of multiple layers and / or capillary breaks.
	capillary breaks, etc) - design in accordance with the		На	\$638.66	\$0.00	breaks. This item includes the area requiring minor reshaping, rock raking and deep ripping (only a
	capillary breaks, etc) - design in accordance with the MOP commitments. Final trim, rock rake & deep rip Structural works, banks waterways		Ha Ha	\$1,788.26	\$0.00	breaks. This item includes the area requiring minor reshaping, rock raking and deep ripping (only a required to enhance reveatation program This item includes the area requiring earthworks (banks, & drains, etc) to manage all surface water on the too of the emplacement to ensure that it is shed off the cap.
	capillary breaks, etc) - design in accordance with the MOP commitments. Final trim, rock rake & deep rip				• • • • •	breaks. This item includes the area requiring minor reshaping, rock raking and deep ripping (only a required) to enhance reveasetation program This item includes the area requiring earthworks (banks, & drains, etc) to manage all surface water on the top of the emplacement to ensure that it is shed off the cap. This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the
	capillary breaks, etc) - design in accordance with the MOP commitments. Final trim, rock rake & deep rip Structural works, banks waterways		На	\$1,788.26	\$0.00	breaks. This item includes the area requiring minor reshaping, rock raking and deep ripping (only a required to enhance reveatation croaram This item includes the area requiring aerthworks (banks, & drains, etc) to manage all surface water on the too of the emplacement to ensure that it is shed off the cao.
	capiliary breaks, etc) - design in accordance with the MOP commitments. Final trim, rock rake & deep rip Structural works, banks waterways Source, cart and spread topsoil. Spoil amelioration and supply and spread seed and		Ha m ³	\$1,788.26 \$1.53	\$0.00 \$0.00	breaks. This item includes the area requiring minor reshaping, rock raking and deep ripping (only a required) to enhance reveatation program. This item includes the area requiring earthworks (banks, & drains, etc) to manage all surface water on the op of the emplacement to ensure that it is shed off the cap. This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the talinos dam / emplacement. This item loudes the area requiring the addition of ameliorates such as lime or gypsum
	capiling breaks, etc) - design in accordance with the MOP commitments. Final trim, rock rake & deep rip Structural works, banks waterways Source, cart and spread topsoil. Spoil amelioration and supply and spread seed and fertiliser. Maintenance of rehabilitated areas (up to 5 years)		Ha m ³ Ha	\$1,788.26 \$1.53 \$4,726.12	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	breaks. This item includes the area requiring minor reshaping, rock raking and deep ripping (only a required) to enhance reveatation program. This item includes the area requiring antiworks (banks, & drains, etc) to manage all surface varies on the too of the emploscement to ensure that it is shed off the can. This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the tailings dan' employeement. This item includes the area requiring the addition of ameliorates such as line or gypsum prior to the application of grass seed and fertiliser This item includes the total area of rehabilition that has been established and requires subsequent fertiliser application. It assumes application twice on the first five (5) years after establishment.
Other	capillary breaks, etc) - design in accordance with the MOP commitments. Final trim, rock rake & deep rip Structural works, banks waterways Source, cart and spread topsoil. Spoil amelioration and supply and spread seed and fertiliser. Maintenance of rehabilitated areas (up to 5 years) Other 1 <insert></insert>		Ha m ³ Ha	\$1,788.26 \$1.53 \$4,726.12	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	breaks. This item includes the area requiring minor reshaping, rock raking and deep ripping (only a required) to enhance reveatation program. This item includes the area requiring earthworks (banks, & drains, etc) to manage all surface water on the too of the emploacement to ensure that it is shed off the cap. This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the tailions dam. Yengleacement. This item includes the area requiring the addition of amelorates such as line or gypsum prior to the application of grass seed and reflision. This item includes the total area of rehabilitation that has been established and requires subsequent fertiliser application. It assumes application twice on the first five (5) years after stabilishment. This item includes < <to added="" be="" by="" operator="" the="">></to>
Other	capiling breaks, etc) - design in accordance with the MOP commitments. Final trim, rock rake & deep rip Structural works, banks waterways Source, cart and spread topsoil. Spoil amelioration and supply and spread seed and fertiliser. Maintenance of rehabilitated areas (up to 5 years)		Ha m ³ Ha	\$1,788.26 \$1.53 \$4,726.12	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	breaks. This item includes the area requiring minor reshaping, rock raking and deep ripping (only a required) to enhance reveaetation program. This item includes the area requiring aertworks (banks, & drains, etc) to manage all surface varter on the too of the emplosement to ensure that it is shed off the cap. This includes sourcing, carting and spreading of a suitable volume of topsoit to cover the tailings dan' employeement. This item includes the area requiring the addition of ameliorates such as line or gypsum prior to the application of grass seed and fertiliser This item includes the total area of rehabilition that has been established and requires subsequent fertiliser application. It assumes application twice on the first five (5) years after establishment

Total Security Deposit for the "Domain"

Legend:

\$0.00

Sub Domain 3: Overburden & Waste Dumps

Detail of person filling out the Worksheet:

Name	Michelle Grierson
Position	Environmental Officer
Department	Health Safety Environment and Community
Data	25/08/2015

ttem fixed no entry required Input from site optional (if information available)

out mandatory

Management Precinct	Activity / Description	Quantity	Unit	Unit Price	Total Cost	Description / Notes:
		Quantity				This item includes the total area of rehabilitation that have been established and require
Successful Rehabilitation	Maintenance of Established Revegetated Area		На	\$830.26	\$0.00	I his item includes the total area or renabilitation that have been established and require subsequent fertiliser application. It assumes application twice on the first five (5) years establishment
	Maintenance of Shaped Topsoiled and Seeded		На	\$830.26	\$0.00	This item includes the total area of that have been shaped, topsoiled and seeded and requires subsequent fertiliser application. It assumes application twice in the first five (5
		Precinct Securi	ty Denosit		\$0.00	vears after establishment
Oliverad Original Provider	Final trim, really raise 9, deep via	r reemet occur		\$638.66	+	This item includes the star requiring minor sectoring, real relian and deep ringing (ad
Shaped Overburden Dumps	Final trim, rock rake & deep rip		На	•••••	\$0.00	This item includes the area requiring minor reshaping, rock raking and deep ripping (on required) to enhance reveaetation program
	Structural works, banks, rock lined waterways		На	\$1,788.26	\$0.00	This item includes the area requiring earthworks (banks, & drains, etc) to manage all surface water on the top of the emplacement to ensure that it is shed off the reshaped a
	Source, cart and spread topsoil.		m ³	\$1.53	\$0.00	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover th reshaped dump.
	Spoil amelioration and supply and spread seed and fertiliser.		На	\$4,726.12	\$0.00	This item includes the area requiring the addition of ameliorates such as lime or gypsur prior to the application of grass seed and fertiliser
	Maintenance of rehabilitated areas (up to 5 years)		На	\$830.26	\$0.00	This item includes the total area of that have been shaped, topsoiled and seeded and requires subsequent fertiliser application. It assumes application twice in the first five (5 wars after establishment
		Precinct Securi	ty Deposit		\$0.00	
Unshaped Overburden Dumps (minor reshaping required)	Minor pushing, final trim, rock rake & deep rip		На	\$638.66	\$0.00	This item includes the area requiring minor reshaping, rock raking and deep ripping (or required) to enhance revegetation program
(minor resitability required)	Structural works, banks, rock lined waterways		На	\$1,788.26	\$0.00	This item includes the area requiring earthworks (banks, & drains, etc) to manage all surface water on the top of the emplacement to ensure that it is shed off the reshaped
	Source, cart and spread topsoil.		m ³	\$1.53	\$0.00	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover th reshaped dump.
	Spoil amelioration and supply and spread seed and fertiliser.		Ha	\$4,726.12	\$0.00	This item includes the area requiring the addition of ameliorates such as lime or gypsur prior to the application of grass seed and fertiliser
	Maintenance of rehabilitated areas (up to 5 years)		Ha	\$830.26	\$0.00	This item includes the total area of that have been shaped, topsoiled and seeded and requires subsequent fertiliser application. It assumes application twice in the first five (5 years after establishment
		Precinct Securi	ty Deposit		\$0.00	
Unshaped Overburden Dumps (major earthworks required)	Major bulk pushing to achieve grades nominated in the MOP (i.e. < 18°)		m ³	\$1.41	\$0.00	This item includes the volume requiring major reshaping, rock raking and deep ripping as required) to enhance revegetation program
	Structural works, banks, rock lined waterways		На	\$1,788.26	\$0.00	This item includes the area requiring earthworks (banks, & drains, etc) to manage all surface water on the top of the emplacement to ensure that it is shed off the cap.
	Source, cart and spread topsoil.		m³	\$1.53	\$0.00	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover th reshaped dump.
	Spoil amelioration and supply and spread seed and fertiliser.		На	\$4,726.12	\$0.00	This item includes the area requiring the addition of ameliorates such as lime or gypsur prior to the application of grass seed and fertiliser
	Maintenance of rehabilitated areas (up to 5 years)		На	\$830.26	\$0.00	This item includes the total area of that have been shaped, topsoiled and seeded and requires subsequent fertiliser application. It assumes application twice in the first five (t years after establishment
		Precinct Securi	ty Deposit		\$0.00	
Other	Other 1 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 2 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 3 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
		Precinct Securi				

		φ0.00	

Total Security Deposit for the "Domain"

\$0.00

Sub Domain 4: Surface Disturbance

Detail of person filling out the Workshe	et:			Legend:		
Name	Michelle Grierson	1	I		Item fixed no entry required	
Position	Environmental Officer	1			Input from site optional (if information a	vailable)
Department	Health Safety Environment and Community	1			Input mandatory	
Date	25/08/2015	1	1)		
		1				
Management Precinct	Activity / Description	Quantity	Unit	Unit Price	Total Cost	Description / Notes:
Initial Boxcuts & Other Voids	Drill & Blast Highwall		m³	\$0.89	\$0.00	This item includes the total area of rehabilitation that have been established and require subsequent fertiliser application. It assumes application twice on the first five (5) years after establishment UNIT RATE: dril & blast + dezer push
	Major bulk pushing of the high wall are to achieve grades nominated in the MOP (i.e < 18°)		m³	\$1.41	\$0.00	This item includes the volume requiring major reshaping, rock raking and deep ripping (only as required) to enhance revegetation program UNIT RATE: dozer push rate
	Final trim, rock rake & deep rip		На	\$638.66	\$0.00	This item includes the area requiring minor reshaping, rock raking and deep ripping (only as required) to enhance revegetation program
	Source, cart and spread topsoil (at 20cm)		m ³	\$1.53	\$0.00	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the reshaped areas
	Spoil amelioration and supply and spread pasture seed and fertiliser.		На	\$4,726.12	\$0.00	This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser
	Security Fence around steep section highwall		m	\$63.87	\$0.00	This item includes the erection of a 2m security fence (lineal metre) around the void and other dangerous areas.
	High wall treatment - (trench + safety berm)		m	\$73.45	\$0.00	This item includes the construction of a safety berm and rill (lineal metre) around the highwall to stop all vehicles, etc accidentally driving over haul road (engineered control).
		Precinct Security	Deposit	i i i i i i i i i i i i i i i i i i i	\$0.00	
Disturbance ahead of Mining + water management structures	Areas cleared on the surface - re-establish vegetation commensurate with surrounding vegetation		Ha	\$2,682.39	\$0.00	This includes the direct application of seed to restore the vegetation that was disturbed as part of clearing operations ahead of the mine.
	Areas topsoil stripped on the surface - source cart and respread topsoil		m ³	\$2.55	\$0.00	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the reshaped areas
	Reshape, deep rip, ameliorate and seed highwall / internal access roads and tracks		На	\$6,386.65	\$0.00	This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass / tree seed and fertiliser
	Reshape, deep rip, ameliorate and seed exploration lines / areas		На	\$4,726.12	\$0.00	This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass / tree seed and fertiliser
		Precinct Security	Deposit		\$0.00	
Dams & Water Holding Structures	Clean water dams to be retained after mine closure - make safe and minor earthworks.	4	@	\$2,554.66	\$10,218.63	This item includes making the dam spillway, and walls stable and ensuring the integrity of the dam wall, etc.
	Dirty Water Dams (Drain and remove sediments to make dam clean water)		m ³	\$4.09	\$0.00	This item includes draining the dam and removing 500mm of potentially contaminated (saline) sediments to be buried in the pit. UNIT RATE: must consider the distance from the dam to the disposal area.
		Precinct Security		φτ.05	\$10.218.63	
River & Creek Diversions	Creek diversion - Channel maintenance through spoil / backfill (20% of estimated diversion construction costs due to unknown landform stability)	r teamer decumy	m	\$383.20	\$0.00	This item includes the length (m) of diversion requiring ongoing maintenance (constructed through unconsolidated overburden). This will include earthworks repairs and stabilisation following flow events. It assumes a suitably qualified engineer has designed and signed off on construction of the diversion
	Creek diversion - Channel maintenance insitu (10% of estimated construction cost for diversion)		m	\$191.60	\$0.00	This item includes the length (m) of diversion requiring ongoing maintenance (constructed through natural ground). This will include earthworks repairs and stabilisation following flow events. It assumes a suitably qualified engineer has designed and signed off on construction of the diversion
	Creek diversion - Vegetation maintenance		m²	\$0.38	\$0.00	This item includes the ongoing maintenance of vegetation within the diversion channel & batters.
		Precinct Security	Deposit		\$0.00	
Other	Other 1 <insert></insert>				\$0.00	This item includes << to be added by the operator>>
	Other 2 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 3 <insert></insert>			(\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 5 sinaers				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>

Total Security Deposit for the "Domain"

\$10,218.63

tem fixed no entry required nput from site optional (if information available) nput mandatory

Sub Domain 5: Other

Detail of person filling out the Worksheet:

Name	Michelle Grierson
Position	Environmental Officer
Department	Health Safety Environment and Community
Date	25/08/2015

Management Precinct	Activity / Description	Quantity	Unit	Unit Price	Total Cost	Description / Notes:
Other (eg. site contamination, closure plan preparation, etc)	The restoration and care and maintenance of items that have historical significance and are to be retained after the cessation of mining		0	\$25,546.58	\$0.00	This item includes ensuring that sufficient resources are made available to restore items of heritage significance and also provide money to enable the ongoing care and maintenance of the structure (if not the responsibility of any another stakeholder i.e. council, historical society)
	Cap exploration holes		@	\$319.33	\$0.00	This includes capping & rehabilitation of all old Cap exploration holes around the site
	Construction / Deconstruction of Bridges and crossings		0	\$0.00	\$0.00	Value to be provided by company
	Construction of Fencing - general		@	\$63.87	\$0.00	Includes general fencing around site or site works
	Other 5 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 6 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 7 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 8 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 9 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 10 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
		Precinct Securit	y Deposit		\$0.00	

Legend:

Total Security Deposit for the "Domain"

\$0.00

Domain 5: Cordeaux Pit Top TOTAL

\$3,277,087.63

Domain 6: Corrimal No. 3 Shaft and Bins

Sub Domain 1: Infrastructure Areas

Detail of person filling out the Worksheet:

Name	Michelle Grierson
Position	Environmental Officer
Department	Health Safety Environment and Community
Date	25/08/2015

Item fixed no entry required Input from site optional (if information available) Input mandatory

Legend:

	Management Precinct	Activity / Description	Quantity	Unit	Unit Price	Total Cost	Description / Notes:
	Pit Top Infrastructure	Disconnect and terminate services	1	@	\$31,933.23	\$31,933.23	This item includes disconnecting and terminating all services such as power, water and sewer. It is a "one off" cost
		Disconnect and terminate powerlines		km	\$14,050.62	\$0.00	This item includes the cost to terminate and remove powerlines, and is based on the average
		Demolish and remove small buildings		m ²	\$89.41	\$0.00	cost to construct. Enter the total area of small buildings and offices in the CHPP area. It should not include
		Demolish and remove industrial buildings	 		\$204.37	\$0.00	demountables which can be removed from site. It does not include workshops. Enter the total area of workshop facilities in the CHPP area.
		-	0070	m²	φ20 4 .57		
		Demolish and remove Misc Plant	6272			\$0.00	Enter the total surface area of the CHPP. If the CHPP is multi-story the entry should be the sum of the surface area for all floors.
		Demolish and remove conveyors & gantries (includes overland conveyors)		m	\$70.25	\$0.00	Enter the sum of the total length of conveyor and gantries. This includes conveyor to rail load out areas of conveyor from hoppers feeding back to the CHPP.
		Remove Concrete pads and Footings	6272	m ²	\$12.77	\$80,114.09	Enter the total area the CHPP, workshops and buildings.
		Deconstruct Large Tanks (e.g. Thickener)		@	\$191,599.38	\$0.00	Enter the number of tanks to be removed from the site.
		Deconstruct Small Tanks (e.g.Thickener) Remove carbonaceous material (spillage or otherwise)		@ m ³	\$60,883.94 \$3.32	\$0.00 \$0.00	Enter the number of tanks to be removed from the site. Enter the total volume (ie. area x depth of material) to be scalped off for disposal.
		from footprint of the CHPP, ROM & Product stockpiles,			****	ţ0.00	UNIT RATE: Depends on the haulage distance to the point where the material is to be
		conveyors and workshops		<u> </u>			disposed.
		Final trim, rock rake & deep rip	0.6272	На	\$638.66	\$400.57	This item includes the areas requiring minor reshaping, rock raking and deep ripping to enhance revegetation program. This would include the entire CHPP area.
		Source, cart and spread topsoil.	1882	m ³	\$1.53	\$2,884.11	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the CHPP area
		Spoil amelioration and supply and spread seed and	0.6272	На	\$4,726.12	\$2,964.22	IC comment- Assume 0.3m depth topsoil This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to
		fertiliser.	0.0272	na	φ 4 ,720.12	\$Z,904.2Z	the application of grass seed and fertiliser
			Precinct Sec			\$118,296.22	
	Rail Line and Loop	Remove Rail Loop and spur		m	\$7.66	\$0.00	This item includes the pulling up and removal from site of railway line and sleepers. Calculated as a lineal metre
		Reshape rail spur and load out area		На	\$6,386.65	\$0.00	This item includes the areas requiring reshaping once the rail line, sleepers and ballast has been removed.
		Final trim, rock rake & deep rip		На	\$638.66	\$0.00	This item includes the area requiring minor reshaping, rock raking and deep ripping (only as
		Spoil amelioration and supply and spread pasture seed		На	\$4,726.12	\$0.00	required) to enhance revegetation program This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to
		and fertiliser.	D				the application of grass seed and fertiliser
	Main Workshop Area	Disconnect and terminate services	Precinct Sec		\$6,386.65	\$0.00 \$0.00	This item includes disconnecting and terminating all services such as power, water and sewer.
				Ŭ	\$0,000.00	ţ0.00	It is a "one off" cost
		Demolish and remove small buildings		m ²	\$89.41	\$0.00	Enter the total area of small buildings and offices in the workshop area. It should not include
		Demolish and remove industrial buildings		m ²	\$204.37	\$0.00	demountables which can be removed from site. It does not include workshops. Enter the total area of workshop facilities in the area. Include all remote or field based
		-					workshop areas.
		Remove Concrete pads, Footings and bitumen (car park) for dumping in a void on the site		m²	\$12.77	\$0.00	Enter the total area the workshops and buildings. Include the area of any bitumen car parks (or similar). It would also include vehicle washdown pads, bulk fuel bunding area and refuelling
		Remove contaminated material from workshop and		m ³	\$2.55	\$0.00	areas (i.e. all concrete areas in the workshop precinct) i) Enter the total volume (ie. area x depth of material) to be scalped off for disposal.
		hardstand areas for disposal in the decline void		1 ^m	¢1.00	÷	UNIT RATE: Depends on the haulage distance to the point where the material is to be
		AND/OR		11.	ØE7 470 01	A0.00	disposed.
		Reshaping, capping, sealing of material presenting environmental difficulties (AMD, Hydrocarbon material,		Ha	\$57,479.81	\$0.00	Enter the total area of material requiring capping or sealing. Where assessments have already been made and the presence/absence of contaminated
		etc)		L			material is know (and quantified) an alternative rate can be used. If this work has not been undertaken, a de
		Removal of UG tank (including pipes, bunds, etc)		@	\$95,799.69	\$0.00	A default rate per UGT is to be utilised.
		(include all facilities on site)	 		\$63.87	\$0.00	where an assessment of the volume of contaminated soil has been made this volume is to be
		On site remediation of contaminated soil (<1000m ³)		m ³	φ03.07	\$0.00	included. Where the volume in not known or has not been quantified a default volume of
		On site remediation of contaminated soil		m ³	\$51.09	\$0.00	3000m ³ per fuel storage facility is to be used in cell C:37 where an assessment of the volume of contaminated material has been made this volume is to
		(1000-10,000m ³)					be included. Where the volume in not know or has not been quantified a default volume of 3000m ³ per fuel storage facility is to be used.
		On site remediation of contaminated soil (>10,000m ³)		m ³	\$38.32	\$0.00	where an assessment of the volume of contaminated soil has been made this volume is to be
							included. Where the volume in <u>not known</u> or has not been quantified a default volume of 3000m ³ per fuel storage facility is to be used in cell C:37
		Final trim, rock rake & deep rip		Ha	\$638.66	\$0.00	This item includes the area requiring minor reshaping, rock raking and deep ripping (only as required) to enhance revegetation program
		Source, cart and spread topsoil.		m ³	\$1.53	\$0.00	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the
		Spoil amelioration and supply and spread seed and		На	\$4,726.12	\$0.00	workshop area. This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to
		fertiliser.					the application of grass seed and fertiliser
	Admin Duildings	Disconnect and terminate any lines	Precinct Sec	curity [@		\$0.00	This item includes disconnecting and terminating all services such as power, water and sewer.
	Admin Buildings	Disconnect and terminate services		Q	\$6,386.65	\$0.00	It is a "one off" cost
		Demolish and remove small buildings		m ²	\$89.41	\$0.00	Enter the total area of small buildings and offices in the admin area. It should not include
		Demolish and remove industrial buildings	 		\$204.37	\$0.00	demountables which can be removed from site. It does not include workshops. Enter the total area of workshop facilities in the admin area.
		· · ·		m²			
		Remove Concrete pads, Footings and bitumen (car park)		m²	\$12.77	\$0.00	Enter the total area the workshops and buildings. Include the area of any bitumen car parks (or similar)
		Final trim, rock rake & deep rip		На	\$638.66	\$0.00	This item includes the area requiring minor reshaping, rock raking and deep ripping (only as
		Source, cart and spread topsoil.		m ³	\$1.53	\$0.00	required) to enhance revegetation program This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the admin
		Spoil amelioration and supply and spread pasture seed	 	Ha	\$4,726.12	\$0.00	area. Enter the total area of the admin, etc footprint requiring to be covered with fertiliser (and/or lime
		and fertiliser.		T la	φ4,720.12	\$0.00	& gypsum) prior to seeding
							UNIT RATE: Depends the required rehabilitation commitment (ie. Trees will be more expensive than grass)
			Precinct Sec	urity I	-	\$0.00	
Acc	cess Roads & Haul Roads	Remove carbonaceous material from roadways (coal / rejects spillage)			\$3.32	\$0.00	Enter the total volume (ie. area x depth of material) to be scalped off for disposal. UNIT RATE: Depends on the haulage distance to the point where the material is to be
		rojooto opinago,					
							disposed.
		Reshape deep rip and ameliorate sealed / unsealed		<u> </u>		\$0.00	IC comment 18/09/14 - Assume 0.2m denth of material Enter the total area of the road footprint requiring to be covered with fertiliser (and/or lime &
		Reshape deep rip and ameliorate sealed / unsealed roads		\vdash		\$0.00	IC comment 18/00/14 _ Assume 0 2m denth of material Enter the total area of the road footprint requiring to be covered with fertiliser (and/or lime & gypsum) prior to seeding
		roads	0	-3	\$1.53		IC comment 18/09/14 - Assume 0.2m. denth of material Enter the total area of the road footprint requiring to be covered with fertiliser (and/or lime & gypsum) prior to seeding UNIT RATE: Depends the required rehabilitation commitment (ie. Trees will be more expensive than crass)
			0	m ³	\$1.53	\$0.00 \$0.00	IC comment 18/09/14 - Assume 0.2 m denth of material Enter the total area of the road footprint requiring to be covered with fertiliser (and/or lime & gypsum) prior to seeding UNIT RATE: Depends the required rehabilitation commitment (ie. Trees will be more expensive than crass) This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the access roads & haul roads.
		roads	0	m ³ Ha	\$1.53 \$4,726.12		IC comment 18/09/14 - Assume 0.2 m. denth of material Enter the total area of the road footprint requiring to be covered with fertiliser (and/or lime & gypsum) prior to seeding UNIT RATE: Depends the required rehabilitation commitment (ie. Trees will be more expensive than crass) This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the access
		roads Source, cart and spread topsoil.	0	На	\$4,726.12	\$0.00	IC comment 14/09/14 - Assume 0.2m. denth of material Enter the total area of the road footprint requiring to be covered with fertiliser (and/or lime & gypsum) prior to seeding UNIT RATE: Depends the required rehabilitation commitment (ie. Trees will be more expensive than crass). This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the access roads & haul roads. IC comment 14/09/14 - Assume 0.3m death topsoil
Source	rano / Water Treatment Diare	roads Source, cart and spread topsoil. Spoil amelioration and supply and spread seed and fertiliser.		Ha curity [\$4,726.12 Deposit	\$0.00 \$0.00 \$0.00	IC comment 18/09/14 - Assume 0.2 m. denth of material Enter the total area of the road footprint requiring to be covered with fertiliser (and/or lime & gypsum) prior to seeding UNIT RATE: Depends the required rehabilitation commitment (ie. Trees will be more expensive than crass). This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the access roads & haul roads. IC comment 14/09/14 - Assume 0.3 m denth tonsoil This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser
Sewer	rage / Water Treatment Plant	roads Source, cart and spread topsoil. Spoil amelioration and supply and spread seed and	0	На	\$4,726.12	\$0.00	IC comment 14/09/14 - Assume 0.2 m. denth of material Enter the total area of the road footprint requiring to be covered with fertiliser (and/or lime & gypsum) prior to seeding UNIT RATE: Depends the required rehabilitation commitment (ie. Trees will be more expensive than onsat) This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the access roads & haul roads. IC comment 14/09/14 - Assume 0.3m depth topsoil This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to
Sewer	rage / Water Treatment Plant	roads Source, cart and spread topsoil. Spoil amelioration and supply and spread seed and fertiliser.	0	Ha curity [\$4,726.12 Deposit	\$0.00 \$0.00 \$0.00	IC comment 14/09/14 - Assume 0.2m. Aenth of material Enter the total area of the road footprint requiring to be covered with fertiliser (and/or lime & gypsum) prior to seeding UNIT RATE: Depends the required rehabilitation commitment (ie. Trees will be more expensive than crass). This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the access roads & haul roads. IC comment 14/09/14 - Assume 0.3m death topsoil This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser This item includes disconnecting and terminating all services such as power, water and sewer.
Sewer	rage / Water Treatment Plant	roads Source, cart and spread topsoil. Spoil amelioration and supply and spread seed and fertiliser. Disconnect and terminate services Demolish and remove small buildings / tanks Remove contaminated material from areas for disposal	0	Ha curity [\$4,726.12 Deposit	\$0.00 \$0.00 \$0.00 \$0.00	IC comment 18/09/14 - Assume 0.2 m. denth of material Enter the total area of the road footprint requiring to be covered with fertiliser (and/or lime & gypsum) prior to seeding UNIT RATE: Depends the required rehabilitation commitment (ie. Trees will be more expensiv than crass) This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the access roads & haul roads. IC comment 14/09/14 - Assume 0.3 m denth tonsoil This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser This item includes disconnecting and terminating all services such as power, water and sewer. It is a "one off" cost Enter the total area of small buildings and tanks. Enter the total volume (ie. area x depth of material) to be scalped off for disposal.
Sewer	rage / Water Treatment Plant	roads Source, cart and spread topsoil. Spoil amelioration and supply and spread seed and fertiliser. Disconnect and terminate services Demolish and remove small buildings / tanks	0	Ha urity [@	\$4,726.12 Deposit \$3,193.32	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	IC comment 14/09/14 - Assume 0.2m. Aenth of material Enter the total area of the road footprint requiring to be covered with fertiliser (and/or lime & gypsum) prior to seeding UNIT RATE: Depends the required rehabilitation commitment (ie. Trees will be more expensive than crass). This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the access roads & haul roads. IC comment 14/09/14 - Assume 0.3m death topsoil This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser This item includes disconnecting and terminating all services such as power, water and sewer. It is a 'one off' cost Enter the total area of small buildings and tanks.
Sewer	rage / Water Treatment Plant	roads Source, cart and spread topsoil. Spoil amelioration and supply and spread seed and fertiliser. Disconnect and terminate services Demolish and remove small buildings / tanks Remove contaminated material from areas for disposal	0	Ha urity [@	\$4,726.12 Deposit \$3,193.32	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	IC comment 18/09/14 - Assume 0.2m denth of material Enter the total area of the road tootprint requiring to be covered with fertiliser (and/or lime & gypsum) prior to seeding UNIT RATE: Depends the required rehabilitation commitment (ie. Trees will be more expensive than crass). This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the access roads & haul roads. IC comment 14/09/14 - Assume 0.3m death toosoil This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser This item includes disconnecting and terminating all services such as power, water and sever. It is a "one off" cost Enter the total area of small buildings and tanks. Enter the total area of small buildings and tanks. Enter the total volume (ie. area x depth of material) to be scalped off for disposal. UNIT RATE: Depends on the haulage distance to the point where the material is to be disposed. This tem includes the area requiring minor reshaping, rock raking and deep ripping (only as
Sewer	rage / Water Treatment Plant	roads Source, cart and spread topsoil. Spoil amelioration and supply and spread seed and fertiliser. Disconnect and terminate services Demolish and remove small buildings / tanks Remove contaminated material from areas for disposal (ie. chemical spillage in / around storage sheds). Final trim, rock rake & deep rip	0 Precinct Sec	Ha eurity [@ m ³ Ha	\$4,726.12 Deposit \$3,193.32 \$2.55 \$638.66	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	IC comment 18/09/14 - Assume 0.2m. denth of material Enter the total area of the road footprint requiring to be covered with fertiliser (and/or lime & gypsum) prior to seeding UNIT RATE: Depends the required rehabilitation commitment (ie. Trees will be more expensive than crass) This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the access roads & haul roads. IC comment 14/09/14 - Assume 0.3m death topsoil This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser This item includes disconnecting and terminating all services such as power, water and sewer. It is a "one off" cost Enter the total area of small buildings and tanks. Enter the total volume (ie. area x depth of material) to be scalped off for disposal. UNIT RATE: Depends on the haulage distance to the point where the material is to be disposed. This item includes the area requiring minor reshaping, rock raking and deep ripping (only as required) to enhance revegetation program
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Hardsta	and /Laydown Areas (across the entire site)	roads Source, cart and spread topsoil. Spoil amelioration and supply and spread seed and fertiliser. Demolish and remove small buildings / tanks Remove contaminated material from areas for disposal (ie. chemical spillage in / around storage sheds). Final trim, rock rake & deep rip Source, cart and spread topsoil. Spoil amelioration and supply and spread seed and fertiliser. Remove contaminated material from areas for disposal (ie. chemical/hydrocarbon spillage in the hard stand area). Deep rip hard stand / laydown areas Source, cart and spread topsoil. Spoil amelioration and supply and spread seed and fertiliser. Seal Portal / Decline Entry Seal & rehabilitate of ventilation fans. Shaft filling Shaft capping/sealing De-watering Bores Cap exploration holes Minor earthworks and maintenance of mine subsidence areas Other 1 <insert> Other 1 <insert> Other 2 <insert></insert></insert></insert>	0 Precinct Sec 0 0 0 0 Precinct Sec 1 1 3000	Ha @ m ³ Ha Ha Ha Ha Ma Ha Ha Ha Ha Ha Ha	\$4,726.12 Deposit \$3,193.32 \$2.55 \$638.66 \$1.53 \$4,726.12 Deposit \$2.55 \$638.66 \$1.53 \$4,726.12 Deposit \$28,101.24 \$31,933.23 \$24.35 \$12,176.79 \$3,831.99 \$31,933 \$1,277.33	\$0.00 \$0.00	IC_comment 18/09/14 - Assume 0.2m death of material Enter the total area of the road footprint requiring to be covered with fertiliser (and/or lime & gypsum) prior to seeding UNIT RATE: Depends the required rehabilitation commitment (ie. Trees will be more expensive than crass). This includes succing, carting and spreading of a suitable volume of topsoil to cover the access roads & hall roads. IC comment 14/09/14 - Assume 0.3m death toosoil This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser This item includes the area and epth of material) to be scalped off for disposal. UNIT RATE: Depends on the haulage distance to the point where the material is to be disposed. This item includes the area requiring minor reshaping, rock raking and deep ripping (only as required) to enhance reveaetation program. This includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser Enter the total volume (ie. area x depth of material) to be scalped off for disposal. UNIT RATE: Depends on the haulage distance to the point where the material is to be disposed. This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser Enter the total volume (ie. area x depth of material) to be scalped off for disposal. UNIT RATE: Depends on the haulage distance to the point where the material is to be disposed. This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the hard stands and lay down areas. This includes sealing the portal to make safe and ensure access can not be obtained. The number
Hardsta	and /Laydown Areas (across the entire site)	roads Source, cart and spread topsoil. Spoil amelioration and supply and spread seed and fertiliser. Demolish and remove small buildings / tanks Remove contaminated material from areas for disposal (ie. chemical spillage in / around storage sheds). Final trim, rock rake & deep rip Source, cart and spread topsoil. Spoil amelioration and supply and spread seed and fertiliser. Remove contaminated material from areas for disposal (ie. chemical/hydrocarbon spillage in the hard stand area). Deep rip hard stand / laydown areas Source, cart and spread topsoil. Spoil amelioration and supply and spread seed and fertiliser. Seal Portal / Decline Entry Seal & rehabilitate of ventilation fans. Shaft filling Shaft capping/sealing De-watering Bores Cap exploration holes Minor earthworks and maintenance of mine subsidence areas Other 1 <insert></insert>	0 Precinct Sec 0 0 0 0 Precinct Sec 1 1 3000	Ha m ³ Ha m ³ Ha Ha m ³ Ha m ³ Ha m ³ Ha m ³ Ha m ³ Ha m ³ Ha	\$4,726.12 Deposit \$2,55 \$638.66 \$1.53 \$4,726.12 Deposit \$2,55 \$638.66 \$1.53 \$4,726.12 Deposit \$28,101.24 \$31,933.23 \$24.35 \$12,176.79 \$3,831.99 \$319.33 \$1,277.33 Deposit	\$0.00 \$0.00	IC-comment 18/09/14 - Assume 0.2m death of material Enter the total area of the road footprint requiring to be covered with fertiliser (and/or lime & gypsum) prior to seeding UNIT RATE: Depends the required rehabilitation commitment (ie. Trees will be more expensive than crass). This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the access roads & haul roads. IC-comment 14/09/14 - Assume 0.3m death toosoil This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser This item includes the area requiring the addition of ameliorates such as power, water and sever. It is a "one off" cost Enter the total area of small buildings and tanks. Enter the total area of small buildings and tanks. Enter the total area of small buildings and tanks. Enter the total olume (ie. area x depth of material) to be scalped off for disposal. UNIT RATE: Depends on the haulage distance to the point where the material is to be disposed. This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the severage / water treatment plant. IC-comment 140/09/14 - Assume 0.3m death toosoil This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser Enter the total volume (ie. area x depth of material) to be scalped off for disposal. UNIT RATE: Depends on the haulage distance to the point where the material is to be disposed. UNIT RATE: Depends on the haulage distance to the point where the material is to be disposed. This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the hard stands and lav down areas This includes seeling the portal to make safe and ensure access can not be obtained. The number of portals for the whole mine is to be included.

Total Security Deposit for the "Domain"

\$251,391.42

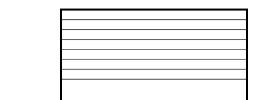
Complete a separate sheet for each tailings dam/impoundment on the site. Detail of person filling out the Worksheet:

Michelle Grierson Name Position nvironmental Officer Health Safety Environment and Community Department 25/08/2015 Date

m fixed no entry required Input from site optional (if information available) nput mandatory

Tailings Dam / Impoundment (Key Information):

Materials Stored (ie. coal fines, coarse or co-disposed) Volume Stored (m3) Maximum Embankment Height (m) Maximum Embankment Length (m) Year Dam / Emplacement Commissioned Storage area (ha) Catchment Area of Tailings Dam / Emplacement (ha) Briefly describe embankment construction. (earthen, clay /rejects core, etc)



Legend:

Management Precinct	Activity / Description	Quantity L	Unit	Unit Price	Total Cost	Description / Notes:
Tailings Dams / Emplacements	Source, cart and spread suitable material to cap the tailings emplacement (cap thickness determined by MOP)		m³	\$2.55	\$0.00	This includes sourcing, carting and spreading of a suitable volume material to cap the tailings emplacement. The material must have appropriate chemical & physical properties.
	Apply engineered treatment as required (i.e. capping, capillary breaks, etc) - design in accordance with the MOP commitments.		Ha	\$57,479.81	\$0.00	This includes the area that requires engineering treatment is required to satisfy conditions of the MOP, This may include compaction or addition of multiple layers and / or capillary breaks.
	Reshape walls / buttress around the dam / emplacement - <i>earthworks only</i>		Ha	\$6,386.65	\$0.00	This includes the area that requires stabilisation and reshaping works around the walls of the emplacement (i.e. removal of rills and pipes that may present long term stability issues)
	Final trim, rock rake & deep rip		Ha	\$638.66	\$0.00	This item includes the area requiring minor reshaping, rock raking and deep ripping (only as required) to enhance revegetation program
	Structural works, banks waterways		Ha	\$1,788.26	\$0.00	This item includes the area requiring earthworks (banks, & drains, etc) to manage all surface water on the top of the emplacement to ensure that it is shed off the cap.
	Source, cart and spread topsoil.		m³	\$1.53	\$0.00	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the tailings dam / emplacement.
	Spoil amelioration and supply and spread seed and fertiliser.		Ha	\$4,726.12	\$0.00	This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser
	Maintenance of rehabilitated areas (up to 5 years)		Ha	\$830.26	\$0.00	This item includes the total area of rehabilitation that has been established and requires subsequent fertiliser application. It assumes application twice on the first five (5) years after establishment
		Precinct Secur	rity D	eposit	\$0.00	
Other	Other 1 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 2 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 3 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
		Precinct Security Deposit		eposit	\$0.00	
Coarse Rejects Emplacements	Source, cart and spread suitable material to cap the coarse rejects emplacement (cap thickness determined by MOP)		m³	\$2.55	\$0.00	This includes sourcing, carting and spreading of a suitable volume material to cap the coarse rejects emplacement. The material must have appropriate chemical & physical properties.
	Apply engineered treatment as required (i.e. capping, capillary breaks, etc) - design in accordance with the MOP commitments.		Ha	\$57,479.81	\$0.00	This includes the area that requires engineering treatment is required to satisfy conditions of the MOP, This may include compaction or addition of multiple layers and / or capillary breaks.
	Final trim, rock rake & deep rip		Ha	\$638.66	\$0.00	This item includes the area requiring minor reshaping, rock raking and deep ripping (only as required) to enhance revegetation program
	Structural works, banks waterways		Ha	\$1,788.26	\$0.00	This item includes the area requiring earthworks (banks, & drains, etc) to manage all surface water on the top of the emplacement to ensure that it is shed off the cap.
	Source, cart and spread topsoil.		m ³	\$1.53	\$0.00	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the tailings dam / emplacement.
	Spoil amelioration and supply and spread seed and fertiliser.		Ha	\$4,726.12	\$0.00	This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser
	Maintenance of rehabilitated areas (up to 5 years)		Ha	\$830.26	\$0.00	This item includes the total area of rehabilitation that has been established and requires subsequent fertiliser application. It assumes application twice on the first five (5) years after establishment
					\$0.00	
Other	Other 1 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 2 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 3 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
		Precinct Secur	rity D	eposit	\$0.00	

Total Security Deposit for the "Domain"

Sub Domain 3: Overburden & Waste Dumps

Detail of person filling out the Worksheet:

	Michelle Grierson
Position	Environmental Officer
Department	Health Safety Environment and Community
Date	25/08/2015

Legend: n fixed no entry required nput from site optional (if information available) put mandatory

\$0.00

Management Precinct	Activity / Description	Quantity	Unit	Unit Price	Total Cost	Description / Notes:
Successful Rehabilitation	Maintenance of Established Revegetated Area		Ha	\$830.26	\$0.00	This item includes the total area of rehabilitation that have been established and require
					-	subsequent fertiliser application. It assumes application twice on the first five (5) years after
	Melatara (Obara d Tara dia dan do a da d		11-	¢000.00	* 2.22	establishment
	Maintenance of Shaped Topsoiled and Seeded		Ha	\$830.26	\$0.00	This item includes the total area of that have been shaped, topsoiled and seeded and requires subsequent fertiliser application. It assumes application twice in the first five (5) years after
						establishment
		Precinct Secu	urity [Deposit	\$0.00	establishment
Shaped Overburden Dumps	Final trim, rock rake & deep rip		На	\$638.66	\$0.00	This item includes the area requiring minor reshaping, rock raking and deep ripping (only as
						required) to enhance revegetation program
	Structural works, banks, rock lined waterways		Ha	\$1,788.26	\$0.00	This item includes the area requiring earthworks (banks, & drains, etc) to manage all surface
						water on the top of the emplacement to ensure that it is shed off the reshaped area.
	Source, cart and spread topsoil.		m ³	\$1.53	\$0.00	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the
				•	÷0.00	reshaped dump.
	Spoil amelioration and supply and spread seed and		Ha	\$4,726.12	\$0.00	This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to
	fertiliser.					the application of grass seed and fertiliser
	Maintenance of rehabilitated areas (up to 5 years)		Ha	\$830.26	\$0.00	This item includes the total area of that have been shaped, topsoiled and seeded and requires
						subsequent fertiliser application. It assumes application twice in the first five (5) years after
		Desident Con			** **	establishment
		Precinct Secu			\$0.00	
Unshaped Overburden Dumps	Minor pushing, final trim, rock rake & deep rip		Ha	\$638.66	\$0.00	This item includes the area requiring minor reshaping, rock raking and deep ripping (only as
(minor reshaping required)	Structural works, banks, rock lined waterways		На	\$1,788.26	\$0.00	required) to enhance revegetation program This item includes the area requiring earthworks (banks, & drains, etc) to manage all surface
	Structural works, banks, rock lined waterways		1 Ia	ψ1,700.20	\$0.00	water on the top of the emplacement to ensure that it is shed off the reshaped area.
	Source, cart and spread topsoil.		m ³	\$1.53	\$0.00	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the
	Oneil exclination and events and exceed and		1.1-	£4 700 40	AA AA	reshaped dump.
	Spoil amelioration and supply and spread seed and		Ha	\$4,726.12	\$0.00	This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser
	fertiliser.					
	Maintenance of rehabilitated areas (up to 5 years)		Ha	\$830.26	\$0.00	This item includes the total area of that have been shaped, topsoiled and seeded and requires
						subsequent fertiliser application. It assumes application twice in the first five (5) years after establishment
		Precinct Secu	urity [Deposit	\$0.00	FARMAULTU
Unshaped Overburden Dumps	Major bulk pushing to achieve grades nominated in the		m ³	\$1.41	\$0.00	This item includes the volume requiring major reshaping, rock raking and deep ripping (only as
(major earthworks required)	MOP (i.e. < 18°)				••••	required) to enhance revegetation program
(Structural works, banks, rock lined waterways		На	\$1,788.26	\$0.00	This item includes the area requiring earthworks (banks, & drains, etc) to manage all surface
				• .,. • • • • •		water on the top of the emplacement to ensure that it is shed off the cap.
	Source, cart and spread topsoil.		m ³	\$1.53	\$0.00	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the
						reshaped dump.
	Spoil amelioration and supply and spread seed and		Ha	\$4,726.12	\$0.00	This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to
	fertiliser.					the application of grass seed and fertiliser
	Maintenance of rehabilitated areas (up to 5 years)		Ha	\$830.26	\$0.00	This item includes the total area of that have been shaped, topsoiled and seeded and requires
						subsequent fertiliser application. It assumes application twice in the first five (5) years after establishment
		Precinct Secu	urity I	Deposit	\$0.00	
Other	Other 1 <insert></insert>	comot dect		- op oon		This item includes < <to added="" be="" by="" operator="" the="">></to>
Other	Other 1 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">> This item includes <<to added="" be="" by="" operator="" the="">></to></to>
					\$0.00	
	Other 3 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
		Precinct Secu	urity L	Deposit	\$0.00	

Total Security Deposit for the "Domain"

\$0.00

Sub Domain 4: Surface Disturbance

Detail of person filling out the Worksheet: Legend:							
Name	Michelle Grierson	1			Item fixed no entry required		
Position	Environmental Officer				Input from site optional (if information available)		
Department	Health Safety Environment and Community	input mandatory					
Date	25/08/2015				input mandatory		
		4					
Management Precinct	Activity / Description	Quantity	Unit	Unit Price	Total Cost	Description / Notes:	
Initial Boxcuts & Other Voids	Drill & Blast Highwall		m ³	\$0.89	\$0.00	This item includes the total area of rehabilitation that have been established and require subsequent fertiliser application. It assumes application twice on the first five (5) years after establishmet UNIT RATE: drill & blast + dozer push	
	Major bulk pushing of the high wall are to achieve					This item includes the volume requiring major reshaping, rock raking and deep ripping (only as	
	grades nominated in the MOP (i.e < 18°)		m ³	\$1.41	\$0.00	required) to enhance revegetation program UNIT RATE: dozer push rate	
	Final trim, rock rake & deep rip		На	\$638.66	\$0.00	This item includes the area requiring minor reshaping, rock raking and deep ripping (only as required) to enhance revegetation program	
	Source, cart and spread topsoil (at 20cm)		m ³	\$1.53	\$0.00	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the	
	Spoil amelioration and supply and spread pasture seed			φ1.00	\$0.00	reshaped areas This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to	
	and fertiliser.		На	\$4,726.12	\$0.00	the application of grass seed and fertiliser	
	Security Fence around steep section highwall					This item includes the erection of a 2m security fence (lineal metre) around the void and other	
			m	\$63.87	\$0.00	dangerous areas.	
	High wall treatment - (trench + safety berm)		m	\$73.45	\$0.00	This item includes the construction of a safety berm and rill (lineal metre) around the highwall to stop all vehicles, etc accidentally driving over haul road (engineered control).	
		Precinct Sec	urity I	Deposit	\$0.00		
Disturbance ahead of Mining + water	Areas cleared on the surface - re-establish vegetation					This includes the direct application of seed to restore the vegetation that was disturbed as part	
management structures	commensurate with surrounding vegetation		На	\$2,682.39	\$0.00	of clearing operations ahead of the mine.	
	Areas topsoil stripped on the surface - source cart and					This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the	
	respread topsoil		m ³	\$2.55	\$0.00	reshaped areas	
	Reshape, deep rip, ameliorate and seed highwall /					This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to	
	internal access roads and tracks		Ha	\$6,386.65	\$0.00	the application of grass / tree seed and fertiliser	
	Reshape, deep rip, ameliorate and seed exploration lines / areas		На	\$4,726.12	\$0.00	This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass / tree seed and fertiliser	
		Precinct Sec	urity I		\$0.00		
Dams & Water Holding Structures	Clean water dams to be retained after mine closure -			sopoon	\$0.00	This item includes making the dam spillway, and walls stable and ensuring the integrity of the	
	make safe and minor earthworks.			\$2,554.66	\$0.00	dam wall, etc.	
	Dirty Water Dams (Drain and remove sediments to make dam clean water)					This item includes draining the dam and removing 500mm of potentially contaminated (saline) sediments to be buried in the pit. UNIT RATE: must consider the distance from the dam to the	
			m ³	\$4.09	\$0.00	disposal area.	
		Precinct Sec			\$0.00		
River & Creek Diversions	Creek diversion - Channel maintenance through spoil / backfill (20% of estimated diversion construction costs due to unknown landform stability)		m	\$383.20	\$0.00	This item includes the length (m) of diversion requiring ongoing maintenance (constructed through unconsolidated overburden). This will include earthworks repairs and stabilisation following flow events. It assumes a suitably qualified engineer has designed and signed off on construction of the diversion	
	Creek diversion - Channel maintenance insitu (10% of estimated construction cost for diversion)		m	\$191.60	\$0.00	This item includes the length (m) of diversion requiring ongoing maintenance (constructed through natural ground). This will include earthworks repairs and stabilisation following flow events. It assumes a suitably qualified engineer has designed and signed off on construction of the diversion	
1	Oracle diversion Vegetation maintenance		m ²	\$0.38	\$0.00	This item includes the ongoing maintenance of vegetation within the diversion channel & batters.	
	Creek diversion - Vegetation maintenance						
		Precinct Sec					
Other		Precinct Sec			\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>	
Other	Other 1 <insert></insert>	Precinct Sec				This item includes < <to added="" be="" by="" operator="" the="">> This item includes <<to added="" be="" by="" operator="" the="">></to></to>	
Other		Precinct Sec			\$0.00 \$0.00	This item includes < <to added="" be="" by="" operator="" the="">> This item includes <<to added="" be="" by="" operator="" the="">> This item includes <<to added="" be="" by="" operator="" the="">> This item includes <<to added="" be="" by="" operator="" the="">></to></to></to></to>	

Total Security Deposit for the "Domain"

\$0.00

Sub Domain 5: Other

 Detail of person filling out the Workshert:
 Legend:

 Name
 Michelle Grierson
 Item fixed no entry required

 Position
 Environmental Officer
 Input from site optional (if information available)

 Department
 Health Safety Environment and Community
 Input mandatory

Management Precinct	Activity / Description	Quantity	Unit	Unit Price	Total Cost	Description / Notes:
Other (eg. site contamination, closure	The restoration and care and maintenance of items that		@	\$25,546.58	\$0.00	This item includes ensuring that sufficient resources are made available to restore items of
plan preparation, etc)	have historical significance and are to be retained after					heritage significance and also provide money to enable the ongoing care and maintenance of
	the cessation of mining					the structure (if not the responsibility of any another stakeholder i.e. council, historical society)
	Cap exploration holes		@	\$319.33	\$0.00	This includes capping & rehabilitation of all old Cap exploration holes around the site
	Construction / Deconstruction of Bridges and crossings		@	\$0.00	\$0.00	Value to be provided by company
	Construction of Fencing - general		@	\$63.87	\$0.00	Includes general fencing around site or site works
	Other 5 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 6 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 7 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 8 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 9 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 10 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
		Precinct Security Deposit		Deposit	\$0.00	

Total Security Deposit for the "Domain"

\$0.00

Domain 6: Corrimal No. 3 Shaft and Bins TOTAL

\$251,391.42

Third Party Project Management & Contingencies

Detail of person filling out the	e Worksheet:			Legend:		
Name Position Department Date	Michelle Grierson Environmental Officer Health Safety Environment and Community 25/08/2015				Item fixed no entry required Input from site optional (if information available) Input mandatory	
Item	Activity / Description	Quantity			Total Cost	Description / Notes:
		-	S	ub-Total (Domains)		
Third Party Project Management	Mobilisation & Demobilisation (third party contractor rates apply).	1	@	\$50,000.00	\$50,000.00	Cost would have to be determined (justified) on the basis of the equipment required and the distance of the mine from the likely contractor to be used.
	DRE Tender Preparation and Assessment	1	@	\$6,386.65	\$6,386.65	Values provided in this cell are provided as a minimum, and should be assessed based on the size of the site, and works required.
	Development of Unplanned Closure Plan	1	@	\$31,933.23	\$31,933.23	Values provided in this cell are provided as a minimum, and should be assessed based on the size of the site, and works required.
	Post closure environmental monitoring	5%	%	\$429,820.78	\$429,820.78	% of the subtotal for all domains
	Project Management & Surveying	10%	%	\$859,641.56	\$859,641.56	% of the subtotal for all domains
	Indexation		@		\$0.00	
	Other <insert></insert>		@		\$0.00	
	Other <insert></insert>		@		\$0.00	
		S	ub-T	otal (Sundry Items)	\$1,377,782.22	
	Sub-Total	(Domain	n and	d Sundry Items)	\$9,974,197.85	
Contingency	Contingency	10%	%	\$9,974,197.85	\$997,419.79	
		Precinc	t Sec	curity Deposit	\$10,971,617.64	exclusive of GST
				y		

Sub-Total Rehabilitation Estimate for "Domains"	\$8,596,415.63
Total Rehabilitation Estimate for "Sundry Items"	\$1,377,782.22
Contingency (based on Sundry and Domains)	\$997,419.79
Total Rehabilitation Estimate	\$10,971,617.64 exclusive of GST

Department of Primary Industries Mineral Resources - Environment Branch Rehabilitation Cost Calculation Spreadsheet Certified Correct:_____(initial) CCL768 Rehabilitation-Cost-Calculation-Tool_August 2015_With MobDemobCost (2)_2 Management & Contingencies



Justification for Change of Rates in Resources & Energy Rehabilitation Cost Calculation Tool

Domain	Activity	DRE unit/rate	Adopted Rates	Justification

In completing the R&E Rehabilitation Cost Calculation, we are seeking an adjustment to the rates currently utilised in the R&E Rehabilitation Cost Calculation Tool. A justification for the rate change by a third party has been included and I confirm that only the rates identified in the above table have been altered in the Rehabilitation Cost Calculation Tool.

General Manager	Signature	Date
DRE Reporting Officer	Signature	Date

APPENDIX B2 ML1510, ML1566 Rehabilitation Cost Calculation



Site Registration

Complete the follow	ving fields prior to calculating the security bond.						
Mine Name:	Dendrobium Colliery						
Lease(s)	ML 1510, ML 1566						
Mine Owner	Dendrobium Coal Pty Ltd						
Mine Operator	Dendrobium Coal Pty Ltd						
Expiry of MOP	30/8/2015						
Current Security	\$2,705,116 Date of last Security Bond review Dec-14						
Mine Contact	Peter McMillan						
Position	Environment and Community Supervisor						
Address	South32 Illawarra Coal Regional Operations Centre Level 3 Enterprise 1 Innovation Campus Squires Way North Wollongong NSW 2500						
	Postal Address: PO Box 514 Unanderra, NSW, 2526						
Phone	(02) 4286 3200 e-mail Peter.McMillan@south32.net						

Site Description

The following site specific information is requested to provide background information in the context of calculating the security bond.

Summary of Mine Activities		Environmental Sensitivities
Total annual production (tonnes)	N/A	Surrounding land use (tick all that apply):
Mine lease area (ha):	49.29	Cropping
	N1/A	Pasture
Area of extraction (ha):	N/A	Forest
Area of disturbance (ha):	9.1	Undisturbed habitat
Rehabilitation in progress (ha):	0	Urban
Rehabilitation complete (ha):	0	Environmental Issues affecting site (tick all that apply)
Estimate based on Plan(s):	MOP	Threatened flora
include version and date		Threatened fauna
		Cultural heritage items
Plan(s) outlining Domain Areas	see MOP	Natural heritage features
include version and date	Plan(s) attached	Mine subsidence
		Surface water pollution
		Ground water pollution
NOTE:		V Hydrocarbon contamination
Ensure rehabilitation cost ca environmental issues affecting the		Methane drainage/venting
should be allocated wh	ere costs have	Spontaneous combustion
not been incorportated elsewh	here in the estimation.	Acid Mine Drainage
		Vithin drinking water catchment
		Other (describe below)



Summary Rehabilitation Cost Calculation

Note: Sections of this page are automatically filled in from the registration page

Mine Name:	Dendrobium Colliery
Lease(s):	ML 1510, ML 1566
Mine Owner:	Dendrobium Coal Pty Ltd
Mine Operator:	Dendrobium Coal Pty Ltd
Expiry of MOP:	30/8/2015
Current Security:	\$ 2,705,116.00 Date of Last Security Bond Review: Dec-14
Mine Contact:	Peter McMillan
Position:	Environment and Community Supervisor
Address:	South32 Illawarra Coal Regional Operations Centre Level 3 Enterprise 1 Innovation Campus Squires Way North Wollongong NSW 2500 Postal Address: PO Box 514 Unanderra, NSW, 2526
Phone:	(02) 4286 3200 email: Peter.McMillan@south32.net

Domain	Security Deposit
Domain 1: Kemira Valley Coal Loading Facility West	\$1,283,341.15
Domain 2: Vent Shafts 2/3	\$279,604.00
Sub-Total (Domains and Sundry Items)	\$1,562,945.14
Contingency	\$188,570.68
Third Party Project Management	\$322,761.65
Total Security Deposit for the Mining Project (excl. of GST)	\$2,074,277.47

Note: GST is not included in the above calculation or as part of rehabilitation security deposits required by the Department

Alterations have been made to unit prices within this spreadsheet. (Attach a separate sheet providing details of changes)

The proposed rehabilitation design is generally consistent with the development consent for the project

This Registration Form, Summary Report and calculation pages are to be printed and attached as an appendix the AEMR.

This mine security calculation has been estimated using the best available information at the time. It is a true and accurate reflection of the total rehabilitation liability held by this mine.

Signature General Manager	Print Name	Date:
 Signature	Print Name	

Domain 1: Kemira Valley Coal Loading Facility West

Sub Domain 1: Infrastructure Areas

Detail of person filling out the Worksheet:



Management Precinct	Activity / Description	Quantity	Unit	Unit Price	Total Cost	Description / Notes:
Pit Top Infrastructure	Disconnect and terminate services	1	@	\$31,933.23	\$31,933.23	This item includes disconnecting and terminating all services such as power, water and sewer.
	Disconnect and terminate powerlines	0.5	km	\$14,050.62	\$7,025.31	It is a "one off" cost This item includes the cost to terminate and remove powerlines, and is based on the average
					*- ;-=	cost to construct.
	Demolish and remove small buildings		m²	\$89.41	\$0.00	Enter the total area of small buildings and offices in the CHPP area. It should not include demountables which can be removed from site. It does not include workshops.
	Demolish and remove industrial buildings		m²	\$204.37	\$0.00	Enter the total area of workshop facilities in the CHPP area.
	Demolish and remove Misc Plant	2518	m²	\$204.37	\$514,610.39	Enter the total surface area of the CHPP. If the CHPP is multi-story the entry should be the sum of the surface area for all floors.
	Demolish and remove conveyors & gantries (includes overland conveyors)		m	\$70.25	\$0.00	Enter the sum of the total length of conveyor and gantries. This includes conveyor to rail load out areas of conveyor from hoppers feeding back to the CHPP.
	Remove Concrete pads and Footings	41505	m ²	\$12.77	\$530,155.48	Enter the total area the Pit Top, workshops and buildings.
	Deconstruct Large Tanks (e.g. Thickener)		@	\$191,599.38	\$0.00	Enter the number of tanks to be removed from the site.
	Deconstruct Small Tanks (e.g. Thickener)		@	\$60,883.94	\$0.00	Enter the number of tanks to be removed from the site.
	Remove carbonaceous material (spillage or otherwise) from footprint of the CHPP, ROM & Product stockpiles, conveyors and workshops		m ³	\$3.32	\$0.00	Enter the total volume (ie. area x depth of material) to be scalped off for disposal. UNIT RATE: Depends on the haulage distance to the point where the material is to be disposed.
	Final trim, rock rake & deep rip	4.1505	На	\$638.66	\$2,650.78	This item includes the areas requiring minor reshaping, rock raking and deep ripping to
	Source, cart and spread topsoil.	12452	m ³	\$1.53	\$19,085.60	enhance reveoetation program. This would include the entire CHPP area. This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the
						CHPP area IC comment - Assume 0.3m depth topsoil
	Spoil amelioration and supply and spread seed and fertiliser.	4.1505	На	\$4,726.12	\$19,615.75	This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser
		Precinct Sec	urity I		\$1,125,076.54	
Rail Line and Loop	Remove Rail Loop and spur	8000	m	\$7.66	\$61,311.80	This item includes the pulling up and removal from site of railway line and sleepers. Calculated as a lineal metre
	Reshape rail spur and load out area		На	\$6,386.65	\$0.00	This item includes the areas requiring reshaping once the rail line, sleepers and ballast has been removed.
	Final trim, rock rake & deep rip		На	\$638.66	\$0.00	This item includes the area requiring minor reshaping, rock raking and deep ripping (only as
	Spoil amelioration and supply and spread pasture seed and fertiliser.		На	\$4,726.12	\$0.00	required) to enhance revegetation program This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the apolication of orass seed and fertiliser
	and fertiliser.	Precinct Sec	urity I	Denosit	\$61,311.80	
Main Workshop Area	Disconnect and terminate services	Trecinct Dec	anty t	\$6,386,65	\$01,311.60	This item includes disconnecting and terminating all services such as power, water and sewer.
indiri Horkonop Arca			Ũ			It is a "one off" cost
	Demolish and remove small buildings		m²	\$89.41	\$0.00	Enter the total area of small buildings and offices in the workshop area. It should not include demountables which can be removed from site. It does not include workshops.
	Demolish and remove industrial buildings		m²	\$204.37	\$0.00	Enter the total area of workshop facilities in the area. Include all remote or field based workshop areas.
	Remove Concrete pads, Footings and bitumen (car park) for dumping in a void on the site		m²	\$12.77	\$0.00	Enter the total area the workshops and buildings. Include the area of any bitumen car parks (or similar). It would also include vehicle washdown pads, builk fuel bunding area and refuelling areas (i.e. all concrete areas in the workshop or precinct)
	Remove contaminated material from workshop and		m ³	\$2.55	\$0.00	 Enter the total volume (ie. area x depth of material) to be scalped off for disposal.
	hardstand areas for disposal in the decline void AND/OR					UNIT RATE: Depends on the haulage distance to the point where the material is to be disposed.
	Reshaping, capping, sealing of material presenting environmental difficulties (AMD, Hydrocarbon material, etc)		На	\$57,479.81	\$0.00	Enter the total area of material requiring capping or sealing. Where assessments have already been made and the presence/absence of contaminated material is know (and quantified) an alternative rate can be used. If this work has not been
	Removal of UG tank (including pipes, bunds, etc) (include all facilities on site)		@	\$95,799.69	\$0.00	undertaken a de A default rate per UGT is to be utilised.
	On site remediation of contaminated soil (<1000m ³)		m³	\$63.87	\$0.00	where an assessment of the volume of contaminated soil has been made this volume is to be included. Where the volume in <u>not known</u> or has not been quantified a default volume of
	On site remediation of contaminated soil (1000- 10,000m ³)		m³	\$51.09	\$0.00	3000m ² nor fuel strong facility is to be used in cell C-37 where an assessment of the volume of contaminated material has been made this volume of be included. Where the volume of not know or has not been quantified a default volume of
	On site remediation of contaminated soil (>10,000m ³)		m³	\$38.32	\$0.00	2000m ² har fuel streams facility is to be used where an assessment of the volume of contaminated soil has been made this volume is to be included. Where the volume in <u>not known</u> or has not been quantified a default volume of
	Final trim, rock rake & deep rip		На	\$638.66	\$0.00	3000m ³ per fuel storage facility is to be used in cell C:37 This item includes the area requiring minor reshaping, rock raking and deep ripping (only as
	Source, cart and spread topsoil.		m ³	\$1.53	\$0.00	required) to enhance revegetation program. This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the
	Spoil amelioration and supply and spread seed and		m Ha	\$4,726.12	\$0.00	workshop area. This item includes the area requiring the addition of ameliorates such as lime or gypsum prior
	fertiliser.		L			to the application of grass seed and fertiliser
		Precinct Sec			\$0.00	
Admin Buildings	Disconnect and terminate services		œ	\$6,386.65	\$0.00	This item includes disconnecting and terminating all services such as power, water and sewer. It is a "one off" cost
						IC Comment: Covered in Pit Top Infrastructure
	Demolish and remove small buildings		m²	\$89.41	\$0.00	Enter the total area of small buildings and offices in the admin area. It should not include
	Demolish and remove industrial buildings		m ²	\$204.37	\$0.00	demountables which can be removed from site. It does not include workshops. Enter the total area of workshop facilities in the admin area.
	Remove Concrete pads, Footings and bitumen (car park)		m m ²	\$12.77	\$0.00	Enter the total area the workshops and buildings. Include the area of any bitumen car parks (or
						similar)
	Final trim, rock rake & deep rip		На	\$638.66	\$0.00	This item includes the area requiring minor reshaping, rock raking and deep ripping (only as required) to enhance revegetation program
	Source, cart and spread topsoil.		m ³	\$1.53	\$0.00	IC Comment: Covered in Pit Too Infrastructure This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the admin area. IC Comment: Covered in Pit Too Infrastructure
	Spoil amelioration and supply and spread pasture seed		На	\$4,726.12	\$0.00	Enter the total area of the admin, etc footprint requiring to be covered with fertiliser (and/or lime
	and fertiliser.					& gyosum) prior to seeding UNITRATE: Depends the required rehabilitation commitment (ie. Trees will be more expensive than grass)
L	L				l	IC Comment: Covered in Pit Top Infrastructure

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(a. chemical spillage in / around storage sheds). (a) (b)								
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De-watering Bores Image: Cap exploration holes Image: Cap		Sharthing	000	m	\$24.00	\$14,012.13	IC comment: Assumed shaft diameter of 6m and 100m depth of fill.	
Cap exploration holes Image: Cap explorati		Shaft capping/sealing	1	Q	\$12,176.79	\$12,176.79	Simple capping/sealing to DRE standards	
Cape exploration holes Image: Period Participation holes Period Participati		De-watering Bores		@	\$3,831.99	\$0.00		
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Total Security Deposit for the "Domain"

\$1,273,122.51

Sub Domain 2: Tailings & Rejects Emplacements (1)

 Complete a separate sheef for each tallings dar/impoundment on the site.

 Detail of person filling out the Worksheet:
 Legent:

 Name Department Detail
 Michelle Grierson Environmental Officer
 Impout from site optional (if information available) input from site optional (if information available)

 Date
 ZS008/2015
 Impout from site optional (if information available)

 Volume Stored (if. coal fines, coarse or co-disposed) Volume Stored (m3)
 Materials Stored (if. coal fines, coarse or co-disposed)

 Volume Stored (m3)
 Maximum Embankment Height (m) Maximum Embankment Longth (m8)
 Impoundement (ha) Bried describe mahakment construction. Bried describe mahakment construction. Bried describe mahakment construction. Bried describe mahakment construction.
 Impoundement (ha) Bried describe mahakment construction.

Management Precinct	Activity / Description	Quantity	Unit	Unit Price	Total Cost	Description / Notes:
Tailings Dams / Emplacements	Source, cart and spread suitable material to cap the tailings emplacement (cap thickness determined by MOP)		m³	\$2.55	\$0.00	This includes sourcing, carting and spreading of a suitable volume material to cap the tailings emplacement. The material must have appropriate chemical & physical properties.
	Apply engineered treatment as required (i.e. capping, capillary breaks, etc) - design in accordance with the MOP commitments.		На	\$57,479.81	\$0.00	This includes the area that requires engineering treatment is required to satisfy conditions of the MOP, This may include compaction or addition of multiple layers and / or capillary breaks.
	Reshape walls / buttress around the dam / emplacement - earthworks only		На	\$6,386.65	\$0.00	This includes the area that requires stabilisation and reshaping works around the walls of the emplacement (i.e. removal of rills and pipes that may present long term stability issues)
	Final trim, rock rake & deep rip		На	\$638.66	\$0.00	This item includes the area requiring minor reshaping, rock raking and deep ripping (only as required) to enhance revegetation program
	Structural works, banks waterways		На	\$1,788.26	\$0.00	This item includes the area requiring earthworks (banks, & drains, etc) to manage all surface water on the top of the emplacement to ensure that it is shed off the cap.
	Source, cart and spread topsoil.		m³	\$1.53	\$0.00	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the tailings dam / emplacement.
	Spoil amelioration and supply and spread seed and fertiliser.		На	\$4,726.12	\$0.00	This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser
	Maintenance of rehabilitated areas (up to 5 years)		На	\$830.26	\$0.00	This item includes the total area of rehabilitation that has been established and requires subsequent fertiliser application. It assumes application twice on the first five (5) years after establishment
		Precinct Secu	ırity D	eposit	\$0.00	
Other	Other 1 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 2 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 3 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
		Precinct Security Deposit		eposit	\$0.00	
Coarse Rejects Emplacements	Source, cart and spread suitable material to cap the coarse rejects emplacement (cap thickness determined by MOP)		m³	\$2.55	\$0.00	This includes sourcing, carting and spreading of a suitable volume material to cap the coarse rejects emplacement. The material must have appropriate chemical & physical properties.
	Apply engineered treatment as required (i.e. capping, capillary breaks, etc) - design in accordance with the MOP commitments.		На	\$57,479.81	\$0.00	This includes the area that requires engineering treatment is required to satisfy conditions of the MOP. This may include compaction or addition of multiple layers and / or capillary breaks include the maximum of the satisfy a satisfy and the satisfy and the satisfy and the satisfy and the satisfy a sat
	Final trim, rock rake & deep rip		На	\$638.66	\$0.00	This item includes the area requiring minor reshaping, rock raking and deep ripping (only as required) to enhance revegetation program
	Structural works, banks waterways		На	\$1,788.26	\$0.00	This item includes the area requiring earthworks (banks, & drains, etc) to manage all surface water on the top of the emplacement to ensure that it is shed off the cap.
	Source, cart and spread topsoil.		m³	\$1.53	\$0.00	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the tailings dam / emplacement.
	Spoil amelioration and supply and spread seed and fertiliser.		На	\$4,726.12	\$0.00	This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser
	Maintenance of rehabilitated areas (up to 5 years)		На	\$830.26	\$0.00	This item includes the total area of rehabilitation that has been established and requires subsequent fertiliser application. It assumes application twice on the first five (5) years after establishment
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	Other 3 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
		Precinct Secu	urity D	anosit	\$0.00	

Total Security Deposit for the "Domain" \$0.00

Legend:

Sub Domain 3: Overburden & Waste Dumps

Detail of person filling out the Worksheet:

Name	Michelle Grierson	7	l I		Item fixed no entry required		
Position	Environmental Officer	-			Input from site optional (if info	armation available)	
	Health Safety Environment and Community				Input mandatory		
Department		-			input manuatory		
Date	25/08/2015						
Management Precinct	Activity / Description	Quantity	1.1 14	Unit Price	Total Cost	Description / Notes:	
Successful Rehabilitation	Maintenance of Established Revegetated Area	Quantity	Unit Ha	\$830.26	\$0.00	This item includes the total area of rehabilitation that have been established and require	
Succession Rehabilitation	Maintenance of Established Revegetated Area		па	\$630.20	\$0.00	subsequent fertiliser application. It assumes application twice on the first five (5) years after establishment	
	Maintenance of Shaped Topsoiled and Seeded		На	\$830.26	\$0.00	This item includes the total area of that have been shaped, topsoiled and seeded and requires subsequent fertiliser application. It assumes application twice in the first five (5) years after establishment	
		Precinct Secu	irity D	eposit	\$0.00		
Shaped Overburden Dumps	Final trim, rock rake & deep rip		На	\$638.66	\$0.00	This item includes the area requiring minor reshaping, rock raking and deep ripping (only as required) to enhance revegetation program	
	Structural works, banks, rock lined waterways		На	\$1,788.26	\$0.00	This item includes the area requiring earthworks (banks, & drains, etc) to manage all surface water on the top of the emplacement to ensure that it is shed off the reshaped area.	
	Source, cart and spread topsoil.		m³	\$1.53	\$0.00	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the reshaped dump.	
	Spoil amelioration and supply and spread seed and fertiliser.		На	\$4,726.12	\$0.00	This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser	
	Maintenance of rehabilitated areas (up to 5 years)		На	\$830.26	\$0.00	This item includes the total area of that have been shaped, topsoiled and seeded and requires subsequent fertiliser application. It assumes application twice in the first five (5) years after establishment	
		Precinct Secu	ırity D	eposit	\$0.00		
Unshaped Overburden Dumps (minor reshaping required)	Minor pushing, final trim, rock rake & deep rip		На	\$638.66	\$0.00	This item includes the area requiring minor reshaping, rock raking and deep ripping (only as required) to enhance revegetation program	
(million roomaphing required)	Structural works, banks, rock lined waterways		На	\$1,788.26	\$0.00	This item includes the area requiring earthworks (banks, & drains, etc) to manage all surface water on the top of the emplacement to ensure that it is shed off the reshaped area.	
	Source, cart and spread topsoil.		m³	\$1.53	\$0.00	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the reshaped dump.	
	Spoil amelioration and supply and spread seed and fertiliser.		На	\$4,726.12	\$0.00	This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser	
	Maintenance of rehabilitated areas (up to 5 years)		На	\$830.26	\$0.00	This item includes the total area of that have been shaped, topsoiled and seeded and requires subsequent fertiliser application. It assumes application twice in the first five (5) years after establishment	
		Precinct Secu	ırity D	eposit	\$0.00		
Unshaped Overburden Dumps (major earthworks required)	Major bulk pushing to achieve grades nominated in the MOP (i.e. < 18°)		m ³	\$1.41	\$0.00	This item includes the volume requiring major reshaping, rock raking and deep ripping (only as required) to enhance revegetation program	
	Structural works, banks, rock lined waterways		На	\$1,788.26	\$0.00	This item includes the area requiring earthworks (banks, & drains, etc) to manage all surface water on the top of the emplacement to ensure that it is shed off the cap.	
	Source, cart and spread topsoil.		m ³	\$1.53	\$0.00	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the reshaped dump.	
	Spoil amelioration and supply and spread seed and fertiliser.		На	\$4,726.12	\$0.00	This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser	
	Maintenance of rehabilitated areas (up to 5 years)		На	\$830.26	\$0.00	This item includes the total area of that have been shaped, topsoiled and seeded and requires subsequent fertiliser application. It assumes application twice in the first five (5) years after establishment	
		Precinct Secu	irity D	eposit	\$0.00		
Other	Other 1 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>	
	Other 2 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>	
	Other 3 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>	
		Precinct Secu	rity D	eposit	\$0.00		

Total Security Deposit for the "Domain"

Sub Domain 4: Surface Disturbance

Detail of person filling out the Workshe	et:			Legend:		
Name	Michelle Grierson	1			Item fixed no entry required	
Position	Environmental Officer				Input from site optional (if informat	
Department	Health Safety Environment and Community	4			Input mandatory	on available)
Department	25/08/2015	-			input mandatory	
Date	20/00/2013	J				
Management Precinct	Activity / Description	Quantity	Unit	Unit Price	Total Cost	Description / Notes:
Initial Boxcuts & Other Voids	Drill & Blast Highwall					This item includes the total area of rehabilitation that have been established and require
			m ³	\$0.89	\$0.00	subsequent fertiliser application. It assumes application twice on the first five (5) years after
	Major bulk pushing of the high wall are to achieve grades			\$0.09	\$0.00	establishment UNIT RATE: drill & blast + dozer push This item includes the volume requiring major reshaping, rock raking and deep ripping (only as
	nominated in the MOP (i.e < 18°)		m ³	\$1.41	\$0.00	required) to enhance revegetation program UNIT RATE: dozer push rate
	Final trim, rock rake & deep rip		-			This item includes the area requiring minor reshaping, rock raking and deep ripping (only as
			Ha	\$638.66	\$0.00	required) to enhance revegetation program
	Source, cart and spread topsoil (at 20cm)		m ³	\$1.53	\$0.00	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the reshaped areas
	Spoil amelioration and supply and spread pasture seed		<u> </u>			This item includes the area requiring the addition of ameliorates such as lime or gypsum prior
	and fertiliser.		На	\$4,726.12	\$0.00	to the application of grass seed and fertiliser
	Security Fence around steep section highwall			\$63.87	\$0.00	This item includes the erection of a 2m security fence (lineal metre) around the void and other
	High wall treatment - (trench + safety berm)	H	m	\$03.87	\$0.00	dangerous areas. This item includes the construction of a safety berm and rill (lineal metre) around the highwall
	righ wai treathent - (trench + sarety berni)		m	\$73.45	\$0.00	to stop all vehicles, etc accidentally driving over haul road (engineered control).
		Precinct Secu	urity [Deposit	\$0.00	
Disturbance ahead of Mining + water management structures	Areas cleared on the surface - re-establish vegetation commensurate with surrounding vegetation		На	\$2.682.39	\$0.00	This includes the direct application of seed to restore the vegetation that was disturbed as part of clearing operations ahead of the mine.
	Areas topsoil stripped on the surface - source cart and		на	\$2,082.39	\$0.00	
	respread topsoil		m ³	\$2.55	\$0.00	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the reshaped areas
	Reshape, deep rip, ameliorate and seed highwall / internal			\$2.00	\$0.00	This item includes the area requiring the addition of ameliorates such as lime or gypsum prior
	access roads and tracks		Ha	\$6,386.65	\$0.00	to the application of grass / tree seed and fertiliser
	Reshape, deep rip, ameliorate and seed exploration lines /					This item includes the area requiring the addition of ameliorates such as lime or gypsum prior
	areas		Ha	\$4,726.12	\$0.00	to the application of grass / tree seed and fertiliser
		Precinct Secu	urity [Deposit	\$0.00	
Dams & Water Holding Structures	Clean water dams to be retained after mine closure - make safe and minor earthworks.	4	@	\$2,554.66	\$10,218.63	This item includes making the dam spillway, and walls stable and ensuring the integrity of the dam wall, etc.
	Dirty Water Dams (Drain and remove sediments to make					This item includes draining the dam and removing 500mm of potentially contaminated (saline) sediments to be buried in the pit. UNIT RATE: must consider the distance from the dam to the
	dam clean water)					disposal area.
			m	\$4.09	\$0.00	
		Precinct Secu	urity D	Deposit	\$10,218.63	
River & Creek Diversions	Creek diversion - Channel maintenance through spoil / backfill (20% of estimated diversion construction costs due to unknown landform stability)					This item includes the length (m) of diversion requiring angoing maintenance (constructed through unconsolidated overburden). This will include earthworks repairs and stabilisation following flow events. It assumes a suitably qualified engineer has designed and signed off on
		<u> </u>	m	\$383.20	\$0.00	construction of the diversion
	Creek diversion - Channel maintenance insitu (10% of estimated construction cost for diversion)					This item includes the length (m) of diversion requiring ongoing maintenance (constructed through natural ground). This will include earthworks repairs and stabilisation following flow events. It assumes a suitably qualified engineer has designed and signed off on construction
	Occurs discontration and an and a second		m	\$191.60	\$0.00	of the diversion This item includes the ongoing maintenance of vegetation within the diversion channel &
	Creek diversion - Vegetation maintenance		m ²	\$0.38	\$0.00	batters.
		Precinct Secu	urity C	Deposit	\$0.00	
Other	Other 1 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 2 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 3 <insert></insert>				\$0.00 \$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>

Total Security Deposit for the "Domain"

\$10,218.63

Sub Domain 5: Other

Detail of person filling out the Worksheet:				Legend:			
Name Position Department Date	Michelle Grierson Environmental Officer Health Safety Environment and Community 25/08/2015				item fixed no entry required input from site optional (if information available) input mandatory		
Management Precinct Other (eg. site contamination, closure plan preparation, etc)	Activity / Description The restoration and care and maintenance of items that have historical significance and are to be retained after the cessation of mining	Quantity	@	Unit Price \$25,546.58	Total Cost \$0.00	Description / Notes: This item includes ensuring that sufficient resources are made available to restore items of heritage significance and also provide money to enable the ongoing care and maintenance of the structure (if not the responsibility of any another stakeholder i.e. council, historical society)	
	Cap exploration holes Construction / Deconstruction of Bridges and crossings		8	\$319.33 \$0.00	\$0.00 \$0.00	This includes capping & rehabilitation of all old Cap exploration holes around the site Value to be provided by company	
	Construction of Fencing - general Other 5 <insert> Other 6 <insert></insert></insert>		0	\$63.87	\$0.00 \$0.00 \$0.00	Includes general fencing around site or site works This item includes < <to added="" be="" by="" operator="" the="">> This item includes <<to added="" be="" by="" operator="" the="">></to></to>	
	Other 7 <inset> Other 8 <inset> Other 8 <inset> Other 9 <inset></inset></inset></inset></inset>				\$0.00 \$0.00 \$0.00 \$0.00	This item includes < <to added="" be="" by="" operator="" the="">> This item includes <<to added="" be="" by="" operator="" the="">> This item includes <<to added="" be="" by="" operator="" the="">> This item includes <<to added="" be="" by="" operator="" the="">></to></to></to></to>	
	Other 10 <insert></insert>	Precinct Sec	urity D	eposit	\$0.00 \$0.00	This item includes < <to added="" be="" by="" operators="" the=""> This item includes <<to added="" be="" by="" operators="" the=""></to></to>	

Total Security Deposit for the "Domain"

Domain 1: Kemira Valley West TOTAL

\$0.00

\$1,283,341.15

Domain 2: Vent Shafts 2/3

Sub Domain 1: Infrastructure Areas

Detail of person filling out the Worksheet:
 Name
 Michelle Grierson

 Position
 Environmental Officer

 Department
 Health Safety Environment and Community

I of person filling out the Workshe	et.			Legend:			
Name	Michelle Grierson				Item fixed no entry required		
Position	Environmental Officer				Input from site optional (if information available)		
Department	Health Safety Environment and Community 25/08/2015				Input mandatory		
Date	25/08/2015	-					
Management Precinct	Activity / Description	Quantity	Unit	Unit Price	Total Cost	Description / Notes:	
Pit Top Infrastructure	Disconnect and terminate services	1	®	\$31,933.23	\$31,933.23	This item includes disconnecting and terminating all services such as power, water and sewer. It is a "one off" cost	
	Disconnect and terminate powerlines		km	\$14,050.62	\$0.00	This item includes the cost to terminate and remove powerlines, and is based on the average cost to construct	
	Demolish and remove small buildings		m²	\$89.41	\$0.00	Enter the total area of small buildings and offices in the CHPP area. It should not include	
	Demolish and remove industrial buildings		m ²	\$204.37	\$0.00	demountables which can be removed from site. It does not include workshops. Enter the total area of workshop facilities in the CHPP area.	
	Demolish and remove Misc Plant		m²	\$204.37	\$0.00	Enter the total surface area of the CHPP. If the CHPP is multi-story the entry should be the sum of the surface area for all floors.	
	Demolish and remove conveyors & gantries (includes overland conveyors)		m	\$70.25	\$0.00	Enter the sum of the total length of conveyor and gantries. This includes conveyor to rail load out areas of conveyor from hoppers feeding back to the CHPP.	
	Remove Concrete pads and Footings	280	m ²	\$12.77	\$3,576.52	Enter the total area the CHPP, workshops and buildings. Enter the number of tanks to be removed from the site.	
	Deconstruct Large Tanks (e.g. Thickener) Deconstruct Small Tanks (e.g.Thickener)		Q Q	\$191,599.38 \$60,883.94	\$0.00 \$0.00	Enter the number of tanks to be removed from the site. Enter the number of tanks to be removed from the site.	
	Remove carbonaceous material (spillage or otherwise) from footprint of the CHPP, ROM & Product stockpiles, conveyors and workshops		m ³	\$3.32	\$0.00	Enter the total volume (ie, area when to be the state of	
	Final trim, rock rake & deep rip	0.028	На	\$638.66	\$17.88	This item includes the areas requiring minor reshaping, rock raking and deep ripping to enhance revegetation program. This would include the entire CHPP area.	
	Source, cart and spread topsoil.	84	m³	\$1.53	\$128.75	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the CHPP area	
	Spoil amelioration and supply and spread seed and fertiliser.	0.028	На	\$4,726.12	\$132.33	IC comment 18/09/14 - Assume 0.3m depth topsoil This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser	
		Precinct Sec			\$35,788.72		
Rail Line and Loop	Remove Rail Loop and spur		m	\$7.66	\$0.00	This item includes the pulling up and removal from site of railway line and sleepers. Calculated as a lineal metre	
	Reshape rail spur and load out area		На	\$6,386.65	\$0.00	This item includes the areas requiring reshaping once the rail line, sleepers and ballast has been removed	
	Final trim, rock rake & deep rip		На	\$638.66	\$0.00	This item includes the area requiring minor reshaping, rock raking and deep ripping (only as required) to enhance revegetation program	
	Spoil amelioration and supply and spread pasture seed and fertiliser.		Ha	\$4,726.12	\$0.00	This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser	
		Precinct Sec	curity I	Deposit	\$0.00		
Main Workshop Area	Disconnect and terminate services		@	\$6,386.65	\$0.00	This item includes disconnecting and terminating all services such as power, water and sewer. It is a "one off" cost	
	Demolish and remove small buildings		m²	\$89.41	\$0.00	Enter the total area of small buildings and offices in the workshop area. It should not include demountables which can be removed from site. It does not include workshops.	
	Demolish and remove industrial buildings		m²	\$204.37	\$0.00	Entroumables which can be removed from site, it does not include workshops.	
	Remove Concrete pads, Footings and bitumen (car park) for dumping in a void on the site		m²	\$12.77	\$0.00	Enter the total area the workshops and buildings. Include the area of any bitumen car parks (or similar). It would also include whicle washdown pads, bulk fuel bunding area and refuelling areas (i.e. all concrete areas in the workshop crecinct)	
	Remove contaminated material from workshop and hardstand areas for disposal in the decline void AND/OR		m³	\$2.55	\$0.00	Indianua areas of an outputte and an output areas of the workshow because 0) Enter the total volume (c) area x depth of material) to be scalped off for disposal. UNIT RATE: Depends on the haulage distance to the point where the material is to be disposed.	
	Reshaping, capping, sealing of material presenting environmental difficulties (AMD, Hydrocarbon material, etc)		На	\$57,479.81	\$0.00	Enter the total area of material requiring capping or sealing. Where assessments have already been made and the presence/absence of contaminated material is know (and quantified) an alternative rate can be used. If this work has not been	
	Removal of UG tank (including pipes, bunds, etc) (include all facilities on site)		@	\$95,799.69	\$0.00	undertaken, a.de A default rate per UGT is to be utilised.	
	On site remediation of contaminated soil (<1000m ³)		m³	\$63.87	\$0.00	where an assessment of the volume of contaminated soil has been made this volume is to be included. Where the volume in <u>not known</u> or has not been quantified a default volume of 3000m ³ are fuel storage facility is to be used in cell C-32.	
	On site remediation of contaminated soil (1000- 10,000m ³)		m³	\$51.09	\$0.00	where an assessment of the volume of contaminated material has been made this volume is to be included. Where the volume of contaminated material has been made this volume is a 200m ² are first laterate relitivit to be used.	
	On site remediation of contaminated soil (>10,000m ³)		m³	\$38.32	\$0.00	where an assessment of the volume of contaminated soil has been made this volume is to be included. Where the volume in <u>not known</u> or has not been quantified a default volume of	
	Final trim, rock rake & deep rip		На	\$638.66	\$0.00	3000m ³ nor fuel storang facility is to be used in cell C-37. This item includes the area requiring minor reshaping, rock raking and deep ripping (only as required) to enhance reveatation program.	
	Source, cart and spread topsoil.		m ³	\$1.53	\$0.00	Treduired) to enhance revealed on program. This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the workshop area.	
	Spoil amelioration and supply and spread seed and fertiliser.		На	\$4,726.12	\$0.00	This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser	
		Precinct Sec			\$0.00		
Admin Buildings	Disconnect and terminate services		œ	\$6,386.65	\$0.00	This item includes disconnecting and terminating all services such as power, water and sewer. It is a "one off" cost	
	Demolish and remove small buildings		m²	\$89.41	\$0.00	Enter the total area of small buildings and offices in the admin area. It should not include demountables which can be removed from site. It does not include workshoos.	
	Demolish and remove industrial buildings		m²	\$204.37	\$0.00	demountables which can be removed from site. It does not include workshoos. Enter the total area of workshop facilities in the admin area.	
	Remove Concrete pads, Footings and bitumen (car park)		m²	\$12.77	\$0.00	Enter the total area the workshops and buildings. Include the area of any bitumen car parks (or similar)	
	Final trim, rock rake & deep rip		На	\$638.66	\$0.00	This item includes the area requiring minor reshaping, rock raking and deep ripping (only as required) to enhance revecetation program	
	Source, cart and spread topsoil.		m³	\$1.53	\$0.00	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the admin area.	
	Spoil amelioration and supply and spread pasture seed		Ha	\$4,726.12	\$0.00	Enter the total area of the admin, etc footprint requiring to be covered with fertiliser (and/or	

Legend:

		Precinct Sec	urity	Deposit	\$0.00	
Access Roads & Haul Roads	Remove carbonaceous material from roadways (coal / rejects spillage)		m³	\$3.32	\$0.00	Enter the total volume (ie. area x depth of material) to be scalped off for disposal. UNIT RATE: Depends on the haulage distance to the point where the material is to be disposed. IC.comment 18/09/14 - Assume 0.2m depth of material.
	Reshape deep rip and ameliorate sealed / unsealed roads	0.9951	На	\$6,386.65	\$6,355.35	Enter the total area of the road footprint requiring to be covered with fertiliser (and/or lime & gypsum) prior to seeding UNIT RATE: Depends the required rehabilitation commitment (ie. Trees will be more expression than crease)
	Source, cart and spread topsoil.	2985.3	m ³	\$1.53	\$4,575.85	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the access roads & haul roads. IC comment - Assume 0.3m depth topsoil
	Spoil amelioration and supply and spread seed and fertiliser.	0.9951	На	\$4,726.12	\$4,702.96	This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser
		Precinct Sec	urity		\$15,634.16	
Sewerage / Water Treatment Plant	Disconnect and terminate services		@	\$3,193.32	\$0.00	This item includes disconnecting and terminating all services such as power, water and sewer. It is a "one off" cost
	Demolish and remove small buildings / tanks		m ²	\$89.41	\$0.00	Enter the total area of small buildings and tanks.
	Remove contaminated material from areas for disposal (ie. chemical spillage in / around storage sheds).		m³	\$2.55	\$0.00	Enter the total volume (ie, area x depth of material) to be scalped off for disposal. UNIT RATE: Depends on the haulage distance to the point where the material is to be disposed.
	Final trim, rock rake & deep rip	0	На	\$638.66	\$0.00	This item includes the area requiring minor reshaping, rock raking and deep ripping (only as required) to enhance revecetation program
	Source, cart and spread topsoil.	0	m ³	\$1.53	\$0.00	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the severage / water treatment plant.
	Spoil amelioration and supply and spread seed and fertiliser.	0	На	\$4,726.12	\$0.00	This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser
		Precinct Sec	urity	Deposit	\$0.00	
Hardstand /Laydown Areas (across the entire site)	Remove contaminated material from areas for disposal (ie. chemical/hydrocarbon spillage in the hard stand area).		m ³	\$2.55	\$0.00	Enter the total volume (ie. area x depth of material) to be scalped off for disposal. UNIT RATE: Depends on the haulage distance to the point where the material is to be disposed.
	Deep rip hard stand / laydown areas	0.0481	На	\$638.66	\$30.72	This item includes ripping hard stand and lay down areas to enhance the rehabilitation program.
	Source, cart and spread topsoil.	144.30	m³	\$1.53	\$221.18	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the hard stands and lay down areas
	Spoil amelioration and supply and spread seed and fertiliser.	0.05	На	\$4,726.12	\$227.33	This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser
		Precinct Sec	urity	Deposit	\$479.23	
Underground Infrastructure	Seal Portal / Decline Entry	2	œ	\$28,101.24	\$56,202.48	This includes sealing the portal to make safe and ensure access can not be obtained. The number of portals for the whole mine is to be included
	Seal & rehabilitate of ventilation fans.	2	@	\$31,933.23	\$63,866.46	This includes sealing & rehabilitation of the ventilation fans to make safe. The number of ventilation fans for the whole mine is to be included.
	Shaft filling	3000	m ³	\$24.35	\$73,060.73 \$24,353.58	This includes filling of shafts using onsite material. IC comment: Assumed shaft diameter of 6m and 250m depth of fill. Simple capping/sealing to DRE standards
-	Shaft capping/sealing De-watering Bores	2	œ	\$12,176.79 \$3,831.99	\$24,353.58	Simple cappingsealing to DRE standards This includes sealing & rehabilitation of the dewatering bores to make safe. The total number of dewatering bores for the whole mine is to be included.
	Cap exploration holes		Q	\$319.33	\$0.00	This includes capping & rehabilitation of all old Cap exploration holes around the site
	Minor earthworks and maintenance of mine subsidence areas		Ha	\$1,277.33	\$0.00	This includes undertaking surface drainage works, etc as required to remediate areas affected by Mine subsidence (outside the jurisdiction of the mine subsidence board)
		Precinct Sec	urity	Deposit	\$217.483.25	
Other	Other 1 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 2 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 3 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
		Precinct Sec	urity	Deposit	\$0.00	

Total Security Deposit for the "Domain"

\$269,385.36

Sub Domain 2: Tailings & Rejects Emplacements (1)

Complete a separate sheet for each tai Detail of person filling out the Workshe				Legend:					
Name Position Department Date	Michelle Grierson Environmental Officer Health Safety Environment and Community 25/08/2015				tem fixed no entry required Input from site optional (if information available) Input mandatory				
	Tailings Dam / Impoundment (Key Information):								
	Materials Stored (ie. coal fines, coarse or co-dispose Volume Stored (m3) Maximum Embankment Height (m) Maximum Embankment Length (m) Year Dam / Emplacement Commissioned Storage area (na) Catchment Area of Tailings Dam / Emplacement (ha) Erlefty describe embankment construction. (earthen, clay /rejects core, etc)								
Management Precinct	Activity / Description	Quantity	Unit	Unit Price	Total Cost \$0.00	Description / Notes: This includes sourcing, carting and spreading of a suitable volume material to cap the			
Tailings Dams / Emplacements	Source, cart and spread suitable material to cap the tailings emplacement (cap thickness determined by MOP)		m ³	\$2.55	\$0.00	tailings emplacement. The material must have appropriate chemical & physical properties.			
	Apply engineered treatment as required (i.e. capping, capillary breaks, etc) - design in accordance with the MOP commitments.		На	\$57,479.81	\$0.00	This includes the area that requires engineering treatment is required to satisfy conditions of the MOP, This may include compaction or addition of multiple layers and / or capillary breaks.			
	Reshape walls / buttress around the dam / emplacement - earthworks only		На	\$6,386.65	\$0.00	This includes the area that requires stabilisation and reshaping works around the walls of the emplacement (i.e. removal of rills and pipes that may present long term stability issues)			
	Final trim, rock rake & deep rip		На	\$638.66	\$0.00	This item includes the area requiring minor reshaping, rock raking and deep ripping (only as required) to enhance revenetation program			
	Structural works, banks waterways		На	\$1,788.26	\$0.00	This item includes the area requiring earthworks (banks, & drains, etc) to manage all surface			
	Source, cart and spread topsoil.		m ³	\$1.53	\$0.00	water on the top of the emplacement to ensure that it is shed off the cap. This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the			
	Spoil amelioration and supply and spread seed and fertiliser.		На	\$4,726.12	\$0.00	tailings dam / emplacement. This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser			
	Maintenance of rehabilitated areas (up to 5 years)		На	\$830.26	\$0.00	This item includes the total area of rehabilitation that has been established and requires subsequent fertiliser application. It assumes application twice on the first five (5) years after			
		Precinct Sec	urity	Deposit	\$0.00	establishment			
Other	Other 1 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>			
	Other 2 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>			
	Other 3 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>			
	a	Precinct Sec			\$0.00				
Coarse Rejects Emplacements	Source, cart and spread suitable material to cap the coarse rejects emplacement (cap thickness determined by MOP)		m ³	\$2.55	\$0.00	This includes sourcing, carting and spreading of a suitable volume material to cap the coarse rejects emplacement. The material must have appropriate chemical & physical properties.			
	Apply engineered treatment as required (i.e. capping, capillary breaks, etc) - design in accordance with the MOP commitments.		На	\$57,479.81	\$0.00	This includes the area that requires engineering treatment is required to satisfy conditions of the MOP, This may include compaction or addition of multiple layers and / or capillary breaks.			
	Final trim, rock rake & deep rip		На	\$638.66	\$0.00	This item includes the area requiring minor reshaping, rock raking and deep ripping (only as			
	Structural works, banks waterways		На	\$1,788.26	\$0.00	required) to enhance revealetation program This item includes the area requiring earthworks (banks, & drains, etc) to manage all surface under an the text of the series requiring the series that his shed of the series			
	Source, cart and spread topsoil.		m ³	\$1.53	\$0.00	water on the top of the emplacement to ensure that it is shed off the cap. This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the tailings dam / emplacement.			
	Spoil amelioration and supply and spread seed and fertiliser.		На	\$4,726.12	\$0.00	This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser			
	Maintenance of rehabilitated areas (up to 5 years)		На	\$830.26	\$0.00	This item includes the total area of rehabilitation that has been established and requires subsequent fertiliser application. It assumes application twice on the first five (5) years after establishment			
					\$0.00				
Other	Other 1 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>			
	Other 2 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>			
	Other 3 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>			
		Precinct Sec	urity	Deposit	\$0.00				

Total Security Deposit for the "Domain"

\$0.00

Sub Domain 3: Overburden & Waste Dumps

Detail of person filling out the Workshe	et:	Legend:	
	Michelle Grierson Environmental Officer		Item fixed no entry required Input from site optional (if information available)
	Health Safety Environment and Community		Input mandatory
Date	25/08/2015		

Management Precinct	Activity / Description	Quantity	Unit	Unit Price	Total Cost	Description / Notes:
Successful Rehabilitation	Maintenance of Established Revegetated Area	Quantity	Ha	\$830,26	\$0.00	This item includes the total area of rehabilitation that have been established and require
Successful Renabilitation	Maintenance of Established Revegetated Area		па	\$830.26	\$0.00	subsequent fertiliser application. It assumes application twice on the first five (5) years after
						establishment
	Maintenance of Shaped Topsoiled and Seeded		Ha	\$830.26	\$0.00	This item includes the total area of that have been shaped, topsoiled and seeded and
						requires subsequent fertiliser application. It assumes application twice in the first five (5)
						vears after establishment
		Precinct Sec	urity l	Deposit	\$0.00	
Shaped Overburden Dumps	Final trim, rock rake & deep rip		На	\$638.66	\$0.00	This item includes the area requiring minor reshaping, rock raking and deep ripping (only as required) to enhance revegetation program
	Structural works, banks, rock lined waterways		На	\$1,788.26	\$0.00	This item includes the area requiring earthworks (banks, & drains, etc) to manage all surface water on the top of the emplacement to ensure that it is shed off the reshaped area.
	Source, cart and spread topsoil.		m ³	\$1.53	\$0.00	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the reshaped dump.
	Spoil amelioration and supply and spread seed and fertiliser.		На	\$4,726.12	\$0.00	This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser
	Maintenance of rehabilitated areas (up to 5 years)		На	\$830.26	\$0.00	This item includes the total area of that have been shaped, topsoiled and seeded and requires subsequent fertiliser application. It assumes application twice in the first five (5) vests after establishment
		Precinct Sec	urity I	Deposit	\$0.00	
Unshaped Overburden Dumps (minor reshaping required)	Minor pushing, final trim, rock rake & deep rip		На	\$638.66	\$0.00	This item includes the area requiring minor reshaping, rock raking and deep ripping (only as required) to enhance revegetation program
(minor resnaping required)	Structural works, banks, rock lined waterways		На	\$1,788.26	\$0.00	This item includes the area requiring earthworks (banks, & drains, etc) to manage all surface water on the top of the emplacement to ensure that it is shed off the reshaped area.
	Source, cart and spread topsoil.		m ³	\$1.53	\$0.00	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the reshaped dump.
	Spoil amelioration and supply and spread seed and fertiliser.		На	\$4,726.12	\$0.00	This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser
	Maintenance of rehabilitated areas (up to 5 years)		На	\$830.26	\$0.00	This item includes the total area of that have been shaped, topsoiled and seeded and requires subsequent fertiliser application. It assumes application twice in the first five (5) vears after establishment
		Precinct Sec	curity I	Deposit	\$0.00	
Unshaped Overburden Dumps (major earthworks required)	Major bulk pushing to achieve grades nominated in the MOP (i.e. < 18°)		m ³	\$1.41	\$0.00	This item includes the volume requiring major reshaping, rock raking and deep ripping (only as required) to enhance revegetation program
(Structural works, banks, rock lined waterways		На	\$1,788.26	\$0.00	This item includes the area requiring earthworks (banks, & drains, etc) to manage all surface water on the top of the emplacement to ensure that it is shed off the cap.
	Source, cart and spread topsoil.		m ³	\$1.53	\$0.00	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the reshaped dump.
	Spoil amelioration and supply and spread seed and fertiliser.		На	\$4,726.12	\$0.00	This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass seed and fertiliser
	Maintenance of rehabilitated areas (up to 5 years)		На	\$830.26	\$0.00	This item includes the total area of that have been shaped, topsoiled and seeded and requires subsequent fertiliser application. It assumes application twice in the first five (5) waars after establishment
		Precinct Sec	urity I	Deposit	\$0.00	
	Other 1 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
Other						
Other	Other 2 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
Other						This item includes < <to added="" be="" by="" operator="" the="">> This item includes <<to added="" be="" by="" operator="" the="">></to></to>

Total Security Deposit for the "Domain"

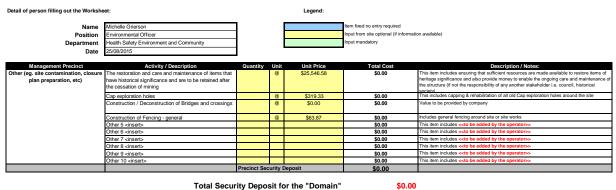
Sub Domain 4: Surface Disturbance

Detail of person filling out the Worksh	eet:			Legend:		
Name	Michelle Grierson	1			Item fixed no entry required	
Position	Environmental Officer				Input from site optional (if informat	
Department	Health Safety Environment and Community				Input mandatory	ion available)
Department	25/08/2015				input manualory	
Date	23/06/2013	1				
Management Precinct	Activity / Description	Quantity	Unit	Unit Price	Total Cost	Description / Notes:
Initial Boxcuts & Other Voids	Drill & Blast Highwall					This item includes the total area of rehabilitation that have been established and require
	-		m ³	\$0.89	\$0.00	subsequent fertiliser application. It assumes application twice on the first five (5) years after
	Major bulk pushing of the high wall are to achieve grades			\$0.03	\$0.00	establishment UNIT RATE: drill & blast + dozer push This item includes the volume requiring major reshaping, rock raking and deep ripping (only
	nominated in the MOP (i.e < 18°)		m ³	\$1.41	\$0.00	as required) to enhance revegetation program UNIT RATE: dozer push rate
	Final trim, rock rake & deep rip			A		This item includes the area requiring minor reshaping, rock raking and deep ripping (only as
			На	\$638.66	\$0.00	required) to enhance revegetation program
	Source, cart and spread topsoil (at 20cm)		m ³	\$1.53	\$0.00	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the reshaped areas
	Spoil amelioration and supply and spread pasture seed					This item includes the area requiring the addition of ameliorates such as lime or gypsum
	and fertiliser.		Ha	\$4,726.12	\$0.00	prior to the application of grass seed and fertiliser
	Security Fence around steep section highwall		m	\$63.87	\$0.00	This item includes the erection of a 2m security fence (lineal metre) around the void and
	High wall treatment - (trench + safety berm)			\$03.07		other dangerous areas. This item includes the construction of a safety berm and rill (lineal metre) around the
	riigit itali acaanone (achori t calcij com)		m	\$73.45	\$0.00	highwall to stop all vehicles, etc accidentally driving over haul road (engineered control).
		Precinct Sec	urity I	Deposit	\$0.00	
Disturbance ahead of Mining + water	Areas cleared on the surface - re-establish vegetation					This includes the direct application of seed to restore the vegetation that was disturbed as
management structures	commensurate with surrounding vegetation					part of clearing operations ahead of the mine.
			На	\$2,682.39	\$0.00	
	Areas topsoil stripped on the surface - source cart and respread topsoil		m ³	\$2.55	\$0.00	This includes sourcing, carting and spreading of a suitable volume of topsoil to cover the reshaped areas
	Reshape, deep rip, ameliorate and seed highwall /			\$2.00	\$0.00	
	internal access roads and tracks		На	\$6,386,65	\$0.00	This item includes the area requiring the addition of ameliorates such as lime or gypsum prior to the application of grass / tree seed and fertiliser
	Reshape, deep rip, ameliorate and seed exploration lines			40,000.00	\$0.00	This item includes the area requiring the addition of ameliorates such as lime or gypsum
	/ areas		На	\$4,726.12	\$0.00	prior to the application of grass / tree seed and fertiliser
		Precinct Sec	urity	Deposit	\$0.00	
Dams & Water Holding Structures	Clean water dams to be retained after mine closure -					This item includes making the dam spillway, and walls stable and ensuring the integrity of
-	make safe and minor earthworks.	4	æ	\$2,554.66	\$10,218.63	the dam wall, etc.
	Dirty Water Dams (Drain and remove sediments to make					This item includes draining the dam and removing 500mm of potentially contaminated
	dam clean water)					(saline) sediments to be buried in the pit. UNIT RATE: must consider the distance from the dam to the disposal area.
			m ³	\$4.09	\$0.00	dam to are disposar area.
		Precinct Sec	urity I	Deposit	\$10,218.63	
River & Creek Diversions	Creek diversion - Channel maintenance through spoil /					This item includes the length (m) of diversion requiring ongoing maintenance (constructed
	backfill (20% of estimated diversion construction costs					through unconsolidated overburden). This will include earthworks repairs and stabilisation
	due to unknown landform stability)					following flow events. It assumes a suitably qualified engineer has designed and signed off on construction of the diversion
	Oracle diversities Observed evaluation are in the Oracle of		m	\$383.20	\$0.00	This item includes the length (m) of diversion requiring ongoing maintenance (constructed
	Creek diversion - Channel maintenance insitu (10% of					I his item includes the length (m) or diversion requiring ongoing maintenance (constructed through natural ground). This will include earthworks repairs and stabilisation following flow
	estimated construction cost for diversion)		_	\$191.60	£0.00	events. It assumes a suitably qualified engineer has designed and signed off on construction
	Crack diversion Vegetation maintenance		m	\$191.6U	\$0.00	of the diversion This item includes the ongoing maintenance of vegetation within the diversion channel &
	Creek diversion - Vegetation maintenance		m ²	\$0.38	\$0.00	batters.
		Precinct Sec	urity I	Deposit	\$0.00	
Other	Other 1 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 2 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
	Other 3 <insert></insert>				\$0.00	This item includes < <to added="" be="" by="" operator="" the="">></to>
		Precinct Sec	urity I	Deposit	\$0.00	

Total Security Deposit for the "Domain"

\$10,218.63

Sub Domain 5: Other

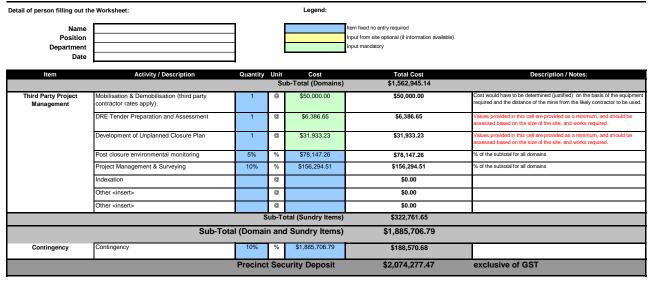


Total Security Deposit for the "Domain"

Domain 2: Vent Shafts 2/3 TOTAL

\$279,604.00

Third Party Project Management & Contingencies



 Sub-Total Rehabilitation Estimate for "Domains"
 \$1,562,945.14

 Total Rehabilitation Estimate for "Sundry Items"
 \$322,761.65

 Contingency (based on Sundry and Domains)
 \$188,570.68

 Total Rehabilitation Estimate
 \$2,074,277.47 exclusive of GST

Department of Primary Industries Mineral Resources - Environment Branch Rehabilitation Cost Calculation Spreadsheet



Justification for Change of Rates in Resources & Energy Rehabilitation Cost Calculation Tool

Domain	Activity	DRE unit/rate	Adopted Rates	Justification

In completing the R&E Rehabilitation Cost Calculation, we are seeking an adjustment to the rates currently utilised in the R&E Rehabilitation Cost Calculation Tool. A justification for the rate change by a third party has been included and I confirm that only the rates identified in the above table have been altered in the Rehabilitation Cost Calculation Tool.

General Manager

Signature

Date

DRE Reporting Officer

Signature

Date

APPENDIX C Dendrobium Mine Compliance Report FY16





Dendrobium Mine Compliance Report

A report of compliance against the Development Consent

July 2016

CONDITION OF CONSENT	STATUS	COMMENTS
SCHEDULE 2: ADMINISTRATIVE CONDITIONS		
Obligation to Minimise Harm to the Environment		
1. The Applicant shall implement all reasonable and feasible measures to prevent and/or minimise any harm to the environment that may result from the construction, operation, or rehabilitation of the development.	Compliant	Implementation of and adherence to the Conditions of Consent will achieve this requirement.
Terms of Approval		
 2. The Applicant shall carry out the development generally in accordance with the: (a) Development Application (DA 60-03-2001), EIS and associated submissions to the Dendrobium Underground Coal Mine Project Commission of Inquiry, and in particular its: Primary Submission (the Dendrobium Project, dated 30 July 2001); Submission in Reply (the Dendrobium Project, undated); and Environmental Effects of Subsidence Associated with the Dendrobium Project, prepared by National Environmental Consulting Services and dated August 2001; (b) Modification Application dated 12 February 2002 and supporting information dated 27 January 2002; (c) Modification Application and supporting information dated 14 June 2002; (d) Modification Application and Statement of Environmental Effects for the Dendrobium Coal Sizer, prepared by Olsen Environmental Consulting and dated March 2005; (e) Application for Further Approval of West Cliff Emplacement Area Stage 3, Vol 2 (including Appendices), prepared by Cardno Forbes Rigby and dated July 2007, associated Response to Submissions dated 1 November 2007 and associated Statement of Commitments dated 28 November 2007 (see Appendix 3); (f) Modification Application – Modification of Area 3 Footprint and Review of Conditions of Consent dated 27 November 2007, EA and associated Statement of Commitments (see Appendix 4); and (g) conditions of this consent. 	Compliant	The listed documentation reflects changes to the development as a result of consultation with Authorities and the community. Management Plans and associated documentation reflect these changes and requirements.
3. If there is any inconsistency between the above documents, the most recent document shall prevail to the extent of the inconsistency. However, the conditions of this consent shall prevail to the extent of any inconsistency.	Compliant	Document precedence is applied where required.

CONDITION OF CONSENT	STATUS	COMMENTS
 4. The Applicant shall comply with any reasonable and feasible requirement/s of the Director-General arising from the Department's assessment of: (a) any reports, plans, programs, strategies or correspondence that are submitted in accordance with the conditions of this consent; and (b) the implementation of any actions or measures contained in these reports, plans, programs, strategies or correspondence. 	Compliant	Requirements have been complied with where reasonable and feasible.
Limits on Approval		
 5. Mining operations may take place in the mining area until 31 December 2030. Note: Under this consent, the Applicant is required to rehabilitate the site to the satisfaction of the Director-General and DPI. Consequently this consent will continue to apply in all other respects other than the right to conduct mining operations until the site has been rehabilitated to a satisfactory standard. 	Compliant	Recognised in Environmental Management Strategy.
6 . The Applicant shall not extract more than 5.2 million tonnes of ROM coal a year from the mining area.	Compliant	Less than 5.2 million tonnes are extracted per year. Mining plans and production forecasts are developed on this basis.
7. The Applicant shall only transport coal from the surface facilities by rail.	Compliant	Coal extracted from Dendrobium Mine is only transported via the Kemira Valley rail line.
Staged Submission of Management Plans/Monitoring Programs		
8. With the approval of the Director-General, the Applicant may submit any management plan or monitoring program required by this consent on a progressive basis.	Compliant	Plans required under the consent are submitted as required.
9. The Applicant shall ensure that monitoring programs, management plans and the Environmental Management Strategy, as in existence at the date of modification of consent in November 2008, continue to be implemented (to the	Compliant	Environmental requirements under existing programs, plans and

CONDITION OF CONSENT	STATUS	COMMENTS
satisfaction of the Director-General) until replaced by monitoring programs and management plans approved in accordance with the conditions of this consent.		strategies continue to be implemented pending approval of updated documentation.
Structural Adequacy		
 10. The Applicant shall ensure that all new buildings and structures, and any alterations or additions to existing buildings and structures, are constructed in accordance with the relevant requirements of the BCA. Notes: Under Part 4A of the EP&A Act, the Applicant is required to obtain construction and occupation certificates for the proposed building works. Part 8 of the EP&A Regulation sets out the requirements for the certification of the development. 	Compliant	All work completed by licensed trades.
Demolition		
11 . The Applicant shall ensure that all demolition work is carried out in accordance with <i>Australian Standard AS 2601-2001: The Demolition of Structures</i> , or its latest version.	Compliant	No demolition work has been undertaken during this reporting period.
Operation of Plant and Equipment		
 12. The Applicant shall ensure that all plant and equipment used on site is: (a) maintained in a proper and efficient condition; and (b) operated in a proper and efficient manner. 	Compliant	A maintenance management system (i.e. SAP) is used to ensure that all plant and equipment used on site is maintained in a proper and efficient condition. Operators are trained and assessed as competent. The site entry process ensures that there is a maintenance strategy and operating procedure for equipment before going underground.

CONDITION OF CONSENT	STATUS	COMMENTS
Community Enhancement	517105	
 13. The Applicant shall contribute \$0.03 per tonne of saleable coal production each financial year to fund the provision of significant present and future benefits to local communities directly affected by the development. These funds shall be: (a) administered and expended in accordance with procedures which are to the satisfaction of WCC and the Director-General; (b) provided by 30 September each year over the life of the consent; (c) based on saleable coal production in the previous financial year; and (d) indexed in accordance with the CPI, with April 2005 used as the commencement date for indexation calculations. Any dispute over the operation of this fund shall be referred to the Director-General for resolution. 	Compliant	Payment was made for FY15 in accordance with requirements. Payment for FY16 will be paid within the next quarter.
Costs of Management Measures		
14. The Applicant shall be responsible for the costs of all management measures (including measures to minimise, mitigate, offset or remediate impacts of the development which are not recoverable by a third party through the <i>Mine Subsidence Compensation Act 1961</i> or the <i>Mining Act 1991</i>) including but not limited to remediation of natural features, rehabilitation of ecological systems, the provision of supplementary waters and monitoring of the effectiveness of the works, as determined by the Director-General.	Compliant	Management measures will be undertaken as required and at the cost of Illawarra Coal where not recoverable by a third party.
SCHEDULE 3: SPECIFIC ENVIRONMENTAL COND	DITIONS - M	NING AREA
SUBSIDENCE		
Note: These conditions should be read in conjunction with the Statement of Commitments.		
Watercourse Impact Management		
 The Applicant shall ensure that, as a result of the development: (a) no rock fall occurs at Sandy Creek Waterfall or from its overhang; (b) the structural integrity of the waterfall, its overhang and its pool are not impacted; (c) cracking in Sandy Creek within 30 m of the waterfall is of negligible environmental and hydrological consequence; and (d) negligible diversion of water occurs from the lip of the waterfall to the satisfaction of the Director-General. 	Compliant	A SMP for Area 3a has been approved that meets these requirements.

CONDITION OF CONSENT	STATUS	COMMENTS
 2. The Applicant shall ensure that underground mining operations do not cause subsidence impacts at Sandy Creek and Wongawilli Creek other than "minor impacts" (such as minor fracturing, gas release, iron staining and minor impacts on water flows, water levels and water quality) to the satisfaction of the Director-General. Note: In this condition, "minor impacts" are those defined as minor triggers in Table 23.2 of the draft SMP submitted by the Applicant for Dendrobium Area 3A. 	Compliant	A SMP for Area 3a has been approved that meets these requirements. The SMP for Area 3b also addresses potential impacts on Wongawilli Creek. Longwall panels are aligned to minimise impacts to watercourses.
3. The Applicant shall ensure the development does not result in reduction (other than negligible reduction) in the quality or quantity of surface water or groundwater inflows to Lake Cordeaux or Lake Avon or surface water inflow to the Cordeaux River at its confluence with Wongawilli Creek, to the satisfaction of the Director-General.	Compliant	Potential subsidence impacts are covered in the relevant SMP.
 4. Prior to carrying out any underground mining operations that could cause subsidence in either Area 3A, Area 3B or Area 3C, the Applicant shall prepare a Watercourse Impact Monitoring, Management and Contingency Plan to the satisfaction of the Director-General. Each such Plan must: (a) demonstrate how the subsidence impact limits in conditions 1 - 3 are to be met; (b) include a monitoring program and reporting mechanisms to enable close and ongoing review by the Department and DPI of the subsidence effects and impacts (individual and cumulative) on Wongawilli Creek, Sandy Creek and Sandy Creek Waterfall; (c) include a general monitoring and reporting program addressing surface water levels, water flows, water quality, surface slope and gradient, erodibility, aquatic flora and fauna (including Macquarie Perch, any other threatened aquatic species and their habitats) and ecosystem function; (d) include a management plan for avoiding, minimising, mitigating and remediating impacts on watercourses, which includes a tabular contingency plan (based on the Trigger Action Response Plan structure) focusing on measures for remediating both predicted and unpredicted impacts; (e) address third and higher order streams individually but address first and second order streams collectively; (f) be approved prior to the carrying out of any underground mining operations that could cause subsidence impacts on watercourses in the relevant Area; and (i) be implemented to the satisfaction of the Director-General. <i>Notes:</i> Should review by the Department of reports by the 	Compliant	The Watercourse Impact Monitoring, Management and Contingency Plan has been incorporated into the Area 3B SMP and is also available on the Dendrobium Mine website

CONDITION OF CONSENT	STATUS	COMMENTS
 Applicant under paragraph (b) indicate that subsidence impacts have exceeded or threaten to limits imposed in conditions 1-3, then under condition 4 of Schedule 2 the Director-General may instruct the Applicant to implement reasonable and feasible requirements, which may include to cease mining within the operative longwall, shorten the length of that longwall or shorten the length and/or width of future longwalls. Requirements under paragraphs (a) and (b) in respect of Sandy Creek and Sandy Creek Waterfall relate only to the Watercourse Impact Monitoring, Management and Contingency Plan for Area 3A. 		
Swamp Impact Management		
5. The Applicant shall ensure that subsidence does not cause erosion of the surface or changes in ecosystem functionality of Swamp 15a and that the structural integrity of its controlling rockbar is maintained or restored, to the satisfaction of the Director-General.	Compliant	Subsidence management measures for Swamp 15a are included in the SMP for Area 3a. Changes to the mine plan for Area 3a will result in no mining directly under Swamp 15a.
 6. Prior to carrying out any underground mining operations that could cause subsidence in either Area 3A, Area 3B or Area 3C, the Applicant shall prepare a Swamp Impact Monitoring, Management and Contingency Plan to the satisfaction of the Director-General. Each such Plan must: (a) demonstrate how the subsidence impact limits in condition 5 are to be met; (b) include a monitoring program and reporting mechanisms to enable close and ongoing review by the Department and DPI of the subsidence effects and impacts (individual and cumulative) of each Area 3A longwall on Swamp 15a; (c) include a general monitoring and reporting program addressing surface water levels, near surface groundwater levels, water quality, surface slope and gradient, erodibility, flora and ecosystem function; (d) include a management plan for avoiding, minimising, mitigating and remediating impacts on swamps, which includes a tabular contingency plan (based on the Trigger Action Response Plan structure) focusing on measures for remediating both predicted and unpredicted impacts; (e) address headwater and valley infill swamps separately and address each swamp individually; (f) be prepared in consultation with DECC, SCA and DPI; (g) incorporate means of updating the plan based on experience gained as mining progresses; (h) be approved prior to the carrying out of any underground mining operations that could cause subsidence impacts on 	Compliant	The Swamp Impact Monitoring, Management and Contingency Plan has been incorporated into the Area 3a and 3B SMPs. The Swamp Impact Monitoring, Management and Contingency Plan and the Watercourse Impact Monitoring, Management and Contingency Plan documents were revised to take into account the SMP Approval Conditions and submissions from Agencies. Approval of these plans was granted on the 10/07/2015.

CONDITION OF CONSENT	STATUS	COMMENTS
swamps in the relevant Area; and (i) be implemented to the satisfaction of the Director-General.		
 Notes: Should review by the Department of reports by the Applicant under paragraph (b) indicate that subsidence impacts have exceeded or threaten to exceed limits imposed in condition 5, then under condition 4 of Schedule 2 the Director-General may instruct the Applicant to implement reasonable and feasible requirements, which may include to cease mining within the operative longwall, shorten the length of that longwall or shorten the length and/or width of future longwalls. Requirements under paragraphs (a) and (b) relate only to the Swamp Impact Monitoring, Management and Contingency Plan for Area 3A. 		
Subsidence Management Plans		
 7. Prior to carrying out any underground mining operations that could cause subsidence in either Area 3A, 3B or 3C, the Applicant shall prepare a Subsidence Management Plan (SMP) to the satisfaction of the Director-General and the Director-General of DPI. Each such SMP must: (a) integrate ongoing management of Areas 1 and 2; (b) integrate the Watercourse and Swamp Impact Monitoring, Management and Contingency Plans required under conditions 4 and 6; (c) include monitoring of subsidence effects; (d) include a SCA Assets Protection Plan; (e) include monitoring, management, and contingency plans for all other significant natural features and all significant man made features which may be impacted by subsidence, including: Iandscape (including cliffs and steep slopes); groundwater (see condition 13); terrestrial flora and fauna and ecology (including all threatened species assessed as being likely to be significantly affected by the development and their habitats); Aboriginal and other cultural heritage (see condition 12); and electrical, communications and other infrastructure; (f) be prepared in consultation with DECC, SCA and DPI; (g) be approved prior to the carrying out of any underground mining operations that could cause subsidence in the relevant Area; and (h) be implemented to the satisfaction of the Director-General and the Director-General of DPI. 	Compliant	SMPs that meet these requirements have been and will be submitted as required.

CONDITION OF CONSENT	STATUS	COMMENTS
• The contingency plans required under paragraph (e) must address remediation (as appropriate) and be based on a TARP structure.		
 8. The SMPs prepared under condition 7 for Areas 3B and 3C must: (a) include a mine plan for the relevant Area; (b) include a detailed subsidence impact assessment, clearly setting out all predicted subsidence effects, subsidence impacts and environmental consequences; (c) include a minimum of 2 years of baseline data, collected at appropriate frequency and scale, for all significant natural features; (d) identify and assess the significance of all natural features located within 600 m of the edge of secondary extraction; (e) distinguish between, clearly describe and adequately quantify all subsidence effects, subsidence impacts and environmental consequences; (f) propose limits on subsidence impacts and environmental consequences; (g) be otherwise prepared in accordance with any guidelines for SMPs developed by the Department and/or DPI; (h) be approved prior to the carrying out of any underground mining operations that could cause subsidence in the relevant Area; and (i) be implemented to the satisfaction of the Director-General and the Director-General of DPI. Note: In approving an SMP, the Director-General may impose conditions containing subsidence impact limits (similar to conditions 1- 3 & 5), subsidence management mechanisms (similar to conditions 4 & 6) or other conditions. 	Compliant	The SMPs prepared are in line with this condition.
End of Panel Reporting		
 9. Within 4 months of the completion of each longwall panel, or as otherwise permitted by the Director-General, the Applicant shall: (a) prepare an end-of-panel report: reporting all subsidence effects (both individual and cumulative) for the panel and comparing subsidence effects with predictions; describing in detail all subsidence impacts (both individual and cumulative) for the panel; discussing the environmental consequences for watercourses, swamps, water yield, water quality, aquatic ecology, terrestrial ecology, groundwater, cliffs and steep slopes; and comparing subsidence impacts and environmental consequences with predictions; and (b) submit the report to the Department, DPI, SCA, DECC, DWE and any other relevant agency to the satisfaction of the 	Compliant	End of Panel Reports for Longwalls 6, 7, 8, 9 and 10 have been submitted in accordance with the timing of this condition.

CONDITION OF CONSENT	STATUS	COMMENTS
Director-General.		
 10. The Applicant shall include a comprehensive summary, analysis and discussion of the results of monitoring of subsidence effects, subsidence impacts and environmental consequences in each AEMR. Note: Conditions 9 and 10 apply to Area 2, as well as to Areas 3A, 3B and 3C. 	Compliant	A summary of subsidence effects, impacts and environmental consequences is included in the AEMR.
Subsidence Expert Assessments		
11. The Applicant shall pay the reasonable costs of the Department in engaging independent experts to advise it when it assesses SMPs prepared under condition 7 for Areas 3B and 3C.	N/A	No such request has been received from the Department.
ABORIGINAL HERITAGE		
 12. The SMPs prepared under condition 7 must include an Aboriginal Heritage Plan, which must include a: (a) description of known Aboriginal heritage sites; (b) protocol for the ongoing consultation and involvement of the Aboriginal community in the conservation and management of Aboriginal heritage; (c) description of the measures that would be implemented to protect Aboriginal sites generally, including measures that would be implemented to secure, analyse and record sites at risk of subsidence; (d) description of the measures that would be implemented to protect Aboriginal site 52-2-1646, including: a full recording and assessment of the site's rock art; a more detailed subsidence assessment for the site; measures which seek to avoid any significant impact on the site and any necessary contingency plans to protect the site against collapse or substantial impact on its rock art; and (e) description of the measures that would be implemented if any new Aboriginal objects or skeletal remains are discovered during the development. 	Compliant	The Aboriginal Heritage Plan has been incorporated into the Area 3a and 3b SMPs.
GROUNDWATER MONITORING PROGRAM		
 13. The SMPs prepared under condition 7 must include a Groundwater Monitoring Program, which must include: (a) proposals to develop a detailed regional and local groundwater model, with special reference to flows to and from nearby water storages; (b) detailed baseline data to benchmark the natural variation in 	Compliant	The Groundwater Monitoring Program has been incorporated into the Area 3a and 3b SMPs.

CONDITION OF CONSENT	STATUS	COMMENTS
 groundwater levels, yield and quality; (c) groundwater impact assessment criteria; (d) a program to monitor the impact of the development on: groundwater levels, yield and quality (particularly any potential loss of flow to, or flow from, SCA water storages); coal seam aquifers and overlying aquifers; and groundwater springs and seeps; and (e) consideration of the requirements of the latest version (or 		
subsequent replacement) of SCA's The Design of a Hydrological and Hydrogeological Monitoring Program to Access the Impacts of Longwall Mining in SCA Catchment.		
ENVIRONMENTAL OFFSETS		
 14. The Applicant shall provide suitable offsets for loss of water quality or loss of water flows to SCA storages, clearing and other ground disturbance (including cliff falls) caused by its mining operations and/or surface activities within the mining area, unless otherwise addressed by the conditions of this consent, to the satisfaction of the Director-General. These offsets must: (a) be submitted to the Director-General for approval by 30 April 2009; (b) be prepared in consultation with SCA; (c) provide measures that result in a beneficial effect on water quality, water quantity, aquatic ecosystems and/or ecological integrity of SCA's special areas or water catchments. 	Compliant	This offset was accepted by the SCA 10 February 2009.
SCHEDULE 4: SPECIFIC ENVIRONMENTAL COND FACILITIES	DITIONS - S	URFACE
NOISE		
Noise Impact Assessment Criteria		
1. The Applicant shall ensure that the noise generated at the surface facilities does not exceed the noise impact	Non- Compliant	Noise monitoring is undertaken in

surface facilities does not exceed the noise impact assessment criteria in Table 1 at any residence on privatelyowned land, or on more than 25% of any privately-owned land. The applicable criteria for any residence not listed in Table 1 shall be the criteria applying at the nearest listed residence.

he Non-Compliant Noise monitoring is undertaken in accordance with the approved Noise Management Plan, a summary of results is provided via the Dendrobium Mine AEMR. There were two exceedances of the LAeq, 15 minute noise criteria during the reporting period

at R39a however

			<u>ONSEN</u>	STATUS	COMMENTS	
Table 1: Noise im Dav	pact assessment Evening		Night	Residence		the Mine noise
LAeq(15 min)	LAeq(15 min)	LAeq(15 min)	LA1(1 min)	(as shown in the Noise Monitoring Program)		level remained
42 41	42 41	38 40	48 50	R2 R22		below the dominant
40	40	39	49	R1		
				R9		noise (insects,
40	40	37	47	R15a R3a		birds and bats).
				R5a		
37	35	35	45	R6a&b R39a		
Votes:	30		45	n39a		
affected point situations) wh measuremeni compliance (c Industrial Noi To determine the dwelling f, impractical, D Noise Policy). The noise em o wind spee o up to 3° C. drainage These limits c	within the resider ere the dwelling is of noise from the ee Chapter 11 of e Policy shall als compliance with t açade. Where it cc ECC may accept ission limits identit diso fu pt o 3 m's 100 m temperatuu fow wind at 10 o not apply if the .	titial boundary, or s more than 30 m development is i the NSW Industri to be applied to th the L ATC initiate limit an be demonstrat alternative means: died in the above at 10 metres abov re inversion stren etres above grout Applicant has an	at the most affected p etres from the bounds mpractical. DECC ma (a) Noise Policy). The e measured noise lev t, noise from the deve d that direct measures s of determining comp table apply under mel ve ground level; y und reveivers, p d level for those rece agreement with the re	elepment is to be measured at the most point within 30 metres of a dwelling (rural ary. Where it can be demonstrated that direct ny accept alternative means of determining modification factors in Section 4 of the NSW els where applicable. Jopment is to be measured at 1 metre from ement of noise from the development is pliance (see Chapter 11 of the NSW Industrial teorological conditions of: plus a 2 m/s source-oreceiver component vivers where applicable. elevant owner's of these residences to rtment and DECC in writing of the terms of this		
and Acc	quisition	Criteria				
elevant c wned lar	riteria in nd or on r	Table 2 a more tha	at any resic n 25% of a	e facilities exceeds the dence on privately- ny privately-owned land, written request for	N/A	landholders for land
elevant c wned lar ne Applic cquisitio vith the p pplicable e the crit	riteria in ad or on r cant shall n from th rocedure criteria a criteria appl quisition criteria d	Table 2 a more that , upon re e landow is in cond for any re lying at th	at any resid n 25% of a ceiving a w mer, acquir ditions 8 - 1 esidence no ne nearest	dence on privately- ny privately-owned land, vritten request for re the land in accordance 0 of schedule 4. The ot listed in Table 2 shall listed residence.	N/A	been received from landholders for land acquisition due to noise.
elevant c wned lar ne Applic cquisitio vith the p pplicable re the crit	riteria in ad or on r cant shall n from the rocedure e criteria f ceria appl	Table 2 a more that , upon re e landow s in cond for any re lying at th ab(A) wening	at any resid n 25% of a ceiving a w mer, acquir ditions 8 - 1 esidence no ne nearest	dence on privately- ny privately-owned land, written request for re the land in accordance 0 of schedule 4. The ot listed in Table 2 shall listed residence.	N/A	been received from landholders for land acquisition due to
elevant o wned lar ne Applic cquisitio vith the p pplicable the the crit rable 2: Noise ac Day Lagets mir 47	riteria in ad or on r cant shall n from the rocedure e criteria f ceria appl	Table 2 a more that , upon re e landow s in cond for any re lying at th dB(A) vening eq(15 min) 47	at any resid n 25% of a ceeiving a w vner, acquir ditions 8 - 1 esidence no ne nearest <u>Night</u> <u>LAeg(15 min)</u> 43	dence on privately- ny privately-owned land, written request for re the land in accordance 0 of schedule 4. The ot listed in Table 2 shall listed residence.	N/A	been received from landholders for land acquisition due to
elevant o wned lar ne Applic cquisitio vith the p pplicable re the crit rable 2: Noise ac Day Laeg(15 mir 47 46	riteria in ad or on r cant shall n from the rocedure e criteria f ceria appl	Table 2 a more that , upon re e landow s in cond for any re lying at th dB(A) vening eq(15 min) 47 46	at any resid n 25% of a ceeiving a w mer, acquir ditions 8 - 1 esidence no ne nearest <u>Night</u> <u>Laeg(15 min)</u> 43 45	dence on privately- ny privately-owned land, written request for re the land in accordance 0 of schedule 4. The ot listed in Table 2 shall listed residence.	N/A	been received from landholders for land acquisition due to
elevant o wned lar ne Applic cquisitio vith the p pplicable the the crit rable 2: Noise ac Day Lagets mir 47	riteria in ad or on r cant shall n from the rocedure e criteria f ceria appl	Table 2 a more that , upon re e landow s in cond for any re lying at th dB(A) vening eq(15 min) 47	at any resid n 25% of a ceeiving a w vner, acquir ditions 8 - 1 esidence no ne nearest <u>Night</u> <u>LAeg(15 min)</u> 43	dence on privately- ny privately-owned land, written request for re the land in accordance 0 of schedule 4. The ot listed in Table 2 shall listed residence.	N/A	been received from landholders for land acquisition due to
elevant of wined lar ne Applic cquisitio vith the p pplicable re the crit rable 2: Noise ac Day Laeg(15 mir 47 46 45	riteria in ad or on r cant shall n from the rocedure e criteria f ceria appl	Table 2 a more that , upon re e landow s in cond for any re lying at th <i>dB(A)</i> vening eq(15 min) 47 46 45	at any resid n 25% of a ceeiving a w yner, acquir ditions 8 - 1 esidence no ne nearest <u>Night</u> 43 45 44	dence on privately- ny privately-owned land, written request for re the land in accordance 0 of schedule 4. The ot listed in Table 2 shall listed residence. Residence (as shown in the Noise Monitoring Program) R2 R22 R1 R9 R15a	N/A	been received from landholders for land acquisition due to
elevant o wned lar ne Applic cquisitio vith the p pplicable re the crit rable 2: Noise ac Day Laeg(15 mir 47 46	riteria in ad or on r cant shall n from the rocedure e criteria f ceria appl	Table 2 a more that , upon re e landow s in cond for any re lying at th dB(A) vening eq(15 min) 47 46	at any resid n 25% of a ceeiving a w mer, acquir ditions 8 - 1 esidence no ne nearest <u>Night</u> <u>Laeg(15 min)</u> 43 45	dence on privately- ny privately-owned land, vritten request for re the land in accordance 0 of schedule 4. The ot listed in Table 2 shall listed residence. Residence (as shown in the Noise Monitoring Program) R2 R2 R1 R9 R15a R3a	N/A	been received from landholders for land acquisition due to
elevant of wined lar ne Applic cquisitio vith the p pplicable re the crit rable 2: Noise ac Day Laeg(15 mir 47 46 45	riteria in ad or on r cant shall n from the rocedure e criteria f ceria appl	Table 2 a more that , upon re e landow s in cond for any re lying at th <i>dB(A)</i> vening eq(15 min) 47 46 45	at any resid n 25% of a ceeiving a w yner, acquir ditions 8 - 1 esidence no ne nearest <u>Night</u> 43 45 44	dence on privately- ny privately-owned land, written request for re the land in accordance 0 of schedule 4. The ot listed in Table 2 shall listed residence. Residence (as shown in the Noise Monitoring Program) R2 R22 R1 R9 R15a		been received from landholders for land acquisition due to
elevant of wined lar ne Applic cquisitio vith the p pplicable re the crit rable 2: Noise ac Day Laeg(15 mir 47 46 45	riteria in ad or on r cant shall n from the rocedure e criteria f ceria appl	Table 2 a more that , upon re e landow s in cond for any re lying at th <i>dB(A)</i> vening eq(15 min) 47 46 45	at any resid n 25% of a ceeiving a w yner, acquir ditions 8 - 1 esidence no ne nearest <u>Night</u> 43 45 44	dence on privately- ny privately-owned land, written request for re the land in accordance 0 of schedule 4. The ot listed in Table 2 shall listed residence.		been received from landholders for land acquisition due to
elevant of wined lar ne Applic cquisitio vith the p pplicable the critic table 2: Noise ad Day Laeg(15 min 47 46 45 45 45	riteria in nd or on r cant shall n from the rocedure e criteria a guisition criteria a p	Table 2 a more that , upon re e landow sin cond for any re lying at th dB(A) vening eqt(5 min) 46 45 40	at any resid n 25% of a ceiving a w yner, acquir ditions 8 - 1 esidence no ne nearest <u>Night</u> 43 45 44 42 40	dence on privately- ny privately-owned land, vritten request for re the land in accordance 0 of schedule 4. The ot listed in Table 2 shall listed residence.	N/A	been received from landholders for land acquisition due to
elevant of wined lar ne Applic cquisitio vith the p pplicable the critic table 2: Noise ad Day Laeg(15 min 47 46 45 45 45	riteria in nd or on r cant shall n from the rocedure e criteria a guisition criteria a p	Table 2 a more that , upon re e landow sin cond for any re lying at th dB(A) vening eqt(5 min) 46 45 40	at any resid n 25% of a ceiving a w yner, acquir ditions 8 - 1 esidence no ne nearest <u>Night</u> 43 45 44 42 40	dence on privately- ny privately-owned land, written request for re the land in accordance 0 of schedule 4. The ot listed in Table 2 shall listed residence.		been received from landholders for land acquisition due to
elevant of wined lar ne Applic cquisitio vith the p pplicable the the crit rable 2: Noise at Day Laeg(15 mit 47 46 45 45 45 42	riteria in nd or on r eant shall n from the rocedure e criteria a criteria appl quisition criteria d reria appl rated by the deve	Table 2 a more that , upon re e landow e landow is in condition for any re lying at the dB(A) vening eqi(15 min) 46 45 40	at any resid n 25% of a ceiving a w yner, acquir ditions 8 - 1 esidence no ne nearest <u>Night</u> 43 45 44 42 40	dence on privately- ny privately-owned land, written request for re the land in accordance 0 of schedule 4. The ot listed in Table 2 shall listed residence. (as shown in the Noise Monitoring Program) R2 R2 R1 R9 R15a R3a R5a R6a&b R39a ance with the notes to Table 1.		been received from landholders for land acquisition due to

CONDITION O		STATUS	COMMENTS	
	Measurement Conditions	-		
Operating Condition	weasurement conditions	Criteria L _{A1(I min)}		
Locomotive at idle, with compressor radiator fans and air conditioning operating at	Stationary 15 metre contour	70 dB(A)	+	
maximum load All other throttle settings under self-load, with compressor radiator fans and air conditioning	Stationary 15 metre contour	87 dB(A) 95 dB(Lin)		
operating at maximum load All service conditions	Up to 50 kilometres per hour, 15 metres from centreline of rail track	87 dB(A) 95 dB(Lin) Must be non-tonal Linear noise levels must not exceed A-weighted noise levels by more than 15 dB		
Note: All measured noise levels must be unless otherwise specified.	assessed for tonality in accordance with t	he NSW Industrial Noise Policy,		
Continuous Improve	ement			
 4. The Applicant shall (a) continue to investight by the development (invision impacts from line and maximum non disturbance); (b) continue to implement practice noise mitigatities (c) report on these investigation of the Direct satisfaction of the Direct satisfactisfaction of the Direct satisfaction of the	gate ways to reduce t ncluding off-site road in the operation of the ise levels which may ment all reasonable an ion measures; and vestigations and the in e measures in the AEM	Compliant	Details regarding noise investigations undertaken and mitigation improvements implemented will be detailed in the AEMR.	
5. The Applicant shall wheel squeal, brake s arising from rail haula	equeal and locomotive	wheel slippage	Compliant	Details regarding noise investigations undertaken and mitigation improvements implemented are detailed in the AEMR.
Additional Noise Mit	igation Measures			
6. Upon receiving a w residence where subs noise generated by th the noise impact asse a negotiated noise ag implement reasonable (such as double glazin any residence on the If within 3 months of r the Applicant and the measures to be imple implementation of the the matter to the Direct	sequent noise monitor le development is 3 dl essment criteria in Tab reement is in place) th e and feasible noise m ng, insulation and/or a land in consultation w eceiving this request f landowner cannot ag mented, or there is a se measures, then eit	ing shows the B(A) greater than ble 1 (except where he Applicant shall hitigation measures air conditioning) at with the landowner, from the landowner, ree on the dispute about the ther party may refer	N/A	No requests for noise mitigation have been received.

CONDITION OF CONSENT	STATUS	COMMENTS
Monitoring		
 7. The Applicant shall prepare and implement a Noise Monitoring Program for the development to the satisfaction of the Director-General. This program must: (a) be submitted to the Director-General for approval by 30 April 2009; (b) be prepared in consultation with DECC; (c) provide for quarterly attended noise monitoring and real- time noise monitoring (where appropriate) to monitor the performance of the development, especially in residential areas close to the surface facilities; and (d) include a noise monitoring protocol for evaluating compliance with the noise impact and land acquisition criteria in this consent. Note: This program must expressly monitor the modifying factors referred to in the NSW Industrial Noise Policy (such as intermittency, tonality and low frequency) 	Compliant	An approved noise management plan is in place.
BLASTING AND VIBRATION		
8. The Applicant is not permitted to undertake blasting operations at the surface facilities except with the prior written approval of DECC and subject to any conditions which DECC may impose.	Compliant	No blasting activities were undertaken.
AIR QUALITY		
Impact Assessment Criteria		
9. The Applicant shall ensure that dust generated by the development does not cause additional exceedances of the criteria listed in Tables 4 to 6 at any residence on privately-owned land, or on more than 25 percent of any privately-owned land.	Non - Compliant	Air quality monitoring is undertaken on a monthly basis. Details are provided in the AEMR. One exceedance at Point 21.

		CONSENT			STATUS	COMMENTS
	ot assessment criteria for j utant	Averaging period	Criterion			
Total suspended particulate (TSP) matter		Annual	90 μg/m³			
Particulate matter < 10 μm (PM ₁₀)		Annual	30 μg/m³			
Table 5: Short term impa	ct assessment criteria for	particulate matter				
Pollutant		Averaging period	Criterion			
Particulate matter < 10 μ m (PM ₁₀)		24 hour	50 μg/m ³			
Table 6: Long term impac	ct assessment criteria for i					
Pollutant	Averaging period	Maximum increase in deposited dust level	Maximum total deposited dust level			
Deposited dust	Annual	2 g/m ² /month	4 g/m ² /month			
lonitoring) Analysis of Amolent Air	Determination of Particulates - I	reposited matter - Gravimetino			
 0. The Applicant shall prepare and implement an Air Quality Monitoring Program for the surface facilities (excepting those urface facilities within the mining area) to the satisfaction of the Director-General. This program must: a) be submitted to the Director-General for approval by 30 April 2009; a) be prepared in consultation with DECC; b) use a combination of high volume samplers and dust eposition gauges to monitor the performance f the development; and c) include an air quality monitoring protocol for evaluating ompliance with the air quality impact assessment criteria in his consent. 			those ion of y 30 st :ing	Compliant	An Air Quality Management Plan was submitted to the DoP by 30 Apr 2009 to meet thes requirements and was approved in September 2009. AQMP was updated and resubmitted in March 2012.	
IETEOR	DLOGICA		RING			
1. During the development, the Applicant shall ensure that it as a suitable meteorological station in the vicinity of the site nat is generally in accordance with the requirements in the juideline <i>Approved Methods for Sampling of Air Pollutants in New South Wales</i> .				ne site n the	Compliant	A meteorological station is situated at the Kemira Valley Coal Loading Facility, Dendrobium Pit Top and Ventilatio Shaft 2/3 site.
VATER M	ANAGE	IENT				
ischarges						
 12. The Applicant shall ensure all surface water discharges rom the surface facilities: a) meet the relevant ANZECC water quality objectives for the protection of aquatic ecosystems and water quality of existing eceiving waters; and b) comply with the discharge limits (both volume and quality) set for the development in any EPL. 					Compliant	Water quality monitoring is undertaken as per the Water Management Plan Water quality was within EPL

CONDITION OF CONSENT	STATUS	COMMENTS
		requirements.
Water Management Plan		
 13. The Applicant shall prepare and implement a Water Management Plan for the surface facilities to the satisfaction of the Director-General. This plan must: (a) be submitted to the Director-General for approval by 30 April 2009; (b) be prepared in consultation with DECC, SCA and DWE by suitably qualified expert/s whose appointment/s have been approved by the Director-General; and (c) include a: Site Water Balance; Erosion and Sediment Control Plan; Surface Water Monitoring Program; and Surface and Ground Water Response Plan. 	Compliant	An approved Water Management Plan is in place.
Site Water Balance		
 14. The Site Water Balance must: (a) include details of: sources and security of water supply; water use on site; water intercepted by mining operations; water management on site; off-site water transfers and water stored or disposed of underground; reporting procedures; and (b) describe measures to minimise water use by the development. 	Compliant	The Site Water Balance has been incorporated in the Water Management Plan to meet these requirements.
Erosion and Sediment Control		
 15. The Erosion and Sediment Control Plan must: (a) be consistent with the requirements of the Managing Urban Stormwater: Soils and Construction Manual (Landcom 2004, or its latest version); (b) identify activities that could cause soil erosion and generate sediment; (c) describe measures to minimise soil erosion and the potential for transport of sediment to downstream waters; (d) describe the location, function, and capacity of erosion and sediment control structures; and (e) describe what measures would be implemented to monitor and maintain the structures over time. 	Compliant	The Erosion and Sediment Control Plan has been incorporated in the Water Management Plan (refer to Element II) to meet these requirements.
Surface Water Monitoring Program		
16. The Surface Water Monitoring Plan must include:	Compliant	The Surface Water

CONDITION OF CONSENT	STATUS	COMMENTS
 (a) baseline data on surface water flows and quality in streams and other waterbodies that have been or could be affected by the surface facilities; (b) surface water quality and stream health assessment criteria, including trigger levels for investigating any potentially adverse surface water impacts; (c) a program to monitor the impact of the surface facilities on surface water flows and quality, stream health and channel stability; and (d) procedures for reporting the results of this monitoring. 		Monitoring Plan has been incorporated in the Water Management Plan to meet these requirements. A summary of the results from the monitoring program is provided in the Dendrobium Mine AEMR.
Surface and Ground Water Response Plan		
 17. The Surface and Ground Water Response Plan must describe what measures and/or procedures would be implemented to: (a) respond to any exceedances of the surface water, stream health, and groundwater assessment criteria; and (b) mitigate and/or offset any adverse impacts on groundwater dependent ecosystems, aquatic ecosystems or riparian vegetation. 	Compliant	The Surface and Ground Water Response Plan has been incorporated in the Water Management Plan to meet these requirements.
LANDSCAPE MANAGEMENT		
Rehabilitation		
18. The Applicant shall rehabilitate the surface facilities sites to the satisfaction of DPI. For rehabilitation works within the Metropolitan Special Area, the Applicant shall also ensure that these works are carried out to the satisfaction of SCA.	Compliant	A Conceptual Site Closure Plan has been developed. Closure and/or rehabilitation activities, when undertaken, will meet the requirements of the relevant regulatory agencies including I&I NSW. Rehabilitation undertaken during each financial year is reported annually in the Dendrobium Mine AEMR which is submitted to I&I NSW.
Landscape Management Plan		
19. The Applicant shall prepare and implement a Landscape Management Plan for the surface facilities to the satisfaction of the Director-General and the Director-General of DPI. This	Compliant	An approved Landscape Management Plan

CONDITION OF CONSENT	STATUS	COMMENTS
 plan must: (a) be submitted for approval by 30 April 2009; (b) be prepared by suitably qualified expert/s whose appointment/s have been endorsed by the Director-General; (c) be prepared in consultation with DECC and SCA; and (d) include a: Rehabilitation Management Plan; and Mine Closure Plan. Note: The Mine Closure Plan may be submitted at a date agreed by the Director-General, provided that this date is at least 2 years prior to the planned cessation of mining at the site. 		is in place.
Rehabilitation Management Plan		
 20. The Rehabilitation Management Plan must include: (a) the rehabilitation objectives for the surface facilities sites; (b) a general description of the short, medium and long term measures that would be implemented to rehabilitate these sites; (c) performance and completion criteria for the rehabilitation of these sites; (d) a description of how the performance of the rehabilitation works would be monitored over time to achieve the stated objectives and against the relevant performance and completion criteria; (e) any measures necessary to ensure that abandoned mine workings do not impact on stored waters or dams; and (f) details of who is responsible for monitoring, reviewing and implementing the plan. 	Compliant	The Rehabilitation Management Plan has been incorporated in the Landscape Management Plan.
Mine Closure Plan		
 21. The Mine Closure Plan must: (a) be prepared in consultation with the affected councils and CCC; (b) define the objectives and criteria for mine closure; (c) investigate options for the future use of the surface facilities sites; (d) include the proposed management and use of any heritage-listed buildings; (e) investigate ways to minimise the adverse socio-economic effects associated with mine closure, including reduction in local and regional employment; (f) describe the measures that would be implemented to minimise or manage the on-going environmental effects of the development; and (g) describe how the performance of these measures would be monitored over time. 	Compliant	A summary of the Mine Closure Plan was provided in the Landscape Management Plan. A Conceptual Site Closure Plan (as a separate document) has been developed that generally meets these requirements and all requirements will be met closer to mine closure. Site Closure is not

CONDITION OF CONSENT	STATUS	COMMENTS
		planned within the next two years.
Bushfire Management Plan		
22. The Applicant shall prepare and implement a Bushfire Management Plan for the site, with particular reference to the mining area, in consultation with SCA and to the satisfaction of the Rural Fire Service.	Compliant	An approved Bushfire Management Plan is in place.
TRANSPORT		
Rail Transport of Coal		
 23. The Applicant shall ensure that trains do not travel on the Kemira Valley rail line: (a) between 12 midnight and 6 am, until 29 April 2010; and (b) between 11 pm and 6 am, from 30 April 2010 unless written approval is obtained from DECC for emergency use of the rail line. 	Compliant	The rail curfew is adhered to.
 24. The Applicant shall record the: (a) date and time of each train movement on the Kemira Valley rail line; and (b) amount of coal transported from the KVCLF each year and include a comprehensive summary and discussion of the results of this monitoring in each AEMR. 	Compliant	This data is recorded via the Logistics KPI Report and also on Pacific National Run Sheets. The data is summarised and reported in the Dendrobium Mine AEMR.
Road Transport		
 25. The Applicant shall prepare and implement a Traffic Management Plan for the development to the satisfaction of the Director-General. This plan must: (a) be submitted to the Director-General for approval by 30 April 2009; (b) be prepared in consultation with the WCC, Mt Kembla Primary School and the CCC; (c) include traffic control measures for truck movements through residential areas, including Stones Road and its intersection with Cordeaux Road; (d) provide that mine shift changeover times and deliveries by heavy vehicle to the pit top facilities and KVCLF do not conflict with pick-up and drop-off times for Mt Kembla Primary School students; (e) provide heavy vehicle speed limits; (f) include a Driver's Code of Conduct to be applied to the applicant's employees and contractors working at the development and measures for the enforcement of this code; 	Compliant	An approved Traffic Management Plan is in place

CONDITION OF CONSENT	STATUS	COMMENTS
and (g) include procedures for regular monitoring of compliance with this plan.		
Road Maintenance		
26. The Applicant shall enter into an agreement with SCA, to the satisfaction of the Director-General, to share the reasonable costs of maintenance of all access roads, bridges and creek crossings located on land controlled by SCA and used by the Applicant.	Compliant	An agreement has been developed with the SCA.
27. The Applicant shall establish an agreement with WCC to share the reasonable costs of maintenance of Stones Road for the life of the development. Prior to decommissioning of the mine, Stones Road must be inspected, to the satisfaction of WCC, and the road restored by the Applicant to a standard not less than its condition prior to the development's approval. If roadworks are not carried out by the Applicant within one month of being informed by WCC that these works are required under the maintenance agreement, WCC shall be entitled to carry out such maintenance work at the Applicant's cost. Any dispute over implementation of this condition.	Compliant	A Maintenance Agreement for Stones Road is in place with WCC - the agreement has been signed by both WCC and Illawarra Coal. Dated 18th May 2011
VISUAL		
Visual Amenity		
28. The Applicant shall minimise the visual impacts of the surface facilities to the satisfaction of the Director-General.	Compliant	A vegetative screen is maintained around the operation. There have been no complaints received regarding visual amenity. No further work is required unless ordered by the Director-General;
Lighting Emissions		
 29. The Applicant shall: (a) ensure that all external lighting associated with the surface facilities complies with Australian Standard AS4282 (INT) 1995 – Control of Obtrusive Effects of Outdoor Lighting; (b) take all practicable measures to mitigate off-site lighting impacts from the surface facilities; (c) ensure that light emitted from headlights of locomotives operating on the Kemira Valley rail line are screened from 	Compliant	An approved Lighting Management Plan is in place. A Lighting Assessment was undertaken in 2008.

CONDITION OF CONSENT	STATUS	COMMENTS
residences; and (d) report on the effectiveness of lighting emission controls in the AEMR to the satisfaction of the Director-General.		
WASTE		
 30. The Applicant shall: (a) monitor the amount of waste generated by the development; (b) investigate ways to reuse, recycle, or minimise this waste; (c) implement reasonable and feasible measures to minimise this waste; and (d) report on waste management and minimisation in the AEMR to the satisfaction of the Director-General. 	Compliant	A summary of waste management activities associated with Dendrobium Mine is reported via the AEMR.
SCHEDULE 5: SPECIFIC ENVIRONMENTAL CONE COMPONENTS	DITIONS - OT	
COAL WASHERY		
Hot Gas Exhaust Stack Discharges		
 The Applicant shall: (a) ensure that the concentration of pollutants discharged from the coal dryer hot gas exhaust complies with discharge limits set for the development in any EPL; (b) regularly monitor the concentration of pollutants discharged from the coal dryer hot gas exhaust; and (c) report on waste management and minimisation in the AEMR to the satisfaction of the Director-General. 	N/A	The Coal Dryer is not in operation.
Fuel Source		
2. The Applicant shall ensure the coal drying plant only uses blast furnace offgas or natural gas as fuel for the drier.	N/A	The Coal Dryer is not in operation.
WEST CLIFF COAL WASH EMPLACEMENT		
Coal Washery Reject		
 3. The Applicant shall: (a) monitor the amount of coal washery reject emplaced in the West Cliff Coal Wash Emplacement; (b) investigate ways to reduce emplacement of coal washery reject at West Cliff, including beneficial use or improved disposal options; and 	N/A	Project Approval has been granted under Part 3a and as such takes precedence. Refer to Schedule 5:

CONDITION OF CONSENT	STATUS	COMMENTS
(c) report on these matters in the West Cliff AEMR to the satisfaction of the Director-General.		Condition 8 These requirements are reported in the BSO AEMR.
Pollution Reduction Program		
 4. The Applicant shall develop with DECC a new Pollution Reduction Program (PRP) to be incorporated into the West Cliff Colliery's EPL. Subject to the satisfaction of DECC, the PRP shall: (a) include investigation, trial and implementation of appropriate strategies, technologies or works to achieve agreed water quality discharge criteria for licensed discharges from the West Cliff Colliery site with particular reference to salinity; and (b) cover a period of not less than five years. 	N/A	Project Approval has been granted under Part 3a and as such takes precedence. Refer to Schedule 5: Condition 8 PRP10 has been incorporated into EPL2504. Stage 1 of the PRP was submitted to DECCW on the 30 March 2010, additional correspondence regarding Stage 2 of the PRP was submitted to DECCW in May/June 2011.
Water Quality Monitoring Program		
5. The Applicant shall review its water quality monitoring program for the West Cliff Mine in consultation with DECC and DWE and to the satisfaction of the Director-General.	N/A	Project Approval has been granted under Part 3a and as such takes precedence. Refer to Schedule 5: Condition 8 As part of the stage 3 emplacement environmental assessment the water quality monitoring program was reviewed and submitted.
Brennans Creek Diversion Bypass Rehabilitation Plan		
		Project Approval

CONDITION OF CONSENT	STATUS	COMMENTS
6. The Applicant shall, by 30 June 2009, develop a Brennans Creek Diversion Bypass Rehabilitation Plan in consultation with DECC, DWE and DPI and to the satisfaction of the Director-General.	Compliant	has been granted under Part 3a and as such takes precedence. Refer to Schedule 5: Condition 8 Brennans Creek Diversion Bypass Rehabilitation Plan submitted to DoP in December 2008. Plan was approved on 9 September 2009.
General Management of the Emplacement		
7. Subject to condition 2 of schedule 2 and conditions 3- 6 above, the Applicant shall monitor and manage the West Cliff Coal Wash Emplacement as part of the Environmental Management Plan for the West Cliff Mine. Monitoring and management of the Emplacement shall be reported within the West Cliff AEMR, rather than the AEMR for this development.	Compliant	Project Approval has been granted under Part 3a and as such takes precedence. Refer to Schedule 5: Condition 8 <i>Emplacement</i> operations are managed in accordance with the West Cliff <i>Emplacement</i> Management Plan. Details of the emplacement operations, including the rehabilitation aspects, are included in the BSO AEMR.
8. All references in this consent (including conditions 3 – 7 of this schedule and Appendix 3) that have direct application to the West Cliff Coal Wash Emplacement shall cease to have force and effect subsequent to the grant of any project approval under Part 3A of the Environmental Planning & Assessment Act 1979 which includes the West Cliff Colliery and the West Cliff Coal Wash Emplacement Area.	Compliant	Project approval under Part 3A been provided.
SCHEDULE 6: SPECIFIC ENVIRONMENTAL COND	ITIONS – EX	(TENDED SITE

CONDITION OF CONSENT	STATUS	COMMENTS
GREENHOUSE GASES & ENERGY EFFICIENCY		
 The Applicant shall prepare and implement a Greenhouse and Energy Efficiency Plan for the development. This plan must: (a) be prepared in consultation with DECC and generally in accordance with the Guidelines for Energy Savings Action Plans (DEUS 2005, or its latest version); (b) be submitted to the Director-General by 30 April 2009 for approval; (c) include a program to monitor greenhouse gas emissions and energy use generated by the development; (d) include a framework for investigating and implementing measures to reduce greenhouse gas emissions and energy use at the development; (e) include a research program to inform the continuous improvement of the greenhouse gas minimisation measures at the development; (f) describe how the performance of these measures would be monitored over time; and (g) report on the development's greenhouse gas emissions and minimisation measures in the AEMR to the satisfaction of the Director-General. Note: The Applicant may consider the Dendrobium Mine's greenhouse gas minimisation measures across its Southern Coalfield mines and related operations. 	Compliant	The following documents were originally submitted to the DoP by 30 April 2009 to meet these requirements and approved in December 2009: Illawarra Coal Greenhouse Gas and Energy Management Plan Dendrobium Mine GHG and Energy Efficiency Plan Dendrobium Coal Preparation Plant GHG and Energy Efficiency Plan West Cliff Coal Wash Emplacement GHG and Energy Efficiency Plan These plans have been updated and resubmitted in 2012 and approved.
2. The Applicant shall implement all reasonable and feasible measures to minimise the greenhouse gas emissions from the development to the satisfaction of the Director-General.	Compliant	Measures being undertaken are reported in the AEMR.
SCHEDULE 7: ADDITIONAL PROCEDURES FOR A		AND NOISE
NOTIFICATION OF LANDOWNERS		
1. If the results of monitoring required in Schedule 4 identify	Compliant	Results are

1. If the results of monitoring required in Schedule 4 identify
that the impacts generated by the development are greater
than the relevant impact assessment criteria in Schedule 4,Compliant

reported in the AEMR which is

CONDITION OF CONSENT	STATUS	COMMENTS
except where this is predicted in the documents listed in condition 2 of schedule 2 or where a negotiated agreement has been entered into in relation to that impact, then the Applicant shall notify the Director-General and the affected landowners and/or existing or future tenants (including tenants of mine-owned properties) accordingly, and provide quarterly monitoring results to each of these parties until the results show that the development is complying with the criteria in Schedule 4.		publicly available on the web site. Quarterly monitoring results are provided on the BHP Billiton web site.
INDEPENDENT REVIEW		
 2. If a landowner considers the development to be exceeding the impact assessment criteria in schedule 4, except where this is predicted in the EA, then he/she may ask the Director-General in writing for an independent review of the impacts of the development on his/her land. If the Director-General is satisfied that an independent review is warranted, the Applicant shall within 2 months of the Director-General's decision: (a) consult with the landowner to determine his/her concerns; (b) commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Director-General, to conduct monitoring on the land, to: determine whether the development is complying with the relevant impact assessment criteria in schedule 4; and identify the source(s) and scale of any impact on the land, and the development's contribution to this impact; and (c) give the Director-General and landowner a copy of the independent review. 	N/A	No requests have been received by landowners.
3. If the independent review determines that the development is complying with the relevant impact assessment criteria in schedule 4, then the Applicant may discontinue the independent review with the approval of the Director-General. If the landowner disputes the results of the independent review then either the Applicant or the landowner may refer the matter to the Director-General for resolution. Where matters referred to the Director-General under this condition cannot be resolved by the Director-General within 28 days, the Director- General shall refer the matter to an Independent Dispute Resolution Process.	N/A	No requests have been received by landowners.
 4. If the independent review determines that the development is not complying with the relevant impact assessment criteria in Schedule 4, and that the development is primarily responsible for this non compliance, then the Applicant shall: (a) take all reasonable and feasible measures, in consultation with the landowner, to ensure that the development complies 	N/A	No requests have been received by landowners.

CONDITION OF CONSENT	STATUS	COMMENTS
with the relevant criteria and conduct further monitoring to determine whether these measures ensure compliance; or (b) secure a written agreement with the landowner to allow exceedances of the relevant criteria; or (c) offer to acquire all or part of the landowner's land in accordance with the procedures in conditions 6-8 below to the satisfaction of the Director-General.		
5. If further monitoring under condition 4(a) determines that the development is complying with the relevant impact assessment criteria, then the Applicant may discontinue the independent review with the approval of the Director-General. If further monitoring under condition 4(a) determines that measures implemented under that condition have not achieved compliance with the impact assessment criteria in schedule 4, and the Applicant cannot secure a written agreement with the landowner under condition 4(b) to allow these exceedances, then the Applicant shall, upon receiving a written request from the landowner, acquire all or part of the landowner's land in accordance with the procedures in conditions 6-8 below.	N/A	No requests have been received by landowners.

 6. Within 3 months of receiving a written request from a landowner with acquisition rights, the Applicant shall make a binding written offer to the landowner based on: (a) the current market value of the landowner's interest in the property at the date of this written request, as if the property was unaffected by the development the subject of the development application, having regard to the: existing and permissible use of the land, in accordance with the applicable planning instruments at the date of the written request; and presence of improvements on the property and/or any approved building or structure which has been physically commenced at the date of the landowner's written request, and is due to be completed subsequent to that date, but excluding any improvements that have resulted from the implementation of the 'additional noise mitigation measures' in condition 6 of schedule 4; (b) the reasonable costs associated with: relocating within the local government areas of the affected Councils, or to any other local government area determined by the Director-General; obtaining legal advice and expert advice for determining the acquisition price of the land, and the 	N/A	No requests have been received by landowners.

terms upon which it is required; and		
(c) reasonable compensation for any disturbance caused by		
the land acquisition process.		
If, within 28 days of the Applicant making this offer, the		
Applicant and landowner cannot agree on the acquisition price		
of the land and/or the terms upon which the land is to be		
acquired, then either party may refer the matter to the		
Director-General for resolution. Upon receiving such a referral, the Director-General shall request the President of the NSW		
Division of the Australian Property Institute (the API) to appoint		
a qualified independent valuer to:		
 consider submissions from both parties; 		
 establish a fair market valuation for the land and 		
determine reasonable costs and compensation for the		
acquisition, in accordance with paragraphs (a)-(c)		
above and any guidance or guidelines that the		
Director-General may prepare relating to this		
condition; and		
 propose any appropriate fair and reasonable terms of acquisition 		
acquisition.		
The appointed valuer is to provide a full report and explanation of their valuation, determinations and proposed terms of		
acquisition to the Director-General, the Applicant and the		
landowner. The Director-General shall consider the report and		
decide whether the valuation, determinations and any		
proposed terms of acquisition are fair and reasonable and		
advise the parties accordingly. Within 14 days of receiving the		
Director-General's decision that the independent valuer's		
report is fair and reasonable, the Applicant shall make a		
written offer to purchase the land at a price and according to		
terms not less than set out in the independent valuer's report. If the Director-General is of the opinion that the valuation		
and/or determination is not fair and/or reasonable, they shall		
give notice to the parties that a further independent valuation		
and determination will be undertaken in accordance with this		
condition and duly request a further appointment by the API.		
If the landowner refuses to accept within 6 months a written		
offer duly made by the Applicant under this condition, then the		
Applicant's obligations to acquire the land shall cease, unless		
otherwise agreed by the Director-General.		
	N/A	No requests have
7. The Applicant shall bear the full costs of any independent		been received by
valuer's valuation, determination and report.		landowners.
	N/A	No requests have
8. If the Applicant and landowner agree that only part of the		been received by
land shall be acquired, then the Applicant shall		landowners.
pay all reasonable costs associated with obtaining Council		
approval for any plan of subdivision (where permissible), and registration of the plan at the Office of the		
Registrar-General.		
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SCHEDULE 8: ENVIRONMENTAL MANAGEMENT, MONITORING, AUDITING AND REPORTING

T	
Compliant	An Environmental Management Strategy was submitted to the DoP by 30 April 2009 to meet these requirements and was approved in December 2009. The EMS was updated and resubmitted in March 2012 and approved.
Compliant	Management Plans were submitted to the DoP by 30 April 2009 to meet these requirements. The Environmental Monitoring Program was approved in December 2009. Management plans were again

		approved.
REPORTING		
Incident Reporting		
3. Within 24 hours of detecting the occurrence of an incident that causes (or may cause) material harm to the environment, the Applicant shall notify the Department and other relevant agencies of the incident.	Compliant	No incidents causing material environmental harm have occurred and hence no incident reports have been submitted to the department.
 4. Within 21 days of notifying the Department and other relevant agencies of such an incident, the Applicant shall provide the Department and these agencies with a written report that: (a) describes the date, time, and nature of the incident; (b) identifies the cause (or likely cause) of the incident; (c) describes what action has been taken to date; and (d) describes the proposed measures to address the incident. 	Compliant	Incidents are reported to relevant agencies as per requirements.
Annual Reporting		
 5. By the end of September each year, and for at least 3 years following the cessation of mining at the development, the Applicant shall submit an AEMR to the Director-General, CCC and all relevant agencies. This report must relate to the previous financial year and: (a) identify the standards and performance measures that apply to the development; (b) describe the works carried out in the previous financial year; (c) describe the works that would be carried out in the current financial year; (d) include a summary of the complaints received during the past year, and compare this to the complaints received in previous years; (e) include a summary of the monitoring results for the development during the past year; (f) include an analysis of these monitoring results against the relevant: impact assessment criteria/limits; monitoring results from previous years; and predictions in the EIS, EA or other documents listed in condition 2 of schedule 4; (g) identify and discuss all exceedances of consent and licence conditions and other applicable standards and performance measures; (h) identify any trends in the monitoring results over the life of the development; 	Compliant	The Dendrobium Mine AEMR is submitted to the relevant stakeholders annually as per the requirements.

(i) identify any non-compliance during the previous year; and(j) describe what actions were, or are being, taken to ensure compliance.		
INDEPENDENT ENVIRONMENTAL AUDIT		
 6. By 31 December 2011, and every 3 years thereafter, unless the Director-General directs otherwise, the Applicant shall commission and pay the full cost of an Independent Environmental Audit of the development. This audit must: (a) be conducted by suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Director-General; (b) include consultation with the relevant agencies; (c) assess the environmental performance of the development and assess whether it is complying with the relevant requirements in this approval and any relevant EPL or mining lease (including any strategy, plan or program required under these approvals); (d) review the adequacy of strategies, plans or programs required under these approvals; and, if appropriate, (e) recommend measures or actions to improve the environmental performance of the development, and/or any strategy, plan or program required under these approvals. Note: This audit team must be led by a suitably qualified auditor and include experts in the fields of a) mine subsidence impacts and remediation and b) stream hydrology and water quality. 	Compliant	The last Independent Environmental Audit was undertaken by Kadenz Pty Ltd in December 2014. The next independent audit is due to be undertaken prior to 31 December 2016.
7. Within 6 weeks of the completing of this audit, or as otherwise agreed by the Director-General, the Applicant shall submit a copy of the audit report to the Director-General, together with its response to any recommendations contained in the audit report.	Compliant	Audit reports from independent environmental audits, along with responses to any recommendations within the audit report, are submitted to the Director-General as per the requirement.
8. Within 3 months of submitting the audit report to the Director-General, the Applicant shall review, and if necessary revise the strategies/plans/programs required under this consent to the satisfaction of the Director-General.	Compliant	Strategies/Plans/Pr ograms will be revised where required and resubmitted
COMMUNITY CONSULTATIVE COMMITTEE		
9. The Applicant shall maintain a Community Consultative Committee (CCC) for the development to the satisfaction of	Compliant	The Dendrobium Community

the Director-General. This CCC must be operated in general accordance with the <i>Guidelines for Establishing and Operating</i> <i>Community Consultative Committees for Mining Projects</i> (<i>Department of Planning, 2007</i> , or its latest version) to the satisfaction of the Director-General. Note: The CCC is an advisory committee. The Department and other relevant agencies are responsible for ensuring that the Applicant complies with this consent. In accordance with the Guideline, the Committee should comprise an independent chair and appropriate representation from the Applicant, affected councils, recognised environmental groups and the general community in Mt Kembla and the area of the development.		Consultative Committee is in place. Meetings are held every two months.
 10. If required by the CCC, the Applicant shall establish and maintain a trust fund, or other funding arrangement that may be agreed between the Applicant and the CCC. This fund shall be: (a) managed by the Chair of the CCC to facilitate the functioning of the CCC; (b) used only if required for the engagement of consultants to interpret technical information and the like; (c) provided with \$8,000 per annum (indexed according to the CPI) by the Applicant for the duration of mining operations and other activities under the consent, or as otherwise directed by the Director-General; (d) managed so that any monies unspent during each year are returned to the Applicant; (e) managed so that the Chair of the CCC causes a record of the finances of the fund to be kept and provided to the Applicant and the Director-General at the end of each year the fund is used. 	Compliant	A request was made in FY16 to access funds for a peer review of study associated with Surface Water studies conducted for Dendrobium Area 3.
ACCESS TO INFORMATION		
 11. Within 3 months of the approval of any strategy/plan/program required under this consent (or any subsequent revision of these strategies/plans/ programs), or the completion of the audits or AEMRs required under this consent, the Applicant shall: (a) provide a copy of the relevant document/s to the relevant agencies and CCC; and (b) put a copy of the relevant document/s on its website. 	Compliant	Strategies, plans and programs are updated on the web site as they become available.
 12. From 30 April 2009, and thereafter during the development, the Applicant shall: (a) provide a copy of this consent as may be modified from time to time on its website; (b) provide a comprehensive, running summary of monitoring results required under this consent on its website; and 	Compliant	The website is updated every three months.

(c) update these results on a regular basis (at least every	
three months).	

APPENDIX D Community Complaints Report

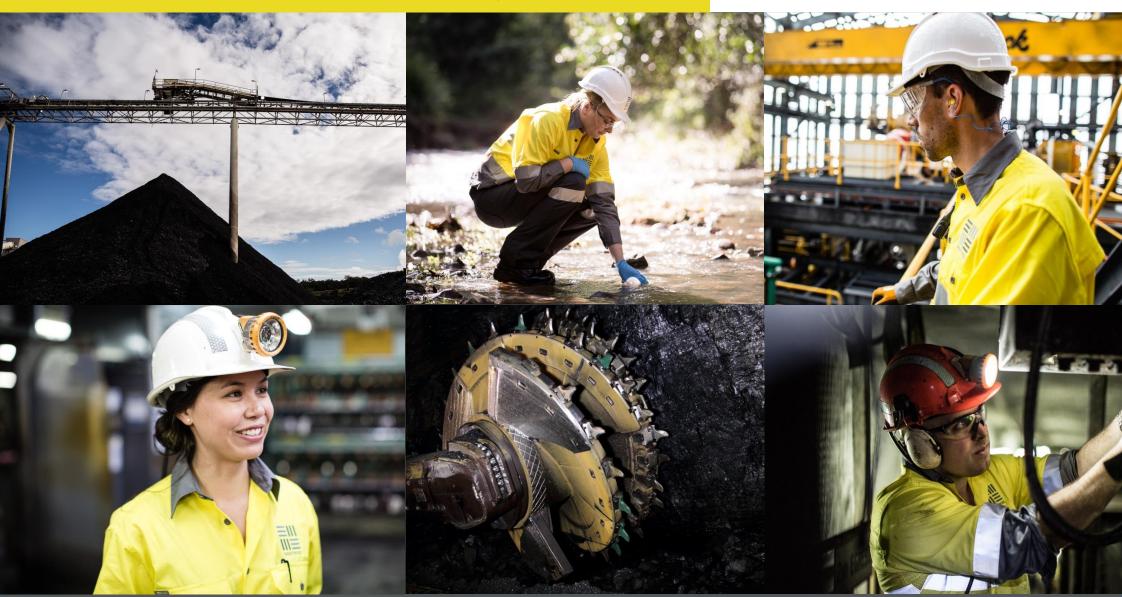




COMPLAINTS REPORT

July 2016

DENDROBIUM OPERATIONS



Dendrobium Mine - Community Complaints Report

Operation/Project	Month	Date	Nature of Complaint	Actions / Follow Up			
Processing & Logistics	April 2015	7/04/2015	Wheel/brake squeal from train travelling on Kemira Valley Rail Line (phone call)	Project is underway to address rail noise on the rail line.			
Processing & Logistics	April 2015	7/04/2015	Wheel/brake squeal from train travelling on Kemira Valley Rail Line (phone call)	Project is underway to address rail noise on the rail line.			
Processing & Logistics	April 2015	13/04/2015	Wheel/brake squeal from train travelling on Kemira Valley Rail Line (email)	Project is underway to address rail noise on the rail line.			
Processing & Logistics	April 2015	15/04/2015	Wheel/brake squeal from train travelling on Kemira Valley Rail Line (email)	Project is underway to address rail noise on the rail line.			
Processing & Logistics	April 2015	19/04/2015	Wheel/brake squeal from train travelling on Kemira Valley Rail Line (email)	Project is underway to address rail noise on the rail line.			
	May 2015		No complaints received				
Processing and Logistics	June 2015	6/06/2015	Three calls to Community call line - noisy trains	Project is underway to address rail noise on the rail line.			
Processing and Logistics	June 2015	10/06/2015	Call to community call line - noisy train	Project is underway to address rail noise on the rail line.			
Processing and Logistics	June 2015	13/06/2015	Wheel/brake squeal from train travelling on Kemira Valley Rail Line (call)	Project is underway to address rail noise on the rail line.			
Processing and Logistics	June 2015	13/06/2015	Wheel/brake squeal from train travelling on Kemira Valley Rail Line (Email)	Project is underway to address rail noise on the rail line.			
Processing and Logistics	June 2015	14/06/2015	Complaint of 5 noisy trains throughout the day/evening	Project is underway to address rail noise on the rail line.			
Processing and Logistics	June 2015	14/06/2015	Complaint of noisy train 9.21pm	Project is underway to address rail noise on the rail line.			
Processing and Logistics			Wheel/brake squeal from train travelling on Kemira Valley Rail Line (email)				

Operation/Project	Month	Date	Nature of Complaint	Actions / Follow Up			
Processing and Logistics	June 2015	22/06/2015	Wheel/brake squeal from train travelling on	Project is underway to address rail noise on the			
			Kemira Valley Rail Line (email)	rail line.			
Processing and Logistics	June 2015	23/06/2015	Wheel/brake squeal from train travelling on	Project is underway to address rail noise on the			
			Kemira Valley Rail Line (email)	rail line.			
Processing and Logistics	June 2015	25/06/2015	Wheel/brake squeal from train travelling on	Project is underway to address rail noise on the			
			Kemira Valley Rail Line (email)	rail line.			
Processing and Logistics	June 2015	27/06/2015	Wheel/brake squeal from train travelling on	Project is underway to address rail noise on the			
			Kemira Valley Rail Line (call)	rail line			
Processing & Logistics	July 2015	2/07/2015	Wheel/brake squeal from train travelling on	Project is underway to address rail noise on the			
			Kemira Valley Rail Line (email)	rail line			
Processing & Logistics	July 2015	30/07/2015	Wheel/brake squeal from train travelling on	Project is underway to address rail noise on the			
			Kemira Valley Rail Line (call)	rail line			
Processing & Logistics	August 2015	3/08/2015	Wheel/brake squeal from train travelling on	Project is underway to address rail noise on the			
			Kemira Valley Rail Line (call)	rail line			
Processing & Logistics	August 2015	10/08/2015	Wheel/brake squeal from train travelling on	Project is underway to address rail noise on the			
			Kemira Valley Rail Line (call)	rail line			
Processing & Logistics	August 2015	10/08/2015	Wheel/brake squeal from train travelling on	Project is underway to address rail noise on the			
			Kemira Valley Rail Line (call)	rail line			
Processing & Logistics	August 2015	11/08/2015	Wheel/brake squeal from train travelling on	Project is underway to address rail noise on the			
			Kemira Valley Rail Line (call x 3)	rail line			
Processing & Logistics	August 2015	12/08/2015	Wheel/brake squeal from train travelling on	Project is underway to address rail noise on the			
			Kemira Valley Rail Line (email)	rail line			
Processing & Logistics	August 2015	16/08/2015	Wheel/brake squeal from train travelling on	Project is underway to address rail noise on the			
			Kemira Valley Rail Line (Call)	rail line			
Processing & Logistics	August 2015	22/08/2015	Wheel/brake squeal from train travelling on	Project is underway to address rail noise on the			
			Kemira Valley Rail Line (Call)	rail line			
Processing & Logistics	August 2016	23/08/2015	Wheel/brake squeal from train travelling on	Project is underway to address rail noise on the			
			Kemira Valley Rail Line (Call)	rail line			

Operation/Project	Dperation/Project Month Date Nature of Compla		Nature of Complaint	Actions / Follow Up
Processing & Logistics	August 2015	16/08/2015	Wheel/brake squeal from train travelling on	Project is underway to address rail noise on the
			Kemira Valley Rail Line (email)	rail line
Processing & Logistics	August 2015	22/08/2015	Wheel/brake squeal from train travelling on	Project is underway to address rail noise on the
			Kemira Valley Rail Line (email)	rail line
Processing & Logistics	ing & Logistics August 2015 17/08/2015 Wheel/brake squeal from train travelling on		Project is underway to address rail noise on the	
			Kemira Valley Rail Line (phone)	rail line
Processing & Logistics	August 2015	29/08/2015	Wheel/brake squeal from train travelling on	Project is underway to address rail noise on the
			Kemira Valley Rail Line (Call)	rail line
Processing & Logistics	August 2015	30/08/2015	Wheel/brake squeal from train travelling on	Project is underway to address rail noise on the
			Kemira Valley Rail Line (Call)	rail line
Processing & Logistics	August 2015	31/08/2015	Wheel/brake squeal from train travelling on	Project is underway to address rail noise on the
			Kemira Valley Rail Line (email)	rail line
Processing & Logistics	September 2015	2/09/2015	Wheel/brake squeal from train travelling on	Project is underway to address rail noise on the
			Kemira Valley Rail Line (email)	rail line
Processing & Logistics	September 2015	9/09/2015	Wheel/brake squeal from train travelling on	Project is underway to address rail noise on the
			Kemira Valley Rail Line (email)	rail line
Processing & Logistics	September 2015	10/09/2015	Wheel/brake squeal from train travelling on	Project is underway to address rail noise on the
			Kemira Valley Rail Line (call)	rail line
Processing & Logistics	September 2015	22/09/2015	Wheel/brake squeal from train travelling on	Project is underway to address rail noise on the
			Kemira Valley Rail Line (email)	rail line
Dendrobium Pit Top	September 2015	23/09/2015	Resident complained about a droning noise from	Temporary compressor on site due to power
			the mine site.	supply outage
Processing & Logistics	September 2015	29/09/2015	Wheel/brake squeal from train travelling on	Project is underway to address rail noise on the
			Kemira Valley Rail Line (call)	rail line
Processing & Logistics	October 2015	8/10/2015	Wheel/brake squeal from train travelling on	Project is underway to address rail noise on the
			Kemira Valley Rail Line (email)	rail line
Processing & Logistics	October 2016	19/10/2015	Wheel/brake squeal from train travelling on	Project is underway to address rail noise on the
			Kemira Valley Rail Line (email)	rail line

Operation/Project Month		Date	Nature of Complaint	Actions / Follow Up			
Processing & Logistics	November 2015	19/11/2015	Wheel/brake squeal from train travelling on	Project is underway to address rail noise on the			
			Kemira Valley Rail Line (call)	rail line			
Processing & Logistics	November 2015	26/11/2015	Wheel/brake squeal from train travelling on	Project is underway to address rail noise on the			
			Kemira Valley Rail Line (call)	rail line			
Processing & Logistics	ssing & Logistics November 2015 26/11/2015 Wheel/brake squeal from train travelling on		Project is underway to address rail noise on the				
			Kemira Valley Rail Line (call)	rail line			
Dendrobium Pit Top	November 2015	27/11/2015	Noise complaint regarding compressor on pit top	Compressor checked for any issues. Compressors			
				only on site for a few days while work on the			
Dendrobium Pit Top	November 2015	28/11/2015	Noise complaint regarding compressor on pit top	Compressor checked for any issues. Compressors			
				only on site for a few days while work on the			
Processing & Logistics	December2015	1/12/2015	Wheel/brake squeal from train travelling on	Project is underway to address rail noise on the			
			Kemira Valley Rail Line (call)	rail line			
Processing & Logistics	December2015	7/12/2015	Wheel/brake squeal from train travelling on	Project is underway to address rail noise on the			
			Kemira Valley Rail Line (email)	rail line			
Processing & Logistics	December2015	7/12/2015	Wheel/brake squeal from train travelling on	Project is underway to address rail noise on the			
			Kemira Valley Rail Line (email)	rail line			
Processing & Logistics	December2015	8/12/2015	Wheel/brake squeal from train travelling on	Project is underway to address rail noise on the			
			Kemira Valley Rail Line (call)	rail line			
Processing & Logistics	January 2016	2/01/2016	Wheel/brake squeal from train travelling on	Project is underway to address rail noise on the			
			Kemira Valley Rail Line (email)	rail line			
Processing & Logistics	January 2016	5/01/2016	Wheel/brake squeal from train travelling on	Project is underway to address rail noise on the			
			Kemira Valley Rail Line (email)	rail line			
Processing & Logistics	January 2016	12/01/2016	Wheel/brake squeal from train travelling on	Project is underway to address rail noise on the			
			Kemira Valley Rail Line (call).	rail line			
Processing & Logistics	January 2016	27/01/2016	Wheel/brake squeal from train travelling on	Project is underway to address rail noise on the			
			Kemira Valley Rail Line (call).	rail line			
Processing & Logistics	January 2016	28/01/2016	Wheel/brake squeal from train travelling on	Project is underway to address rail noise on the			
			Kemira Valley Rail Line (call).	rail line			

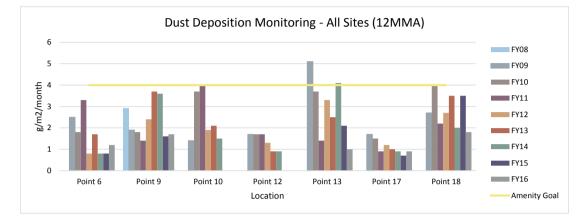
Operation/Project	Month	Date	Nature of Complaint	Actions / Follow Up
	February 2016		No complaints received.	
Dendrobium Pit Top	March 2016	10/03/2016	Dust from Dendrobium Mine	Informed site personnel and complaint investigated
Processing & Logistics	March 2016	14/03/2016	Wheel/brake squeal from train travelling on Kemira Valley Rail Line (email).	Project is underway to address rail noise on the rail line
Processing & Logistics	April 2016	22/04/2016	Wheel/brake squeal from train travelling on Kemira Valley Rail Line (call).	Project is underway to address rail noise on the rail line
Dendrobium Pit Top	April 2016	8/04/2016	Dust from Dendrobium Mine	Investigated complaint
Dendrobium Pit Top	May 2016	7/05/2016	Dust from mine emitting onto property	Investigated complaint, looking at systems, regularly inspecting property
Dendrobium Pit Top	May 2016	6/05/2016	Wheel/break Squeal from train travelling on Kemira Valley Rail Line (call).	Investigated complaint, project is underway to address rail noise.
	June 2016		No new complaints made for the month	
	July 2016		No complaints made for the month	

APPENDIX E1 Dendrobium Air Quality Data



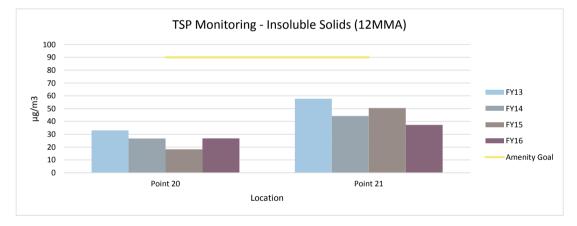
Dust Deposition Results - 12MMA

	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	Amenity Goal
Point 6		2.5	1.8	3.3	0.8	1.7	0.8	0.8	1.2	4
Point 9	2.9	1.9	1.8	1.4	2.4	3.7	3.6	1.6	1.7	4
Point 10		1.4	3.7	4	1.9	2.1	1.5			4
Point 12		1.7	1.7	1.7	1.3	0.9	0.9			4
Point 13		5.1	3.7	1.4	3.3	2.5	4.1	2.1	1	4
Point 17		1.7	1.5	0.9	1.2	1	0.9	0.7	0.9	4
Point 18		2.7	4	2.2	2.7	3.5	2	3.5	1.8	4



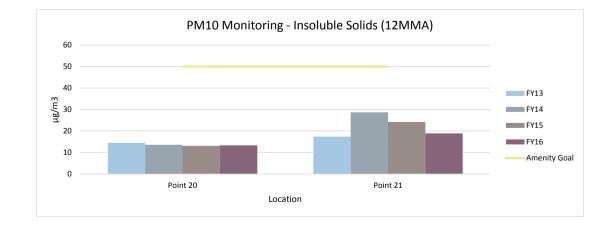
HVAS - TSP - 12MMA

	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	Amenity Goal
Point 20						33	26.7	18.3	26.8	90
Point 21						57.7	44.3	50.5	37.3	90



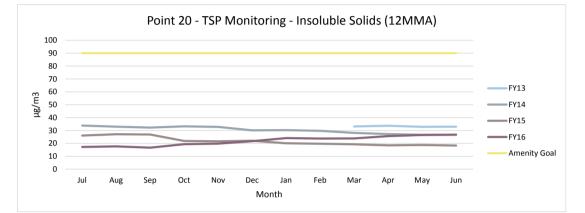
HVAS - PM10 - 12MMA

	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	Amenity Goal
Point 20						14.5	13.6	13.1	13.3	50
Point 21						17.4	28.7	24.2	18.9	50



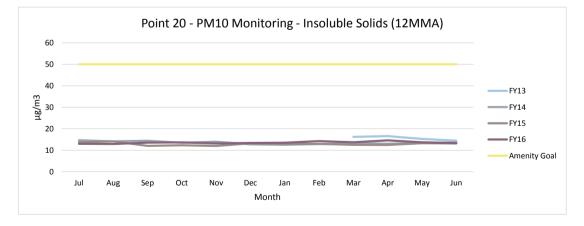
HVAS Point 20 - TSP - 12MMA

	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	Amenity Goal
Jul							33.8	26.1	17.2	90
Aug							32.9	27.1	17.7	90
Sep							32.3	26.9	16.7	90
Oct							33.2	21.9	19.4	90
Nov							32.7	21.6	19.9	90
Dec							30.1	22.0	21.7	90
Jan							30.3	20.1	24.1	90
Feb							29.7	19.8	23.7	90
Mar						33.1	28.1	19.2	23.8	90
Apr						33.7	27.2	18.5	25.6	90
Мау						32.8	26.7	18.7	26.5	90
Jun						33.0	26.7	18.3	26.8	90



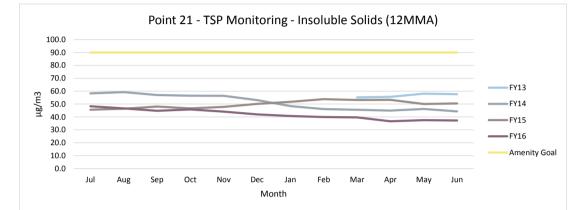
HVAS Point 20 - PM10 - 12MMAS

	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	Amenity Goal
Jul							14.6	13.7	13.0	50
Aug							14.2	14.1	12.9	50
Sep							14.4	12.0	13.5	50
Oct							13.5	12.3	13.7	50
Nov							13.9	12.0	13.1	50
Dec							12.8	13.2	13.4	50
Jan							12.5	12.9	13.5	50
Feb							12.9	13.0	14.2	50
Mar						16.2	13.2	12.5	13.7	50
Apr						16.6	13.0	12.5	14.6	50
May						15.3	13.4	13.3	13.7	50
Jun						14.5	13.6	13.1	13.3	50



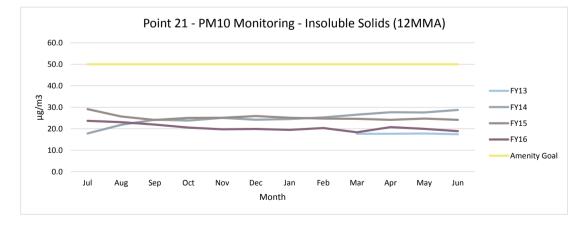
HVAS Point 21 - TSP - 12MMAS

	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	Amenity Goal
Jul							58.2	45.6	48.3	90
Aug							59.2	46.4	46.7	90
Sep							57.0	48.1	44.8	90
Oct							56.5	46.6	45.8	90
Nov							56.4	47.8	44.1	90
Dec							53.1	50.1	42.0	90
Jan							48.4	51.8	40.7	90
Feb							46.1	53.8	39.9	90
Mar						55.2	45.6	53.1	39.7	90
Apr						55.6	45.0	53.3	36.6	90
May						58.1	46.2	50.0	37.5	90
Jun						57.7	44.3	50.5	37.3	90

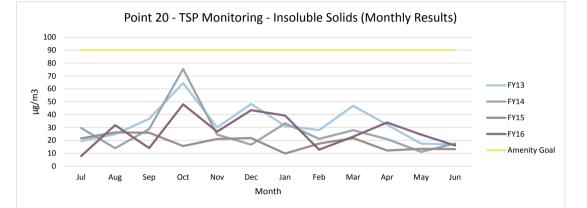


HVAS Point 21 - PM10 - 12MMAS

	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	Amenity Goal
Jul							17.8	29.1	23.7	50
Aug							21.8	25.7	23.0	50
Sep							24.2	24.1	21.9	50
Oct							23.8	25.0	20.6	50
Nov							25.0	25.1	19.7	50
Dec							24.2	25.9	19.9	50
Jan							24.5	25.1	19.5	50
Feb							25.3	24.7	20.3	50
Mar						17.7	26.6	24.6	18.3	50
Apr						17.7	27.7	24.1	20.7	50
May						17.8	27.5	24.7	19.9	50
Jun						17.4	28.7	24.2	18.9	50

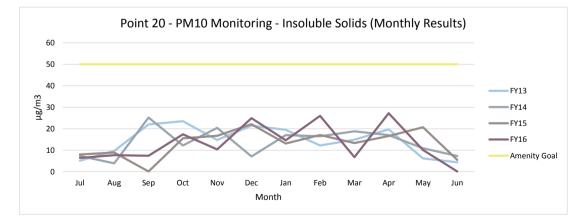


	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	Amenity Goal
Jul						19.5	29.6	21.5	7.9	90
Aug						24.7	13.9	26.2	31.8	90
Sep						36.7	28.8	25.9	14.0	90
Oct						64.4	75.4	15.6	48.0	90
Nov						30	24.5	21.1	26.8	90
Dec						48.3	16.7	21.8	43.4	90
Jan						31.2	33.2	9.8	39.2	90
Feb						28	21.2	17.5	12.8	90
Mar						46.8	27.9	21.8	22.9	90
Apr					25.7	32.2	21.0	12.1	33.9	90
May					27.6	17.5	11.1	13.5	24.5	90
Jun					14.7	16.7	17.6	13.2	16.1	90

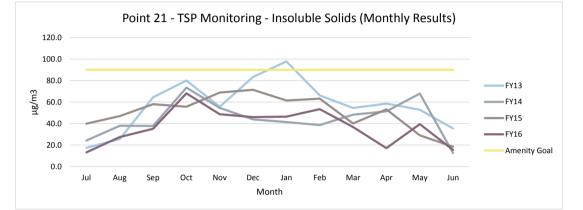


HVAS Point 20 - PM10 - Monthly Results

	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	Amenity Goal
Jul						5.1	7.3	8.0	6.4	50
Aug						9.7	3.9	8.9	7.7	50
Sep						22	25.2	0.1	7.4	50
Oct						23.5	12.2	15.5	17.4	50
Nov						14.8	20.4	16.7	10.4	50
Dec						21.4	7.1	22.1	24.9	50
Jan						19.5	17.0	13.1	14.6	50
Feb						12.2	16.5	17.1	26.0	50
Mar						14.9	18.8	13.3	6.8	50
Apr					15.8	19.7	17.0	16.6	27.2	50
May					21.7	6.2	10.9	20.7	10.1	50
Jun					14.3	4.4	7.3	5.5	0.1	50

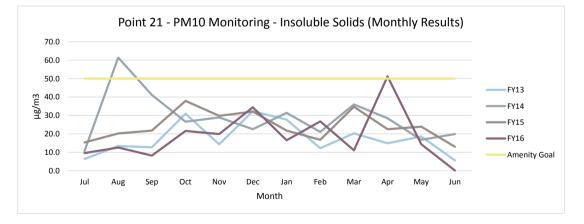


	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	Amenity Goal
Jul						17.4	24.2	39.9	13.2	90
Aug						25.6	37.9	47.0	27.4	90
Sep						64.4	37.7	58.0	35.2	90
Oct						80.0	73.4	55.7	68.1	90
Nov						55.7	54.6	68.9	48.7	90
Dec						83.3	43.8	71.4	46.0	90
Jan						97.8	41.4	61.4	46.4	90
Feb						66.2	38.6	63.2	53.4	90
Mar						54.5	48.3	40.1	36.8	90
Apr					53.5	58.6	51.4	53.2	17.1	90
May					23.2	52.9	67.9	29.0	39.4	90
Jun					40.4	35.4	12.5	18.4	15.4	90



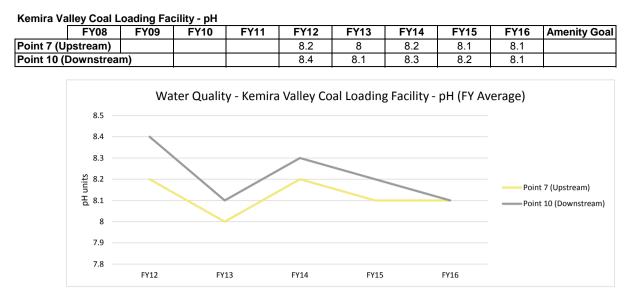
HVAS Point 21 - PM10 - Monthly Results

	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	Amenity Goal
Jul						6.4	10.7	15.3	9.6	50
Aug						13.4	61.4	20.2	12.6	50
Sep						12.7	41.1	21.8	8.2	50
Oct						30.9	26.6	37.9	21.6	50
Nov						14.3	28.9	29.8	19.9	50
Dec						32.3	22.5	32.1	34.4	50
Jan						27.7	31.4	21.8	16.5	50
Feb						12.2	21.0	16.8	26.8	50
Mar						20.3	36.0	34.7	11.1	50
Apr					14.8	14.9	28.5	22.5	51.2	50
Мау					17.2	18.6	16.8	23.9	14.4	50
Jun					9.6	5.6	19.9	13.0	0.1	50



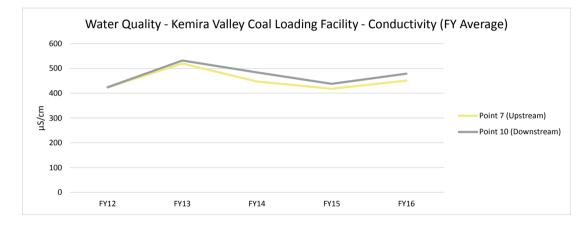
APPENDIX E2 Kemira Valley Water Quality Data



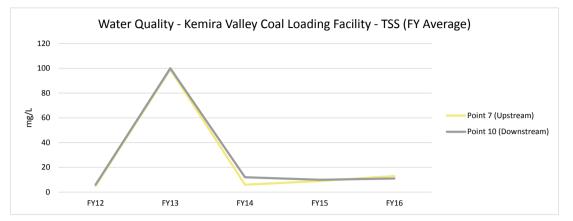


Kemira Valley Coal Loading Facility - Conductivity

		outing i u	onity con-	adotivity						
	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	Amenity Goal
Point 7 (U	pstream)				423	520	447	418	451	
Point 10 (I	Downstrea	m)			424	532	484	438	479	

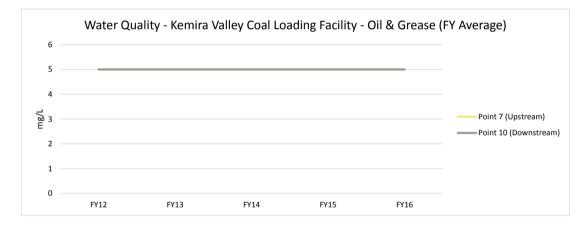


Kemira Valley Coal Loading Facility - TSS											
	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	Amenity Goal	
Point 7 (Upstream) 5 99 6 9 13											
Point 10 (D	ownstrear	n)			6	100	12	10	11		



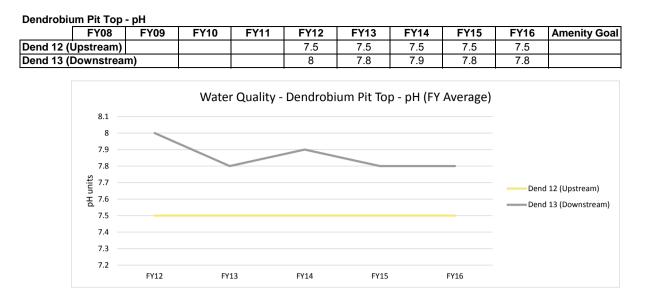
Kemira Valley Coal Loading Facility - Oil & Grease

	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	Amenity Goal			
Point 7 (U	pstream)				5	5	5	5	5				
Point 10 (Downstream)				5	5	5	5	5					



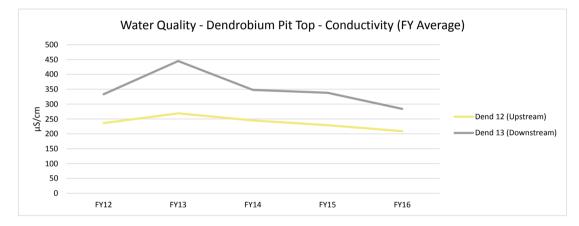
APPENDIX E3 Dendrobium Pit Top Water Quality Data

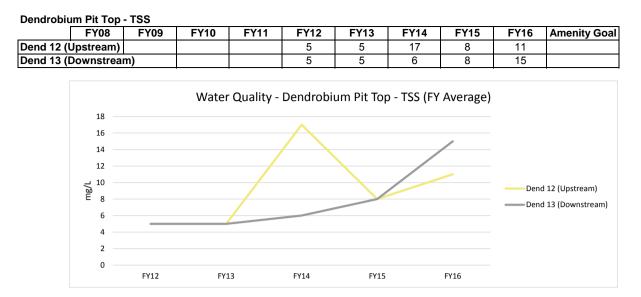




Dendrobium Pit Top - Conductivity

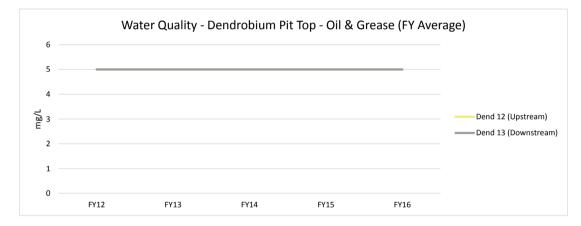
	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	Amenity Goal
Dend 12 (I	Upstream)				236	269	245	229	209	
Dend 13 (Downstream)				333	445	348	338	284		





Dendrobium Pit Top - Oil & Grease

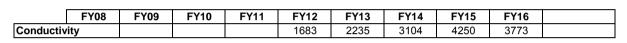
	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	Amenity Goal			
Dend 12 (I	Jpstream)				5	5	5	5	5				
Dend 13 (Downstream)				5	5	5	5	5					



APPENDIX E4 Dendrobium LDP5 Water Quality Data



	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	
Arsenic		1.00			0.016	0.028	0.038	0.043	0.024	
Licence L	imit				1.3	1.3	1.3	1.3	1.3	
				LC	0P5 - Arsei	nic (FY Ave	erage)			
	1.4 —									
	1.2 —									
	1 —									
	E 0.8									A
	س ^{0.8} – 2.8 – 2.8 – 2.8 – 1.									Arsenic Licence Limi
	0.0									
	0.4 —									



FY14

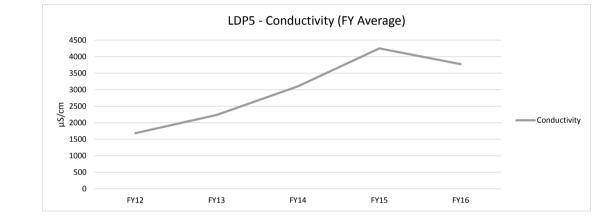
FY15

FY16

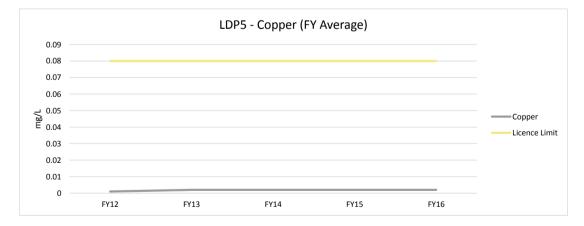
0

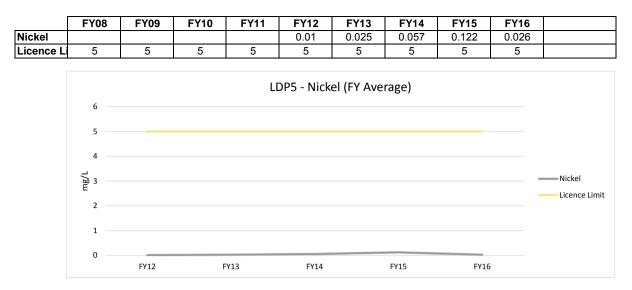
FY12

FY13

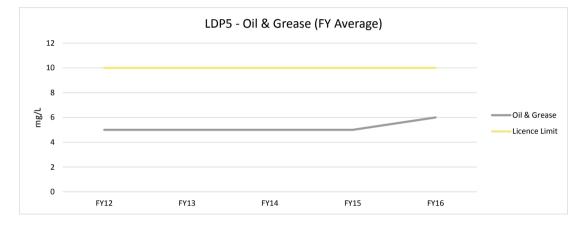


	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	
Copper					0.001	0.002	0.002	0.002	0.002	
Licence Li	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	

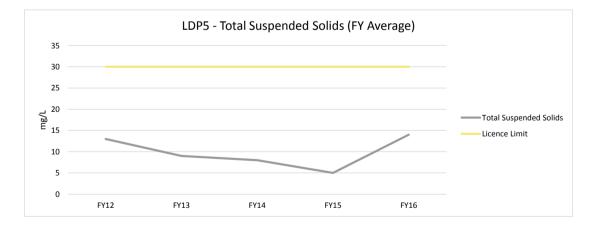


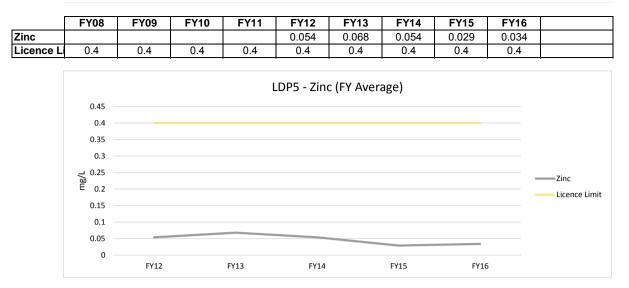


	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	
Oil & Grea	se				5	5	5	5	6	
Licence Li	10	10	10	10	10	10	10	10	10	



	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	
Total Suspended Solids				13	9	8	5	14		
Licence L	30	30	30	30	30	30	30	30	30	





	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	
рН					7.5	7.9	8	8.1	8	
Lower Lic	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	
Upper Lice	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	

