

NEMA/ NEM:WA Application



mineral resources

Department:
Mineral Resources
REPUBLIC OF SOUTH AFRICA

APPLICATION FORM FOR ENVIRONMENTAL AUTHORISATIONS IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, 1998 AND THE NATIONAL ENVIRONMENTAL MANAGEMENT WASTE ACT, 2008 IN RESPECT OF LISTED ACTIVITIES THAT HAVE BEEN TRIGGERED BY APPLICATIONS IN TERMS OF THE MINERAL AND PETROLEUM RESOURCES DEVELOPMENT ACT, 2002 (MPRDA) (AS AMENDED).

APPLICATION FOR AN ENVIRONMENTAL AUTHORISATION FOR LISTED ACTIVITIES ASSOCIATED WITH THE DEVELOPMENT OF THE PROPOSED ALEXANDER PROJECT, NEAR KRIEL, MPUMALANGA

DMR reference no.: MP30/5/1/1/2/(59) PR, MP30/5/1/1/2/(54) PR, MP30/5/1/1/2/(61) PR
Mining Right Application

IMPORTANT NOTICE

Kindly note that:

1. As from 8 December 2014, this document serves as the application form, and incorporates the requisite documents that are to be submitted together with the application for the necessary environmental authorisations in terms of the said Acts.
2. This application form is applicable while the Mineral and Petroleum Resources Development Amendment Act of 2008 is in effect, as the form may require amendment should the Act be further amended.
3. Applicants are required to apply for the necessary water use licence and any other authorisations nor licences to the relevant competent authorities as required by the relevant legislation. Upon acceptance of an application for a right or permit in terms of the MPRDA, applicants will be required to provide evidence to the Regional Manager that a water use licence has been applied for.
4. The Regional Manager will respond to the application and provide the reference and correspondence details of the Competent Authority, and in the event that the application for a right or permit is accepted, together with the date by which the relevant environmental reports must be submitted. Notwithstanding anything that may appear to be stated to the contrary in the acceptance letter, the timeframes are in fact aligned and the prescribed timeframes for the submission of documents as regulated by the NEMA regulations must be strictly adhered to.
5. The application must be typed within the spaces provided in the form. The sizes of the spaces provided are not necessarily indicative of the amount of information to be provided. Spaces are provided in tabular format and will extend automatically when each space is filled with typing.
6. The failure to submit complete information as required in this application form may result in the refusal of the application for an environmental authorisation and consequently of the right or permit applied for.
7. This application must be submitted through the SAMRAD online application system of the Department of Mineral Resources under "Other documents to upload".
8. Unless protected by law, all information filled in on this application form will become public information on receipt by the competent authority. Any interested and affected party should and shall be provided with the information contained in this application on request, during any stage of the application process.
9. Please note that an application fee is payable in terms of the National Environmental Management Act and the National Waste Management Act, which fees must be paid upon lodgement of the application. Should the said application fees not be paid as prescribed the application for a right or permit in terms of the Mineral and Petroleum Resources Development Act cannot be considered to have been made in the prescribed manner and the said application for a right or permit will have to be rejected. In this regard the type of applications must be identified in the table below.

PLEASE STATE TYPE OF AUTHORISATIONS BEING APPLIED FOR.

APPLICATION TYPE	APPLICABLE FEE	Mark with an X where applicable
NEMA S&EIR application on its own	R10 000.00*	<input type="checkbox"/>
NEMA BAR application on its own	R 2 000.00	<input type="checkbox"/>
NEMWA S&EIR application on its own	R10 000.00	<input type="checkbox"/>
NEMWA BAR application on its own	R 2 000.00	<input type="checkbox"/>
NEMA S&EIR application combined with NEMWA S&EIR application	R 15 000.00	<input checked="" type="checkbox"/>
NEMA BAR application combined with NEMWA BAR application	R 3 000.00	<input type="checkbox"/>
NEMA S&EIR application combined with NEMWA BAR application	R 11 000.00	<input type="checkbox"/>

1. CONSULTATION BASIC ASSESSMENT AND/ OR SCOPING REPORT

2. DETAILS OF THE APPLICANT

Project applicant:	Anglo American Inyosi Coal (Pty) Limited (AAIC)		
Registration no (if any):	1921/006730/07		
Trading name (if any):	AAIC		
Responsible Person, (e.g. Director, CEO, etc.):	Chantelle Gerber - Mineral and Property Rights Manager, Coal South Africa		
Contact person:	Chantelle Gerber		
Physical address:	55 Marshall Street, Marshall Town, Johannesburg		
Postal address:	Private Bag X1, Marshalltown		
Postal code:	2107	Cell:	083 234 0145
Telephone:	011 638 3479	Fax:	011 638 4608
E-mail:	chantelle.gerber@angloamerican.com		

3. ENVIRONMENTAL ASSESSMENT PRACTITIONER (EAP) INFORMATION

EAP:	Marline Medallie and Brandon Stobart		
Professional affiliation/registration:	Certified Environmental Assessment Practitioner (EAP) in South Africa and Namibia (Brandon Stobart) Registration not yet applicable because the NEMA requirements for EAP registration are not in effect (Marline Medallie).		
Contact person (if different from EAP):	Marline Medallie		
Company:	Synergistics Environmental Services (Pty) Ltd		
Physical address:	SLR House (Block 7) Fourways Manor Office Park Corner Roos and Macbeth Street Fourways, Johannesburg, 2060		
Postal address:	PO Box 1596, Cramerview		
Postal code:	2060	Cell:	082 782 5301
Telephone:	011 467 0945	Fax:	011 467 0978
E-mail:	mmedallie@slrconsulting.com		

If an EAP has not been appointed please ensure that an independent EAP is appointed as stipulated by the NEMA Regulations, prior to the commencement of the process.

The declaration of independence and the Curriculum Vitae (indicating the experience with environmental impact assessment and relevant application processes) of the EAP must also be attached as **Appendix 1**.

4. PROJECT DESCRIPTION

Farm Name:	<p><u>Mining Right Application</u></p> <p>Aangewys 81 IS portion 1 Aangewys 81 IS portion 3 Aangewys 81 IS portion 4 Aangewys 81 IS portion 6 Aangewys 81 IS portion 7 Aangewys 81 IS portion 8 Aangewys 81 IS portion 16 Aangewys 81 IS portion 17 Aangewys 81 IS portion 18 Aangewys 81 IS portion 19 Aangewys 81 IS portion 21 Aangewys 81 IS portion 22 Aangewys 81 IS portion 23 Aangewys 81 IS portion 25 Aangewys 81 IS portion 26 Aangewys 81 IS portion 27 Aangewys 81 IS portion 28 Aangewys 81 IS portion 30 Aangewys 81 IS portion 31 Aangewys 81 IS portion 34 Aangewys 81 IS portion 35 Aangewys 81 IS portion 36 Aangewys 81 IS portion 37 Aangewys 81 IS portion 38 Alexander 102 IS portion 1 Alexander 102 IS portion 2 Alexander 102 IS portion 3 Alexander 102 IS portion 4 Alexander 102 IS portion 5 Alexander 102 IS portion 9 Alexander 102 IS portion 10 Alexander 102 IS portion 12 Alexander 102 IS portion 13 Alexander 102 IS portion 14 Bakenlaagte 84 IS portion 4 Bakenlaagte 84 IS portion 6 Boschmanskraal 113 IS portion 4 Brakfontein 117 IS RE Caley 77 IS RE Dorstfontein 71 IS RE Dorstfontein 71 IS portion 6 Driefontein 69 IS RE Driefontein 69 IS portion 1 Driefontein 69 IS portion 2 Driefontein 69 IS portion 3 Driefontein 69 IS portion 8 Driefontein 69 IS portion 9 Driefontein 69 IS portion 10 Driefontein 69 IS portion 11 Driefontein 69 IS portion 12 Driefontein 69 IS portion 13 Driefontein 69 IS portion 15 Driefontein 69 IS portion 17 Driefontein 69 IS portion 19 Driefontein 69 IS portion 20 Driefontein 69 IS portion 21 Driefontein 69 IS portion 22</p>
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Driefontein 69 IS portion 23
 Driefontein 69 IS portion 24
 Driefontein 69 IS portion 25
 Driefontein 69 IS portion 26
 Driefontein 69 IS portion 27
 Driefontein 69 IS portion 30
 Driefontein 69 IS portion 31
 Driefontein 69 IS portion 32
 Driefontein 69 IS portion 39
 Driefontein 69 IS portion 40
 Elandsfontein 75 IS portion 2
 Elandsfontein 75 IS portion 3
 Elandsfontein 75 IS portion 10
 Frischgewaagd 60 IS RE
 Frischgewaagd 60 IS portion 1
 Frischgewaagd 60 IS portion 2
 Frischgewaagd 60 IS portion 3
 Frischgewaagd 60 IS portion 5
 Frischgewaagd 60 IS portion 6
 Frischgewaagd 60 IS portion 7
 Frischgewaagd 60 IS portion 8
 Frischgewaagd 60 IS portion 13
 Geluk 226 IS portion 1
 Geluk 226 IS portion 2
 Halfgewonnen 190 IS portion 2
 Halfgewonnen 190 IS portion 3
 Halfgewonnen 190 IS portion 4
 Halfgewonnen 190 IS portion 12
 Halfgewonnen 190 IS portion 13
 Kafferstad 79 IS RE
 Kafferstad 79 IS portion 2
 Kafferstad 79 IS portion 6
 Kafferstad 79 IS portion 7
 Kafferstad 79 IS portion 8
 Kafferstad 79 IS portion 9
 Kafferstad 79 IS portion 10
 Kafferstad 79 IS portion 11
 Kafferstad 79 IS portion 14
 Kafferstad 79 IS portion 17
 Kafferstad 79 IS portion 19
 Kriel 73 IS RE
 Kriel 73 IS portion 1
 Kriel 73 IS portion 3
 Kriel 73 IS portion 4
 Kriel 73 IS portion 12
 Kriel Power Station 65 IS RE
 Kriel Town
 Legdaar 78 IS portion 5
 Legdaar 78 IS portion 6
 Legdaar 78 IS portion 7
 Legdaar 78 IS portion 16
 Legdaar 78 IS portion 17
 Matla Power Station 141 IS RE
 Middelkraal 50 IS remaining extent (RE)
 Middelkraal 50 IS portion 3
 Middelkraal 50 IS portion 5
 Middelkraal 50 IS portion 6
 Middelkraal 50 IS portion 8
 Nooitgedacht 59 IS RE
 Nooitgedacht 59 IS portion 1
 Nooitgedacht 59 IS portion 2
 Nooitgedacht 59 IS portion 3

Nooitgedacht 59 IS portion 6
Nooitgedacht 59 IS portion 7
Nooitgedacht 59 IS portion 8
Nooitgedacht 59 IS portion 10
Onverwacht 70 IS portion 1
Onverwacht 70 IS portion 2
Onverwacht 70 IS portion 3
Onverwacht 70 IS portion 4
Onverwacht 70 IS portion 7
Onverwacht 70 IS portion 9
Onverwacht 70 IS portion 10
Onverwacht 70 IS portion 11
Onverwacht 70 IS portion 12
Onverwacht 70 IS portion 13
Onverwacht 70 IS portion 14
Onverwacht 70 IS portion 15
Onverwacht 70 IS portion 16
Onverwacht 70 IS portion 19
Onverwacht 70 IS portion 21
Onverwacht 70 IS portion 23
Rensburgshoop 74 IS portion 2
Rensburgshoop 74 IS portion 5
Rensburgshoop 74 IS portion 7
Rietfontein 100 IS portion 2
Rietfontein 100 IS portion 4
Rietfontein 100 IS portion 5
Rietfontein 100 IS portion 6
Rietfontein 100 IS portion 7
Rietfontein 100 IS portion 8
Rietfontein 100 IS portion 10
Rietfontein 100 IS portion 12
Rietfontein 100 IS portion 13
Rietfontein 100 IS portion 14
Rietfontein 100 IS portion 15
Rietfontein 101 IS RE
Rietfontein 101 IS portion 1
Rietfontein 101 IS portion 2
Rietfontein 101 IS portion 4
Rietfontein 101 IS portion 5
Roodebloem 58 IS RE
Roodebloem 58 IS portion 3
Roodepoort 40 IS portion 2
Roodepoort 40 IS portion 14
Schurvekop 227 IS portion 7
Schurvekop 227 IS portion 12
Schurvekop 227 IS portion 13
Schurvekop 227 IS portion 14
Schurvekop 227 IS portion 22
Schurvekop 227 IS portion 26
Schurvekop 227 IS portion 27
Schurvekop 227 IS portion 28
Vaalpan 68 IS portion 1
Vaalpan 68 IS portion 2
Vaalpan 68 IS portion 3
Vaalpan 68 IS portion 4
Vaalpan 68 IS portion 6
Vaalpan 68 IS portion 7
Vaalpan 68 IS portion 8
Vaalpan 68 IS portion 9
Vaalpan 68 IS portion 10
Vaalpan 68 IS portion 11
Vierfontein 61 IS portion 4

Vierfontein 61 IS portion 6
Vierfontein 61 IS portion 24
Vierfontein 61 IS portion 32
Vierfontein 61 IS portion 39
Vierfontein 61 IS portion 40
Vierfontein 61 IS portion 45
Vierfontein 61 IS portion 46
Vierfontein 61 IS portion 47
Vierfontein 61 IS portion 48
Vierfontein 61 IS portion 49
Vierfontein 61 IS portion 50
Vlakuilen 76 IS RE
Vlaklaagte 83 IS portion 1
Vlaklaagte 83 IS portion 2
Vlaklaagte 83 IS portion 3
Vlaklaagte 83 IS portion 4
Vlaklaagte 83 IS portion 5
Wilgervlei 555 IS RE
Witbank 80 IS portion 1
Witbank 80 IS portion 3
Witbank 80 IS portion 4
Witbank 80 IS portion 6
Witbank 80 IS portion 7
Witbank 80 IS portion 8
Witbank 80 IS portion 10
Witbank 80 IS portion 11
Witbank 80 IS portion 12
Witbank 80 IS portion 13
Witbank 80 IS portion 14
Witbank 80 IS portion 15
Witbank 80 IS portion 17
Witbank 80 IS portion 20
Witbank 80 IS portion 21
Witbank 80 IS portion 23
Witbank 80 IS portion 24
Witbank 80 IS portion 25
Witbank 80 IS portion 26
Witbank 80 IS portion 27
Witbank 80 IS portion 28
Witbank 80 IS portion 29
Witbank 80 IS portion 30
Witbank 80 IS portion 31
Witbank 80 IS portion 32
Witbank 80 IS portion 33
Witbank 80 IS portion 34
Witbank 80 IS portion 37
Witbank 576 IS RE
Witrand 103 IS portion 4
Witrand 103 IS portion 5
Witrand 103 IS portion 6
Witrand 103 IS portion 7
Witrand 103 IS portion 8
Witrand 103 IS portion 18
Witrand 103 IS portion 22
Witrand 103 IS portion 25

Overland Conveyor

Elandsfontein 75 IS portion 2
Elandsfontein 75 IS portion 3
Elandsfontein 75 IS portion 4
Elandsfontein 75 IS portion 7
Elandsfontein 75 IS portion 8

	Elandsfontein 75 IS portion 9 Elandsfontein 75 IS portion 10 Elandsfontein 75 IS portion 11 Elandsfontein 75 IS portion 13 Legdaar 78 IS portion 1 Legdaar 78 IS portion 4 Legdaar 78 IS portion 5 Legdaar 78 IS portion 6 Legdaar 78 IS portion 7 Legdaar 78 IS portion 16 Legdaar 78 IS portion 17 Middelkraal 50 IS portion 3 Middelkraal 50 IS portion 8 Rensburgshoop 74 IS portion 6 Rensburgshoop 74 IS portion 10 Schoon-Vlei 52 IS portion 2 Vlakkuielen 76 IS RE.	
Application area (Ha)	A surface area of approximately ~ 220 ha (Overland conveyor ~ 100 ha; shaft complex ~ 120 ha) will be disturbed as part of the proposed Alexander Project. The proposed mining right area: 10 688.72 ha	
Magisterial district:	Emalahleni Local Municipality Govan Mbeki Local Municipality Proposed Emalahleni Magisterial District Proposed Govan Mbeki Magisterial District Nkangala District Municipality Gert Sibande District Municipality	
Distance and direction from nearest town	The proposed Alexander mine is located about 12 kilometres north-west of Bethal, and is immediately adjacent to Kriel in Mpumalanga.	
21 digit Surveyor General Code for each farm portion	21 DIGIT CODE	FARM PORTION
	Mining Right Area	
	T0IS0000000008100001	Aangewys 81 IS portion 1
	T0IS0000000008100003	Aangewys 81 IS portion 3
	T0IS0000000008100004	Aangewys 81 IS portion 4
	T0IS0000000008100006	Aangewys 81 IS portion 6
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	T0IS0000000008100008	Aangewys 81 IS portion 8
	T0IS0000000008100016	Aangewys 81 IS portion 16
	T0IS0000000008100017	Aangewys 81 IS portion 17
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	T0IS0000000008100025	Aangewys 81 IS portion 25
	T0IS0000000008100026	Aangewys 81 IS portion 26
	T0IS0000000008100027	Aangewys 81 IS portion 27
	21 DIGIT CODE	FARM PORTION
	T0IS0000000008100028	Aangewys 81 IS portion 28

TOIS0000000008100030	Aangewys 81 IS portion 30
TOIS0000000008100031	Aangewys 81 IS portion 31
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TOIS0000000007700000	Caley 77 IS RE
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TOIS0000000006900003	Driefontein 69 IS portion 3
TOIS0000000006900008	Driefontein 69 IS portion 8
TOIS0000000006900009	Driefontein 69 IS portion 9
TOIS0000000006900010	Driefontein 69 IS portion 10
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TOIS0000000006900012	Driefontein 69 IS portion 12
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21 DIGIT CODE	FARM PORTION
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21 DIGIT CODE	FARM PORTION
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T0IS0000000006500000	Kriel Power Station 65 IS RE
Town	Kriel Town
T0IS0000000007800005	Legdaar 78 IS portion 5
T0IS0000000007800006	Legdaar 78 IS portion 6
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T0IS0000000007800016	Legdaar 78 IS portion 16
T0IS0000000007800017	Legdaar 78 IS portion 17
T0IS00000000014100000	Matla Power Station 141 IS RE
T0IS0000000005000000	Middelkraal 50 IS remaining extent (RE)
T0IS0000000005000003	Middelkraal 50 IS portion 3
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T0IS0000000005000006	Middelkraal 50 IS portion 6
T0IS0000000005000008	Middelkraal 50 IS portion 8
T0IS0000000005900000	Nooitgedacht 59 IS RE
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T0IS0000000005900006	Nooitgedacht 59 IS portion 6
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21 DIGIT CODE	FARM PORTION
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T0IS0000000007400005	Rensburgshoop 74 IS portion 5
T0IS0000000007400007	Rensburgshoop 74 IS portion 7
T0IS0000000001000002	Rietfontein 100 IS portion 2
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21 DIGIT CODE	FARM PORTION
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T0IS0000000006800004	Vaalpan 68 IS portion 4
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T0IS0000000006100050	Vierfontein 61 IS portion 50
T0IS0000000007600000	Vlakkuijen 76 IS RE
T0IS0000000008300001	Vlakklaagte 83 IS portion 1
T0IS0000000008300002	Vlakklaagte 83 IS portion 2
T0IS0000000008300003	Vlakklaagte 83 IS portion 3
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T0IS0000000008300005	Vlakklaagte 83 IS portion 5
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T0IS0000000008000014	Witbank 80 IS portion 14
T0IS0000000008000015	Witbank 80 IS portion 15
21 DIGIT CODE	FARM PORTION
T0IS0000000008000017	Witbank 80 IS portion 17

T0IS0000000008000020	Witbank 80 IS portion 20
T0IS0000000008000021	Witbank 80 IS portion 21
T0IS0000000008000023	Witbank 80 IS portion 23
T0IS0000000008000024	Witbank 80 IS portion 24
T0IS0000000008000025	Witbank 80 IS portion 25
T0IS0000000008000026	Witbank 80 IS portion 26
T0IS0000000008000027	Witbank 80 IS portion 27
T0IS0000000008000028	Witbank 80 IS portion 28
T0IS0000000008000029	Witbank 80 IS portion 29
T0IS0000000008000030	Witbank 80 IS portion 30
T0IS0000000008000031	Witbank 80 IS portion 31
T0IS0000000008000032	Witbank 80 IS portion 32
T0IS0000000008000033	Witbank 80 IS portion 33
T0IS0000000008000034	Witbank 80 IS portion 34
T0IS0000000008000037	Witbank 80 IS portion 37
T0IS0000000005760000	Witbank 576 IS RE
T0IS0000000001030004	Witrand 103 IS portion 4
T0IS0000000001030005	Witrand 103 IS portion 5
T0IS0000000001030006	Witrand 103 IS portion 6
T0IS0000000001030007	Witrand 103 IS portion 7
T0IS0000000001030008	Witrand 103 IS portion 8
T0IS0000000001030018	Witrand 103 IS portion 18
T0IS0000000001030022	Witrand 103 IS portion 22
T0IS0000000001030025	Witrand 103 IS portion 25
Overland Conveyor	
T0IS0000000007500002	Elandsfontein 75 IS portion 2
T0IS0000000007500003	Elandsfontein 75 IS portion 3
T0IS0000000007500004	Elandsfontein 75 IS portion 4
T0IS0000000007500007	Elandsfontein 75 IS portion 7
T0IS0000000007500008	Elandsfontein 75 IS portion 8
T0IS0000000007500009	Elandsfontein 75 IS portion 9
T0IS0000000007500010	Elandsfontein 75 IS portion 10
T0IS0000000007500011	Elandsfontein 75 IS portion 11
T0IS0000000007500013	Elandsfontein 75 IS portion 13
T0IS0000000007800001	Legdaar 78 IS portion 1
T0IS0000000007800004	Legdaar 78 IS portion 4
T0IS0000000007800005	Legdaar 78 IS portion 5
T0IS0000000007800006	Legdaar 78 IS portion 6
21 DIGIT CODE	FARM PORTION
T0IS0000000007800007	Legdaar 78 IS portion 7

	TOIS00000000007800016	Legdaar 78 IS portion 16
	TOIS00000000007800017	Legdaar 78 IS portion 17
	TOIS00000000005000003	Middelkraal 50 IS portion 3
	TOIS00000000005000008	Middelkraal 50 IS portion 8
	TOIS00000000007400006	Rensburgshoop 74 IS portion 6
	TOIS00000000007400010	Rensburgshoop 74 IS portion 10
	TOIS00000000005200002	Schoon-Vlei 52 IS portion 2
	TOIS00000000007600000	Vlakkuielen 76 IS RE
Locality map	Attach a locality map at a scale not smaller than 1:250000 and attach as Appendix 2	
Description of the overall activity. (Indicate Mining Right, Mining Permit, Prospecting right, Bulk Sampling, Production Right, Exploration Right, Reconnaissance permit, Technical co-operation permit, Additional listed activity)	<p>Anglo American Inyosi Coal (Pty) Ltd (AAIC) is the holder of 3 prospecting rights, which together make up the Alexander prospecting area.</p> <p>The Alexander mining right application will be the consolidation of 3 prospecting rights: Kriel 2 - MP30/5/1/1/2/(61) PR, Kriel 3 (Halfgewonnen) - MP30/5/1/1/2/(54) PR and Kriel 4 - MP30/5/1/1/2/(59) PR</p> <p>The combined resource known as Alexander is a Life Extension project to the Elders Colliery, for which a Mining Right Application was lodged in July 2015 and is currently being reviewed by the Department of Mineral Resources (MR 10026MR).</p> <p>Alexander is destined to be a replacement tonnage for Elders and will be managed by the Elders operation.</p> <p>The Alexander project is located close to the towns of Kriel and Bethal in the Mpumalanga Province and falls predominantly within the Govan Mbeki Local and Gert Sibande District municipalities. Alexander is situated adjacent to the Elders Colliery to the north east and borders both Kriel and Isibonelo Collieries.</p> <p>AAIC requires a Mining Right application in terms of Section 22 and 23 of the MPRDA to convert the Alexander prospecting area into a Mining Right. Before the MR will be granted, AAIC must undertake an environmental authorisation process in terms of NEMA / NEM:WA. The competent authority for the environmental authorisation process is the Mpumalanga Department of Mineral Resources (DMR).</p> <p>AAIC proposes to develop a shaft complex, accessed via gravel road off the R545. The road will be tarred during construction. The shaft complex will consist of an incline shaft for material and coal extraction, as well as a vertical shaft for ventilation, personnel and small material access. Appropriate infrastructure will be situated at the site – e.g. overburden stockpile, pollution control dam, silo, ablation facilities and associated sewage treatment plant, access roads and other surface infrastructure.</p> <p>It is currently foreseen that only the No. 4 coal seam will be mined, which is on average 63m below surface with an average thickness of 4.90m. The preferred quality is in the lower two-thirds of the seam – this being the planned mining horizon. Coal will be extracted by means of traditional bord and pillar mining method. The proposed underground mining area is approximately 7 300 ha. The planned life of mine will be approximately 30-35 years.</p> <p>Coal will be transported from the shaft complex via an overland conveyor belt (approximately 18 km) to the Elders Colliery, from where the coal will be further transported to Goedehoop Colliery for processing and distribution. There will be no processing or storage of discard at the Alexander shaft complex.</p>	

NAME OF ACTIVITY	Aerial extent of the Activity Ha or m ²	LISTED ACTIVITY (Mark with an X where applicable or affected)	APPLICABLE LISTING NOTICE (GNR 544, GNR 545 or GNR 546)	WASTE MANAGEMENT AUTHORISATION (Indicate whether an authorisation is required in terms of the Waste Management Act). (Mark with an X)
(E.g. For prospecting - drill site, site camp, abutment facility, accommodation, equipment storage, sample storage, site office, access route etc...etc...etc E.g. for mining - excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, abutment, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc... etc... etc.)			GNR 984 (Activity 17); GNR 984 (Activity 27); GNR 985 (Activity 4); GNR. 985 (Activity 12); GNR 985 (Activity 15); GNR 985 (Activity 18).	
Widening of existing gravel road.	TBA	X	GNR. 983 (Activity 28); GNR. 983 (Activity 56); GNR. 984 (Activity 17); GNR. 985 (Activity 12).	Not applicable.
Loading, hauling and transportation of run of mine (ROM), product and materials.	Loading and hauling within ~ 220ha mine surface infrastructure area. Transportation via overland conveyor ~ 100ha.	X	GNR 983 (Activity 27); GNR 983 (Activity 28); GNR 984 (Activity 15); GNR 984 (Activity 17); GNR 985 (Activity 12); GNR 985 (Activity 15).	Not applicable.
Temporary overburden waste rock dump (WRD)/stockpile and berms.	<ul style="list-style-type: none"> • WRD (TBA); • Waste rock berms (TBA). 	X	GNR 983 (Activity 27); GNR 983 (Activity 28); GNR 984 (Activity 6); GNR 984 (Activity 15); GNR 984 (Activity 17); GNR 985 (Activity 12); GNR 985 (Activity 15).	X
Establishment of waste/salvage yard.	This is located within the shaft complex area which forms part of the ~ 120ha of disturbance.	Not applicable.	Not applicable.	X
Establishment of water supply boreholes.	TBA	X	GNR. 983 (Activity 27); GNR. 983 (Activity 28); GNR. 984 (Activity 15); GNR. 984 (Activity 17); GNR. 985 (Activity 12).	Not applicable.
Establishment of sewage and water treatment plants.	<ul style="list-style-type: none"> • Sewage treatment plant (TBA); • Water treatment plant (TBA). 	X	GNR 983 (Activity 10); GNR 983 (Activity 25);	Not applicable.

NAME OF ACTIVITY	Aerial extent of the Activity Ha or m ²	LISTED ACTIVITY	APPLICABLE LISTING NOTICE	WASTE MANAGEMENT AUTHORISATION
(E.g. For prospecting - drill site, site camp, ablation facility, accommodation, equipment storage, sample storage, site office, access route etc...etc...etc E.g. for mining - excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablation, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc... etc... etc.)		(Mark with an X where applicable or affected)	(GNR 544, GNR 545 or GNR 546)	(Indicate whether an authorisation is required in terms of the Waste Management Act) (Mark with an X)
Stormwater controls and water holding facilities: <ul style="list-style-type: none"> • Water supply and reticulation pipelines (potable water and sewage effluent pipelines) • Raw water tank; • Potable water storage tank; • Fire water tank; • Bulk process water storage tank; • Recycled water ponds/pollution control dam; and • Stormwater management facilities (e.g. drains & berms). 	Stormwater controls and water holding facilities: <ul style="list-style-type: none"> • Water supply and reticulation pipelines (potable water, process water and sewage effluent pipelines) (TBA); • Raw water tank (TBA); • Potable water storage tank (TBA); • Fire water tank (TBA); • Bulk process water storage tank (TBA); • Recycled water ponds/pollution control dam (TBA); and • Stormwater management facilities (e.g. drains & berms) (TBA). 	X	GNR 983 (Activity 27); GNR 983 (Activity 28); GNR 983 (Activity 30); GNR 984 (Activity 15); GNR 984 (Activity 17); GNR 985 (Activity 12); GNR 985 (Activity 15).	Not applicable.
Use of generators.	TBA.	X	GNR 983 (Activity 2); GNR 983 (Activity 27); GNR 983 (Activity 28); GNR 984 (Activity 15); GNR 984 (Activity 17); GNR 985 (Activity 12).	Not applicable.
Establishment of proposed sub-station.	Located within shaft complex area as described above.	X	GNR 983 (Activity 11); GNR 983 (Activity 27); GNR 983 (Activity 28); GNR 984 (Activity 15); GNR 984 (Activity 17);	Not applicable.

NAME OF ACTIVITY	Aerial extent of the Activity Ha or m ²	LISTED ACTIVITY	APPLICABLE LISTING NOTICE	WASTE MANAGEMENT AUTHORISATION
<p>(E.g. For prospecting - drill site, site camp, abatement facility, accommodation, equipment storage, sample storage, site office, access route etc...etc...etc E.g. for mining, excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, abatement stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc... etc... etc.)</p> <p>Establishment of supporting infrastructure:</p> <ul style="list-style-type: none"> • Fencing; • Incline shaft; • Vertical shaft and ventilation fans; • Overland conveyor and surge silo; • Topsoil stockpiles and berms; • Mini sub-station (Eskom yard); • Power lines; • Change house; • Lighting masts; • Administrative block (including mine offices, kitchen, canteen, training centre, mustering/gathering centre and clinic/emergency room); • Control room; • Car park/ Bus stop and shelter; • Security gate and office; • Workshop and washbay/ cable workshop; • Stores; • Borrow pits; • Lamp rooms; and • Flammable store. <p>Establishment of fuel storage facility.</p>	<p>Establishment of supporting infrastructure:</p> <ul style="list-style-type: none"> • Fencing (TBA); • Incline shaft (TBA); • Vertical shaft and ventilation fans (TBA); • Overland conveyor and surge silo (TBA); • Topsoil stockpiles and berms (TBA); • Mini sub-station (Eskom yard) (TBA); • Power lines (TBA); • Change house (TBA); • Lighting masts (TBA); • Administrative block (including mine offices, kitchen, canteen, training centre, mustering/gathering centre and clinic/emergency room) (TBA); • Control room (TBA); • Car park/ Bus stop and shelter (TBA); • Security gate and office (TBA); • Workshop and washbay/ cable workshop (TBA); • Stores (TBA); • Borrow pits (TBA); • Lamp rooms (TBA); and • Flammable store (TBA). <p>TBA.</p>	<p>X</p>	<p>GNR 985 (Activity 12); GNR 983 (Activity 19); GNR 983 (Activity 27); GNR 983 (Activity 28); GNR 983 (Activity 30); GNR 984 (Activity 3); GNR 984 (Activity 7); GNR 984 (Activity 15); GNR 984 (Activity 17); GNR 985 (Activity 1); GNR 985 (Activity 12); GNR 985 (Activity 14); GNR 985 (Activity 15).</p>	<p>(Indicate whether an authorisation is required in terms of the Waste Management Act) (Mark with an X)</p> <p>Not applicable.</p>
<p>Establishment of fuel storage facility.</p>	<p>TBA.</p>	<p>X</p>	<p>GNR 983 (Activity 14); GNR 983 (Activity 27); GNR 983 (Activity 28); GNR 984 (Activity 4); GNR 984 (Activity 15);</p>	<p>Not applicable.</p>

NAME OF ACTIVITY	Aerial extent of the Activity Ha or m ²	LISTED ACTIVITY	APPLICABLE LISTING NOTICE	WASTE MANAGEMENT AUTHORISATION
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			<p>GNR 985 (Activity 10); GNR 985 (Activity 12).</p>	

6. PUBLIC PARTICIPATION

(Provide details of the public participation process proposed for the application as required by Regulation.

Details of the Public Participation process to be followed.

6.1.1. IDENTIFICATION OF INTERESTED AND AFFECTED PARTIES TO BE CONSULTED

IDENTIFICATION CRITERIA	Mark with an X where applicable	
	YES	NO
Will the landowner be specifically consulted?	X	
Will the lawful occupier on the property other than the Landowner be consulted?	X	
Will a tribal authority or host community that may be affected be consulted?	X	
Will recipients of land claims in respect of the area be consulted?	X	
Will the landowners or lawful occupiers of neighbouring properties been identified?	X	
Will the local municipality be consulted?	X	
Will the Authority responsible for power lines within 100 metres of the area be consulted?	X	
Will Authorities responsible for public roads or railway lines within 100 metres of the area applied for be consulted?	X	
Will authorities responsible for any other infrastructure within 100 metres of the area applied for be consulted? (Specify)		X
Will the Provincial Department responsible for the environment be consulted?	X	
Will all of the parties identified above be provided with a description of the proposed mining /prospecting operation as referred above?	X	
Will all the parties identified above be requested in writing to provide information as to how their interests (whether it be socio-economic, cultural, heritage or environmental) will be affected by the proposed mining project?	X	
Other, Specify	Not Applicable	

6.1.2. DETAILS OF THE ENGAGEMENT PROCESS TO BE FOLLOWED

<p>Steps to be taken to notify interested and affected parties (Describe the process to be undertaken to consult interested and affected parties including public meetings and one on one consultations. NB the affected parties must be specifically consulted regardless of whether or not they attended public meetings. Photographs of notice boards, and copies of advertisements and notices notifying potentially interested and affected parties of the proposed application must be attached as Appendix)</p>	<p>PROVIDE DESCRIPTION HERE</p> <p>The proposed public consultation process is in accordance with the requirements of Chapter 6 of the EIA Regulations, 2014 and is outlined in Table 1 below. The aim of the proposed public consultation process is to co-ordinate a process through which interested and affected parties (IAPs) are informed of the proposed project and environmental impact assessment process and are provided with an opportunity to provide input into the project plan, the assessment and proposed mitigation measures.</p> <p>Table 1: Proposed Public Participation Process</p> <table border="1"> <thead> <tr> <th>Task</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td colspan="2">Notification - regulatory authorities and IAPs</td> </tr> <tr> <td>DMR application</td> <td>Submission of the application form for environmental authorisation and the waste management license to the Department of Mineral Resources.</td> </tr> <tr> <td>Notification of the land claims commissioner</td> <td>The land claims commissioner was consulted in order to verify if any land claims have been lodged on the project area.</td> </tr> <tr> <td>Social scan</td> <td> <p>A social scan of areas surrounding the proposed project area was conducted by SLR. The purpose of the social scan was as follows:</p> <ul style="list-style-type: none"> To identify relevant landowners, land occupiers, relevant ward councillors, municipalities, organs of state, regulatory authorities and other interested and affected parties; To obtain contact details for IAPs; To identify appropriate communication structures; To inform IAPs of the proposed project, upcoming public consultation process and associated scoping, and EIA and Environmental Management Programme (EMP) process. <p>One output of the social scan is an IAP database which will be updated on an on-going basis throughout the environmental impact assessment process.</p> </td> </tr> <tr> <td>Distribution of the Project Notification Letter</td> <td>A background information notification letter was compiled for the proposed project. The purpose of the letter was to inform IAPs and authorities about the proposed project, the environmental impact assessment process, environmental attributes, possible environmental impacts and means of inputting into the environmental impact assessment process. The letter was made available in English, Zulu and Afrikaans.</td> </tr> <tr> <td>Site notices</td> <td>Laminated A2 site notices (in English, Zulu and Afrikaans) were placed at key conspicuous positions by SLR in and around the proposed project area.</td> </tr> <tr> <td>Newspaper advertisements</td> <td>Block advertisements were placed in the National Gazette and two local newspapers.</td> </tr> <tr> <td colspan="2">Scoping stage meetings</td> </tr> <tr> <td>Information-</td> <td>Four public scoping meetings will be held.</td> </tr> </tbody> </table>	Task	Description	Notification - regulatory authorities and IAPs		DMR application	Submission of the application form for environmental authorisation and the waste management license to the Department of Mineral Resources.	Notification of the land claims commissioner	The land claims commissioner was consulted in order to verify if any land claims have been lodged on the project area.	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	sharing scoping meeting	<p>Focused meetings will also be held with the relevant land owners and the farm workers. The purpose of the meetings will be as follows:</p> <ul style="list-style-type: none"> • To provide an overview of the proposed project; • To provide an overview of the environmental impact assessment process that will be undertaken for the proposed project; • To provide an overview and obtain input on the existing status of the environment; • To outline and obtain input on impacts identified for the proposed project; • To record any comments and issues raised. These issues and concerns will be used to inform the Plan of Study for the EIA Phase; and • Agree on the way forward and the logistics for report distribution.
	Regulatory authority scoping meeting	<p>A regulatory authorities meeting will be held. In addition to this, a site inspection will take place after the meeting. The purpose of the meeting will be as follows:</p> <ul style="list-style-type: none"> • To provide an overview of the proposed project; • To provide an overview of the environmental impact assessment process that will be undertaken for the proposed project; • To provide an overview and obtain input on the existing status of the environment; • To outline and obtain input on impacts identified for the proposed project; • To record any comments and issues raised. These issues and concerns will be used to inform the Plan of Study for the EIA Phase; and • Agree on the way forward and the logistics for report distribution.
Review of scoping report		
	Public review of scoping report	<p>The draft scoping report will be made available for public review (for 30 days). Summaries of the scoping report will be made available to all IAPs registered on the public involvement database via email, post and hand delivery. In addition, IAPs will be notified when the scoping report will be available for review via SMS. Electronic copies of the scoping report will be made available on request.</p>
	Regulatory authority review of scoping report	<p>The draft scoping report will be made available for review by regulatory authorities registered on the public involvement database for a period of 30 days.</p> <p>The final scoping report will be made available for review by the DMR. The final scoping report will include any comments received from IAPs and regulatory authorities during the review of the draft scoping report.</p>
Review of EIA and EMP		
	Public review of the EIA and EMP report	<p>Copies of the draft EIA and EMP report will be made available for public review (for 30 days) and comment at venues agreed upon with IAPs at the</p>

		public scoping meetings. In addition to this, summaries of the EIA and EMP report will be made available to all IAPs registered on the public involvement database via email, post and hand delivery. In addition, IAPs will be notified when the EIA and EMP report will be available for review via SMS. Electronic copies of the EIA and EMP report will be made available on request.
	Public feedback meeting	Public feedback meeting(s) will be held if deemed necessary. The purpose of the public feedback meeting(s) will be to provide IAPs with the opportunity to raise final issues in a meeting situation.
	Regulatory authority review of the EIA and EMP report	Copies of the draft EIA and EMP report will be made available for review by regulatory authorities registered on the public involvement database for a period of 30 days. The final EIA and EMP report will be made available for review by the DMR. The final EIA and EMP report will include any comments received from IAPs and regulatory authorities during the review of the draft EIA and EMP report.
Information to be provided to Interested and Affected Parties.	<p>Compulsory</p> <ul style="list-style-type: none"> • The site plan; • List of activities to be authorised; • Scale and extent of activities to be authorised; • Typical impacts of activities to be authorised (e.g. surface disturbance, dust, noise, drainage, fly rock etc.); • The duration of the activity; and • Sufficient detail of the intended operation to enable them to assess what impact the activities will have on them or on the use of their land. <p>Other, specify: Not Applicable</p>	
Information to be required from Interested and Affected Parties.	<p>Compulsory</p> <ul style="list-style-type: none"> • To provide information on how they consider that the proposed activities will impact on the environment and/or their socio-economic conditions. • To provide written responses stating their suggestions to mitigate the anticipated impacts of each activity. • To provide information on current land uses and their location within the area under consideration. • To provide information on the location of environmental features on site to make written proposals as to how and to what standard the impacts on site can be remedied. • To mitigate the potential impacts on the environment and/or their socio economic conditions to make proposals as to how the potential impacts on their infrastructure can be managed, avoided or remedied). <p>Other, Specify: Not Applicable</p>	

7. Description of the assessment process to be undertaken

ITEM	DESCRIPTION														
<p>Environmental attributes. Describe how the Environmental attributes associated with the development footprint will be determined.</p>	<p>Environmental attributes associated with the proposed project will be determined through site visits, the social scan, consideration of the project description, site layout and specialists studies.</p> <p>Potential identified environmental attributes will be discussed at the public and regulatory authorities meetings. Input on the environmental attributes will continue to be obtained from IAPs and regulatory authorities during the consultation and report review process.</p>														
<p>Identification of impacts and risks. (Describe the process that will be used to identify impacts and risks.</p>	<p>Potential environmental and social impacts associated with the proposed project will be determined through site visits, the social scan, consideration of the project description, site layout and specialists studies.</p> <p>Potential identified environmental and social impacts will be discussed at the public and regulatory authorities meetings. Input on the environmental and social impacts will continue to be obtained from IAPs and regulatory authorities during the consultation and report review process.</p>														
<p>Consideration of alternatives. Describe how alternatives, and in particular the alternatives to the proposed site layout and possible alternative methods or technology to be applied will be determined.</p>	<p>The main project alternatives to be considered include:</p> <ul style="list-style-type: none"> • Property or locality; • Type of activity; • Design or layout; • Technology; • Operational aspects; and • No-go alternative. <p>The alternatives will be assessed in the scoping report using a basic alternatives matrix that considers economic, environmental and technical factors.</p>														
<p>Process to assess and rank impacts. Describe the process to be undertaken to identify, assess and rank the impacts and risks each individual activity.</p>	<p>The proposed method for the assessment of environmental issues is set out in the table below. This assessment methodology enables the assessment of environmental issues including: cumulative impacts, the severity of impacts (including the nature of impacts and the degree to which impacts may cause irreplaceable loss of resources), the extent of the impacts, the duration and reversibility of impacts, the probability of the impact occurring, and the degree to which the impacts can be mitigated.</p> <p>Each potential impact will be assessed using the following criteria: <i>Note: Part A provides the definition for determining impact consequence (combining intensity, spatial scale and duration) and impact significance (the overall rating of the impact). Impact consequence and significance are determined from Part B and C. The interpretation of the impact significance is given in Part D.</i></p> <table border="1" data-bbox="469 1375 1406 1977"> <thead> <tr> <th colspan="3" data-bbox="469 1375 1406 1451">PART A: DEFINITION AND CRITERIA*</th> </tr> </thead> <tbody> <tr> <td data-bbox="469 1451 794 1496">Definition of SIGNIFICANCE</td> <td colspan="2" data-bbox="794 1451 1406 1496">Significance = consequence x probability</td> </tr> <tr> <td data-bbox="469 1496 794 1568">Definition of CONSEQUENCE</td> <td colspan="2" data-bbox="794 1496 1406 1568">Consequence is a function of intensity, spatial extent and duration</td> </tr> <tr> <td data-bbox="469 1568 695 1977" rowspan="2">Criteria for ranking of the INTENSITY of environmental impacts</td> <td data-bbox="695 1568 794 1792">VH</td> <td data-bbox="794 1568 1406 1792">Severe change, disturbance or degradation. Associated with severe consequences. May result in severe illness, injury or death. Targets, limits and thresholds of concern continually exceeded. Substantial intervention will be required. Vigorous/widespread community mobilization against project can be expected. May result in legal action if impact occurs.</td> </tr> <tr> <td data-bbox="695 1792 794 1977">H</td> <td data-bbox="794 1792 1406 1977">Prominent change, disturbance or degradation. Associated with real and substantial consequences. May result in illness or injury. Targets, limits and thresholds of concern regularly exceeded. Will definitely require intervention. Threats of community action. Regular complaints can be expected when the impact takes place.</td> </tr> </tbody> </table>	PART A: DEFINITION AND CRITERIA*			Definition of SIGNIFICANCE	Significance = consequence x probability		Definition of CONSEQUENCE	Consequence is a function of intensity, spatial extent and duration		Criteria for ranking of the INTENSITY of environmental impacts	VH	Severe change, disturbance or degradation. Associated with severe consequences. May result in severe illness, injury or death. Targets, limits and thresholds of concern continually exceeded. Substantial intervention will be required. Vigorous/widespread community mobilization against project can be expected. May result in legal action if impact occurs.	H	Prominent change, disturbance or degradation. Associated with real and substantial consequences. May result in illness or injury. Targets, limits and thresholds of concern regularly exceeded. Will definitely require intervention. Threats of community action. Regular complaints can be expected when the impact takes place.
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			M	Moderate change, disturbance or discomfort. Associated with real but not substantial consequences. Targets, limits and thresholds of concern may occasionally be exceeded. Likely to require some intervention. Occasional complaints can be expected.			
			L	Minor (Slight) change, disturbance or nuisance. Associated with minor consequences or deterioration. Targets, limits and thresholds of concern rarely exceeded. Require only minor interventions or clean-up actions. Sporadic complaints could be expected.			
			VL	Negligible change, disturbance or nuisance. Associated with very minor consequences or deterioration. Targets, limits and thresholds of concern never exceeded. No interventions or clean-up actions required. No complaints anticipated.			
			VL+	Negligible change or improvement. Almost no benefits. Change not measurable/will remain in the current range.			
			L+	Minor change or improvement. Minor benefits. Change not measurable/will remain in the current range. Few people will experience benefits.			
			M+	Moderate change or improvement. Real but not substantial benefits. Will be within or marginally better than the current conditions. Small number of people will experience benefits.			
			H+	Prominent change or improvement. Real and substantial benefits. Will be better than current conditions. Many people will experience benefits. General community support.			
			VH+	Substantial, large-scale change or improvement. Considerable and widespread benefit. Will be much better than the current conditions. Favourable publicity and/or widespread support expected.			
		Criteria for ranking the DURATION of impacts	VL	Very short, always less than a year.			
			L	Short-term, occurs for more than 1 but less than 5 years.			
			M	Medium-term, 5 to 10 years.			
			H	Long term, between 10 and 20 years. (Likely to cease at the end of the operational life of the activity)			
			VH	Very long, permanent, +20 years (Irreversible. Beyond closure)			
		Criteria for ranking the EXTENT of impacts	VL	A portion of the site.			
			L	Whole site.			
			M	Beyond the site boundary, affecting immediate neighbours			
			H	Local area, extending far beyond site boundary.			
			VH	Regional/National			
PART B: DETERMINING CONSEQUENCE							
SEVERITY = VL							
DURATION	Very long	VH	Medium	Medium	Medium	High	High
	Long term	H	Low	Medium	Medium	Medium	High
	Medium term	M	Low	Low	Medium	Medium	Medium
	Short term	L	Very low	Low	Low	Medium	Medium

	Very short	VL	Very low	Low	Low	Low	Medium
SEVERITY = L							
DURATION	Very long	VH	Medium	Medium	High	High	High
	Long term	H	Medium	Medium	Medium	High	High
	Medium term	M	Low	Medium	Medium	Medium	High
	Short term	L	Low	Low	Medium	Medium	Medium
	Very short	VL	Very low	Low	Low	Medium	Medium
SEVERITY = M							
DURATION	Very long	VH	Medium	High	High	High	Very High
	Long term	H	Medium	Medium	High	High	High
	Medium term	M	Medium	Medium	Medium	High	High
	Short term	L	Low	Medium	Medium	Medium	High
	Very short	VL	Very low	Low	Medium	Medium	Medium
SEVERITY = H							
DURATION	Very long	VH	High	High	High	Very High	Very High
	Long term	H	Medium	High	High	High	Very High
	Medium term	M	Medium	Medium	High	High	High
	Short term	L	Medium	Medium	Medium	High	High
	Very short	VL	Low	Medium	Medium	Medium	High
SEVERITY = VH							
DURATION	Very long	VH	High	High	Very High	Very High	Very High
	Long term	H	High	High	High	Very High	Very High
	Medium term	M	Medium	High	High	High	Very High
	Short term	L	Medium	Medium	High	High	High
	Very short	VL	Low	Medium	Medium	High	High
			VL	L	M	H	VH
			A portion of the site	Whole site	Beyond the site boundary, affecting immediate neighbours	Local area, extending far beyond site boundary.	Regional / National
EXTENT							

PART C: DETERMINING SIGNIFICANCE

PROBABILITY (of exposure to impacts)	Definite/Continuous	VH	Medium	High	High	Very High	Very High
	Probable	H	Medium	Medium	High	High	Very High
	Possible/frequent	M	Low	Medium	Medium	High	High
	Conceivable	L	Low	Low	Medium	Medium	High
	Unlikely/improbable	VL	Very low	Low	Low	Medium	Medium
			VL	L	M	H	VH
CONSEQUENCE							
PART D: INTERPRETATION OF SIGNIFICANCE							
Significance	Decision guideline						
Very High	Potential fatal flaw unless mitigated to lower significance.						
High	It must have an influence on the decision. Substantial mitigation will be required.						
Medium	It should have an influence on the decision. Mitigation will be required.						
Low	Unlikely that it will have a real influence on the decision. Limited mitigation is likely to be required.						
Very Low	It will not have an influence on the decision. Does not require any mitigation						
*VH = very high, H = high, M= medium, L= low and VL= very low and + denotes a positive impact.							
Contribution of specialist reports Describe how specialist reports, if required, will be taken into consideration and inform the impact identification, assessment and remediation process.	Specialist studies will be conducted where warranted on potential environmental and social impacts. In general, specialist reports will include the following information: <ul style="list-style-type: none"> • The characterisation of the baseline environment; • The identification and assessment of potential impacts; • The development of mitigation measures; and • Re-assess the potential impacts considering the management and mitigation measures. The results of the specialist studies will be used to understand some of the potential impacts and how to mitigate these potential impacts. The results of the studies will be summarised in the EIA and will be used to develop the EMP. Full copies of the specialist reports will be attached to the EIA and EMP report. <p>Proposed specialist studies include but are not limited to: geochemistry, soils, ecology, surface water, groundwater, air, noise, traffic, visual, blasting, heritage, social, economic.</p>						
Determination of impact management objectives and outcomes. Describe how impact management objectives will be determined for each activity to address the potential impact at source, and how the impact management outcomes will be aligned with standards.	The EIA project team (including the relevant specialists) will determine the impact management objectives in consultation with the technical team in consideration of the relevant South African Standards and guidelines.						

8. OTHER AUTHORISATIONS REQUIRED

LEGISLATION	Mark with an X where applicable			
	AUTHORISATION REQUIRED		APPLICATION SUBMITTED	
	YES	NO	YES	NO
SEMA s				
National Environmental Management: Air Quality Act		X		
National Environmental Management: Biodiversity Act	X			X
National Environmental Management: Integrated Coastal Management Act		X		
National Environmental Management: Protected Areas Act		X		
National Environmental Management: Waste Act	X		X	
National legislation				
Mineral Petroleum Development Resources Act	X		X	
National Water Act	X			X
National Heritage Resources Act		X		
Others: Please specify - Not Applicable				

Please provide proof of submission of applications in Appendix 5.

In the event that an authorization in terms of the National Environmental Waste Management Act is required for any of the activities applied for please state so clearly in order for such an authorisation to be considered as part of this application.

The proposed project will trigger listed activities in terms of the National Environmental Management Waste Act No. 59 of 2008 (NEM:WA). Further details of possible activities are provided in the table below:

Listed activity in terms of the NEM:WA	Description
Category A 3(2)	<p>The sorting, shredding, grinding, crushing, screening or bailing of general waste at a facility that has an operational area in excess of 1000 m².</p> <p>Various waste streams will be sorted before being removed by a contractor to a licensed waste site or recycling facility. These may include metals, wood, plastic, and glass. The quantities of waste to be sorted during construction are uncertain but are likely to be more than one ton of waste per day. During the operational phase, the quantities will change with the ramping up of mining activities and is assumed to be more than one ton per day. The recycling and reuse technologies may change over the life of the Alexander project.</p>
Category A 3(12)	<p>The construction of a facility for a waste management activity listed in Category A of this Schedule (not in isolation to associated waste management activity).</p> <p>Category A activities apply.</p>
Category B 4(1)	<p>The storage of hazardous waste in lagoons excluding storage of effluent, wastewater or sewage.</p> <p>A reverse osmosis water treatment plant with a capacity of 4,000m³ of water per day will be developed in the area to treat water produced by the Alexander project.</p> <p>Possible brine and gypsum storage at mobile water treatment plant (depending on treatment technology). Brine and gypsum will be removed by a reputable waste contractor for disposal at a licensed facility.</p>
Category B 4(2)	<p>The reuse or recycling of hazardous waste in excess of 1 ton per day,</p>

	<p>excluding reuse or recycling that takes place as an integral part of an internal manufacturing process within the same premises.</p> <p>Total capacity of facility to recycle hazardous waste on and around the mine site might exceed 1 ton (waste from the WRD for back-fill of shaft during rehabilitation and any waste which has been processed through the water treatment plant).</p>
Category B 4(7)	<p>The disposal of any quantities of hazardous waste to land.</p> <p>The proposed project will require the establishment of a waste rock dump</p>
Category B 4(10)	<p>The construction of a facility for a waste management activity listed in Category B of this Schedule (not in isolation to associated waste management activity).</p> <p>Category B activities apply.</p>
Category B 4(11)	<p>The establishment or reclamation of a residue stockpile or residue deposit resulting from activities which require a mining right, exploration right or production right in terms of the Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002).</p> <p>The proposed project will require the establishment of a waste rock dump.</p>

9. DRAFT EMPR

For consultation purposes, provide a high level approach to the management of the potential environmental impacts of each of the activities applied for.

ACTIVITIES	PHASE (of operation in which activity will take place).	SIZE AND SCALE (of Disturbance)	TYPICAL MITIGATION MEASURES	COMPLIANCE WITH STANDARDS
<p>(E.g. For prospecting - drill site, site camp, abutment facility, accommodation, equipment storage, sample storage, site office, access route etc...etc...etc</p> <p>E.g. for mining, - excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, abutment, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc...etc...etc.)</p> <p>Selective clearing of vegetation in areas designated for surface infrastructure including the digging of foundations and trenches.</p>	<p>State, Planning and design, Pre-Construction Construction, Operational, Rehabilitation, Closure, Post closure.</p> <p>Construction; Operation.</p>	<p>(volumes, tonnages and hectares or m²)</p> <p>Approximately (~) 220ha (shaft complex ~ 120ha; overland conveyor ~ 100ha).</p>	<p>(E.g. storm water control, dust control, noise control, access control, rehabilitation etc...., etc....)</p> <ul style="list-style-type: none"> • Access control; • Implementation of soil conservation management plan and waste management plan; • Biodiversity controls and management plan; • Appropriate design and development of stormwater controls; • Dust control and monitoring; • Noise control and monitoring; • Visual controls; • Avoidance of heritage resources; • Implementation of a health policy, monitoring the development of informal settlements; • Closure planning to incorporate measures to achieve future land use plans; • Implementation of an emergency response procedure. 	<p>(A description of how each of the recommendations herein will comply with any prescribed environmental management standards or practices that have been identified by Competent Authorities)</p> <p>Not applicable.</p>
<p>Stripping and stockpiling topsoil and sub-soil and the</p>	<p>Construction; Operation; and</p>	<ul style="list-style-type: none"> • Topsoil stockpiles (To be announced (TBA)); 	<p>Not applicable.</p>	<p>Not applicable.</p>

ACTIVITIES	PHASE (of operation in which activity will take place).	SIZE AND SCALE (of Disturbance)	TYPICAL MITIGATION MEASURES	COMPLIANCE WITH STANDARDS
<p>(E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etc...etc...etc.</p> <p>E.g. for mining.- excavations, blasting, stockpiles, discard dumps or dams. Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc...etc...etc.)</p> <p>establishment of a topsoil stockpile area and berm.</p>	<p>State; Planning and design, Pre-Construction Construction, Operational, Rehabilitation, Closure, Post closure.</p> <p>Decommissioning</p>	<p>(volumes, tonnages and hectares or m²)</p> <ul style="list-style-type: none"> • Topsoil berms (TBA). 	<p>(E.g. storm water control, dust control, noise control, access control, rehabilitation etc..., etc..., etc...)</p> <ul style="list-style-type: none"> • Access control; • Implementation of soil conservation management plan and waste management plan; • Biodiversity controls, management plan and monitoring; • Appropriate design and development of stormwater controls; • Dust control and monitoring; • Noise control and monitoring; • Visual controls and concurrent rehabilitation; • Avoidance of heritage resources; • Implementation of a health policy, monitoring the development of informal settlements; • Closure planning to incorporate measures to achieve future land use plans; • Implementation of an emergency response procedure. 	<p>(A description of how each of the recommendations herein will comply with any prescribed environmental management standards or practices that have been identified by Competent Authorities)</p>
<p>Underground mining</p> <p>Backfilling the shaft void with waste rock.</p> <p>Temporary overburden</p>	<p>Operation</p> <p>Decommissioning; Closure.</p> <p>Construction;</p>	<p>~ 7,300ha.</p> <p>TBA</p> <ul style="list-style-type: none"> • WRD (TBA); 	<p>Not applicable.</p> <p>Comply with Section 21 of</p>	

ACTIVITIES	PHASE (of operation in which activity will take place).	SIZE AND SCALE (of Disturbance)	TYPICAL MITIGATION MEASURES	COMPLIANCE WITH STANDARDS
<p>(E.g. For prospecting - drill site, site camp, abutment facility, accommodation, equipment storage, sample storage, site office, access route etc...etc...etc.</p> <p>E.g. for mining, - excavations, blasting, stockpiles, discard dumps or dams. Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices; abutment, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc...etc...etc.)</p> <p>WRD/stockpile and berms.</p>	<p>State; Planning and design, Pre-Construction Construction, Operational, Rehabilitation, Closure, Post closure.</p>	<p>(volumes, tonnages and hectares or m²)</p> <ul style="list-style-type: none"> • Waste rock berms (TBA). 	<p>(Eg. storm water control, dust control, noise control, access control, rehabilitation etc.....etc.....)</p> <ul style="list-style-type: none"> • Implementation of soil conservation management plan and waste management plan; • Biodiversity controls, management plan and monitoring; • Appropriate design and development of stormwater controls and surface water monitoring; • Appropriate design and development of groundwater controls, groundwater monitoring and compensation for loss; • Dust control and monitoring; • Noise control and monitoring; • Visual controls and concurrent rehabilitation; • Avoidance of heritage resources; • Implementation of a health policy, monitoring the development of informal settlements; • Closure planning to incorporate measures to achieve future land use plans; • Implementation of an emergency response procedure. 	<p>(A description of how each of the recommendations herein will comply with any prescribed environmental management standards or practices that have been identified by Competent Authorities)</p> <p>the National Water Act No. 36 of 1998 (NWA) for water uses.</p> <p>Compliance with the NEM:WA for waste activities in terms of Regulation 921.</p> <p>Not applicable.</p>
<p>Establishment of supporting infrastructure:</p> <ul style="list-style-type: none"> • Fencing; • Incline shaft; • Vertical shaft and ventilation fans; • Overland conveyor and surge silo; • Topsoil stockpiles and berms; • Mini sub-station (Eskom yard); • Power lines; • Change house; • Lighting masts; • Administrative block (including mine offices, 	<p>Construction; Operation; Decommissioning; Closure.</p>	<p>Establishment of supporting infrastructure:</p> <ul style="list-style-type: none"> • Fencing (TBA); • Incline shaft (TBA); • Vertical shaft and ventilation fans (TBA); • Overland conveyor and surge silo (TBA); • Topsoil stockpiles and berms (TBA); • Mini sub-station (Eskom yard) (TBA); • Power lines (TBA); • Change house (TBA); • Lighting masts (TBA); • Administrative block (including mine offices, 		

ACTIVITIES	PHASE (of operation in which activity will take place).	SIZE AND SCALE (of Disturbance)	TYPICAL MITIGATION MEASURES	COMPLIANCE WITH STANDARDS
<p>(E.g. For prospecting - drill site, site camp, abutment facility, accommodation, equipment storage, sample storage, site office, access route etc...etc...etc.</p> <p>E.g. for mining,- excavations, blasting, stockpiles, discard dumps or dams. Loading, hauling and transport. Water supply dams and boreholes, accommodation, offices, abutment, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc...etc...etc.)</p> <ul style="list-style-type: none"> • kitchen, canteen, training centre, mustering/gathering centre and clinic/emergency room); • Control room; • Car park/ Bus stop and shelter; • Security gate and office; • Workshop and washbay/ cable workshop; • Stores; • Borrow pits; • Lamp rooms; and • Flammable store. 	<p>State: Planning and design, Pre-Construction Construction, Operational, Rehabilitation, Closure, Post closure.</p>	<p>(volumes, tonnages and hectares or m²)</p> <p>kitchen, canteen, training centre, mustering/gathering centre and clinic/emergency room (TBA);</p> <ul style="list-style-type: none"> • Control room (TBA); • Car park/ Bus stop and shelter (TBA); • Security gate and office (TBA); • Workshop and washbay/ cable workshop (TBA); • Stores (TBA); • Borrow pits (TBA); • Lamp rooms (TBA); and • Flammable store (TBA). 	<p>(Eg, storm water control, dust control, noise control, access control, rehabilitation etc....., etc.....)</p>	<p>(A description of how each of the recommendations herein will comply with any prescribed environmental management standards or practices that have been identified by Competent Authorities)</p>
<p>Blasting and drilling.</p>	<p>Construction</p>	<p>Not applicable.</p>	<ul style="list-style-type: none"> • Access control; • Dust control and monitoring; • Noise control and monitoring; • Avoidance of heritage resources; • Implementation of a health policy, monitoring the development of informal settlements; 	<p>Not applicable.</p>

ACTIVITIES	PHASE (of operation in which activity will take place).	SIZE AND SCALE (of Disturbance)	TYPICAL MITIGATION MEASURES	COMPLIANCE WITH STANDARDS
<p>(E.g. For prospecting - drill site, site camp, ablation facility, accommodation, equipment storage, sample storage, site office, access route etc., etc., etc.</p> <p>E.g. for mining - excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablation, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc., etc., etc.)</p>	<p>State; Planning and design, Pre-Construction Construction, Operational, Rehabilitation, Closure, Post closure.</p>	<p>(volumes, tonnages and hectares or m²)</p>	<p>(Eg. storm water control, dust control, noise control, access control, rehabilitation etc., etc., etc.)</p>	<p>(A description of how each of the recommendations herein will comply with any prescribed environmental management standards or practices that have been identified by Competent Authorities)</p>
<p>Establishment of sewage and waste water treatment plants.</p>	<p>Construction; Operation; Decommissioning; Closure.</p>	<ul style="list-style-type: none"> • Sewage treatment plant (TBA); • Water treatment plant (TBA). 	<p>settlements;</p> <ul style="list-style-type: none"> • Closure planning to incorporate measures to achieve future land use plans; • Implementation of an emergency response procedure. 	<p>Compliance with the NEM:WA for waste activities in terms of Regulation 921.</p> <p>Comply with Section 21 of the NWA for water uses.</p>
<p>Establishment of waste/salvage yard.</p>	<p>Construction; Operation; Decommissioning; Closure.</p>	<p>This is located within the shaft complex area which forms part of the ~120 ha of disturbance.</p>	<ul style="list-style-type: none"> • Infrastructure design and placement to avoid mineable resource; • Access control; • Implementation of soil conservation management plan and waste management plan; • Biodiversity controls, management plan and monitoring; • Appropriate design and development of stormwater controls and surface water monitoring; 	<p>Compliance with GNR 704 of the NWA for the separation of clean and dirty water system and design of dirty water systems not to spill more than once in 50 years.</p>
<p>Stormwater controls and water holding facilities:</p> <ul style="list-style-type: none"> • Water supply and reticulation pipelines (potable water, process water and sewage effluent pipelines); • Raw water tank; • Potable water storage tank; 	<p>Construction; Operation; Decommissioning; Closure.</p>	<p>Stormwater controls and water holding facilities:</p> <ul style="list-style-type: none"> • Water supply and reticulation pipelines (potable water, process water and sewage effluent pipelines) (TBA); 	<ul style="list-style-type: none"> • Appropriate design and development of groundwater controls, groundwater monitoring and compensation for loss; • Emissions monitoring; • Visual controls; • Avoidance of heritage resources; • Implementation of a health policy, 	<p>Compliance with GNR 704 of the NWA for the separation of clean and dirty water system and design of dirty water systems not to spill more than once in 50 years.</p>

ACTIVITIES	PHASE (of operation in which activity will take place).	SIZE AND SCALE (of Disturbance)	TYPICAL MITIGATION MEASURES	COMPLIANCE WITH STANDARDS
<p>(E.g. For prospecting - drill site, site camp, abutment facility, accommodation, equipment storage, sample storage, site office, access route etc., etc., etc.</p> <p>E.g. for mining - excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, abutment, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc...etc...etc.)</p> <ul style="list-style-type: none"> • Fire water tank; • Bulk process water storage tank; • Recycled water ponds/pollution control dam; and • Stormwater management facilities (e.g. drains & berms). 	<p>State; Planning and design, Pre-Construction Construction, Operational, Rehabilitation, Closure, Post closure.</p>	<p>(volumes, tonnages and hectares or m²)</p> <ul style="list-style-type: none"> • Raw water tank (TBA); • Potable water storage tank (TBA); • Fire water tank (TBA); • Bulk process water storage tank (TBA); • Recycled water ponds/pollution control dam (TBA); and • Stormwater management facilities (e.g. drains & berms) (TBA). 	<p>monitoring the development of informal settlements;</p> <ul style="list-style-type: none"> • Closure planning to incorporate measures to achieve future land use plans; • Implementation of an emergency response procedure. 	<p>Comply with Section 21 of the National Water Act No. 36 of 1998 for water uses.</p>
<p>Establishment of water supply boreholes</p>	<p>Construction; Operation; Decommissioning; Closure.</p>	<p>TBA</p>		
<p>Establishment of fuel storage facility.</p>	<p>Construction; Operation; Decommissioning; Closure.</p>	<p>TBA.</p>	<ul style="list-style-type: none"> • Infrastructure design and placement to avoid mineable resource; • Access control; • Implementation of soil conservation management plan and waste management plan; • Biodiversity controls, management plan and monitoring; 	<p>Not applicable.</p>

ACTIVITIES	PHASE (of operation in which activity will take place).	SIZE AND SCALE (of Disturbance)	TYPICAL MITIGATION MEASURES	COMPLIANCE WITH STANDARDS
<p>(E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etc...etc...etc</p> <p>E.g. for mining - excavations, blasting, stockpiles, discard dumps or dams. Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc...etc...etc.)</p>	<p>Stale: Planning and design, Pre-Construction Construction, Operational, Rehabilitation, Closure, Post closure.</p>	<p>(volumes, tonnages and hectares or m²)</p>	<p>(Eg. storm water control, dust control, noise control, access control, rehabilitation etc..., etc...,)</p> <ul style="list-style-type: none"> • Appropriate design and development of stormwater controls and surface water monitoring; • Appropriate design and development of groundwater controls, groundwater monitoring and compensation for loss; • Emissions monitoring; • Visual controls; • Avoidance of heritage resources; • Implementation of a health policy, monitoring the development of informal settlements; • Closure planning to incorporate measures to achieve future land use plans; • Implementation of an emergency response procedure. 	<p>(A description of how each of the recommendations herein will comply with any prescribed environmental management standards or practices that have been identified by Competent Authorities)</p>
<p>Use of generators and establishment of proposed sub-station.</p>	<p>Operation; Decommissioning; Closure.</p>	<ul style="list-style-type: none"> • Generators (TBA); • Sub-station located within shaft complex area as described above. 	<ul style="list-style-type: none"> • Infrastructure design and placement to avoid mineable resource; • Access control; • Implementation of soil conservation management plan and waste management plan; • Biodiversity controls, management plan and monitoring; 	<p>Not applicable.</p>

ACTIVITIES	PHASE (of operation in which activity will take place).	SIZE AND SCALE (of Disturbance)	TYPICAL MITIGATION MEASURES	COMPLIANCE WITH STANDARDS
<p>(E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etc...etc...etc E.g. for mining,- excavations, blasting, stockpiles, discard dumps or dams. Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc...etc...etc.)</p>	<p>State, Planning and design, Pre-Construction Construction, Operational, Rehabilitation, Closure, Post closure.</p>	<p>(volumes, tonnages and hectares or m²)</p>	<p>(Eg. storm water control, dust control, noise control, access control, rehabilitation etc..., etc....)</p> <ul style="list-style-type: none"> • Appropriate design and development of stormwater controls and surface water monitoring; • Appropriate design and development of groundwater controls and groundwater monitoring; • Emissions monitoring; • Noise control and monitoring; • Visual controls; • Avoidance of heritage resources; • Implementation of a health policy, monitoring the development of informal settlements; • Closure planning to incorporate measures to achieve future land use plans; • Implementation of an emergency response procedure. 	<p>(A description of how each of the recommendations herein will comply with any prescribed environmental management standards or practices that have been identified by Competent Authorities)</p>

10. CLOSURE PLAN

<p>In the space provided under each heading below, please provide a high level description of the plan for closure and the information that will be provided in the draft EMPr accompanying draft basic assessment report or environmental impact reports going forward.</p>	
<p>Baseline environment Describe how the baseline environment will be determined with the input of interested and affected parties and due cognizance of the current land uses and or existing biophysical environment</p>	<p>The baseline environment will be characterised by site observations and relevant specialist studies. The terms of reference for each specialist study will be provided in the scoping report. IAPs will have an input on the baseline environment at the public scoping meeting. IAPs will have a further opportunity to provide input on the baseline environment from the scoping, EIA and EMP reports, as well as any written comments submitted during the course of the environmental impact assessment process.</p>
<p>Closure objectives Describe the closure objectives and the extent to which they will be aligned to the baseline environment</p>	<p>Rehabilitation closure objectives and principles include the following:</p> <ul style="list-style-type: none"> • Environmental damage is minimised to the extent that they are acceptable to all parties involved. • The land is rehabilitated to achieve a condition approximating its natural state, or so that the envisaged end use of cultivated land is achieved. • All surface infrastructure will be removed from site after rehabilitation and the shaft cavity will be completely backfilled and sealed. • Mine closure is achieved efficiently, cost effectively and in compliance with the law. • The social and economic impacts resulting from mine closure are managed in such a way that negative socio-economic impacts are minimised.
<p>Rehabilitation Plan Describe the scale and aerial extent of the prospecting or mining listed activities to be authorised, including the anticipated prospecting or mining area at the time of closure, and confirm that a site rehabilitation plan drawn to a suitable scale will be provided in the draft EMPr to be submitted together with the draft EIR or Basic Assessment Report as the case may be.</p>	<p>The following infrastructure will be the subject of the rehabilitation plan:</p> <ul style="list-style-type: none"> • The shaft complex and associated infrastructure – including: <ul style="list-style-type: none"> ○ Access, Internal and Services roads ○ Power lines & Pipelines ○ Bulk storage for fuel ○ Ventilation shafts ○ Surface ROM and Stonedust silo ○ Fencing ○ Topsoil stockpiles ○ Overburden stockpiles ○ Pollution control dams ○ Sewage treatment plant ○ Boxcut / portal ○ Waste and scrap yard, Substation, Cable yard repair workshop & Washbay ○ Offices & Change houses • Conveyor Route and Servitude and associated infrastructure including: <ul style="list-style-type: none"> ○ Service Road ○ Powerline & Pipeline ○ Fencing <p>Current estimates are that the shaft area will occupy approximately 120 ha and the overland conveyor will occupy 100 ha.</p> <p>As the areas are all required for operational activities, there are limited opportunities for progressive rehabilitation. These activities will be closed and decommissioned once the reserve is depleted. Any areas not required for operational activities that may be disturbed during construction, will be progressively rehabilitated once these areas are no longer required to support operational activities.</p> <p>A site rehabilitation plan drawn at a suitable scale will be included with the submission of the authorisation documentation.</p>

<p>Rehabilitation Cost Describe how the rehabilitation cost will be determined and provide a preliminary estimate thereof</p>	<p>Activities to rehabilitate the areas disturbed by the project will be included as closure action plans in the authorisation documentation, with a Final Rehabilitation, Decommissioning and Closure Plan as considered in the NEMA Regulation 605, with this plan supported by a Risk Assessment as considered in Appendix 5 of Regulation 605. At this stage it is not envisaged that an Annual Rehabilitation Plan (as considered in Appendix 6) will be developed as part of the initial assessment. This is due to the fact that the mine is an underground operation and there will be limited opportunities to undertake annual rehabilitation activities early on in the project life. Only once the construction phase is complete (expected to last approximately 3 years), with construction impacts mitigated during the period as practicable, will it be practical to prepare an Annual Rehabilitation Plan.</p> <p>The costing of the implementation of the closure actions in the Final Rehabilitation, Decommissioning and Closure Plan will be undertaken using the approach described in the Department of Mineral Resources Guideline Document for the Evaluation of the Quantum of Closure Related Financial Provision Provided by a Mine, using prevailing rates for the assessment.</p> <p>The rehabilitation (mine closure) cost estimate is based on the removal of all civil, structural, mechanical, electrical, instrumentation and other related equipment and infrastructure. It furthermore allows for the reinstatement of the Alexander property to a land capability to be agreed with stakeholders, but likely to be similar to that which exists in the pre-mining environment.</p> <p>As design detail is not yet complete for the shafts, the estimate below is based on the closure of shafts similar to that anticipated at Alexander. The cost for rehabilitating the mine is currently estimated to be approximately R35,000.00.</p>
<p>Decommissioning Considering that rehabilitation must take place upon cessation of an activity, describe when each of activities applied for will be rehabilitated in terms of either the cessation of the individual activity or the cessation of the overall prospecting or mining activity.</p>	<p>All listed activities will cease at the end of operation. The estimated life of mine is ~ 35 years.</p>

SIGNATURE OF THE APPLICANT

Signature of the applicant / Signature on behalf of the applicant:

Name of company (if applicable):

Date:

**APPENDIX 1
DECLARATION OF THE EAP AND QUALIFICATIONS**

I, **Marline Medallie**, declare that –

General declaration:

- I act as the independent environmental practitioner in this application
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting environmental impact assessments, including knowledge of the Act, Regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, Regulations and all other applicable legislation;
- I will take into account, to the extent possible, the matters listed in regulation 8 of the Regulations when preparing the application and any report relating to the application;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- I will ensure that information containing all relevant facts in respect of the application is distributed or made available to interested and affected parties and the public and that participation by interested and affected parties is facilitated in such a manner that all interested and affected parties will be provided with a reasonable opportunity to participate and to provide comments on documents that are produced to support the application;
- I will ensure that the comments of all interested and affected parties are considered and recorded in reports that are submitted to the competent authority in respect of the application, provided that comments that are made by interested and affected parties in respect of a final report that will be submitted to the competent authority may be attached to the report without further amendment to the report;
- I will keep a register of all interested and affected parties that participated in a public participation process; and
- I will provide the competent authority with access to all information at my disposal regarding the application, whether such information is favourable to the applicant or not
- all the particulars furnished by me in this form are true and correct;
- will perform all other obligations as expected from an environmental assessment practitioner in terms of the Regulations; and
- I realise that a false declaration is an offence in terms of regulation 71 of the Regulations and is punishable in terms of section 24F of the Act.

Disclosure of Vested Interest (delete whichever is not applicable)

- I do not have and will not have any vested interest (either business, financial, personal or other) in the proposed activity proceeding other than remuneration for work performed in terms of the Regulations;

M. Blake

Signature of the environmental assessment practitioner:

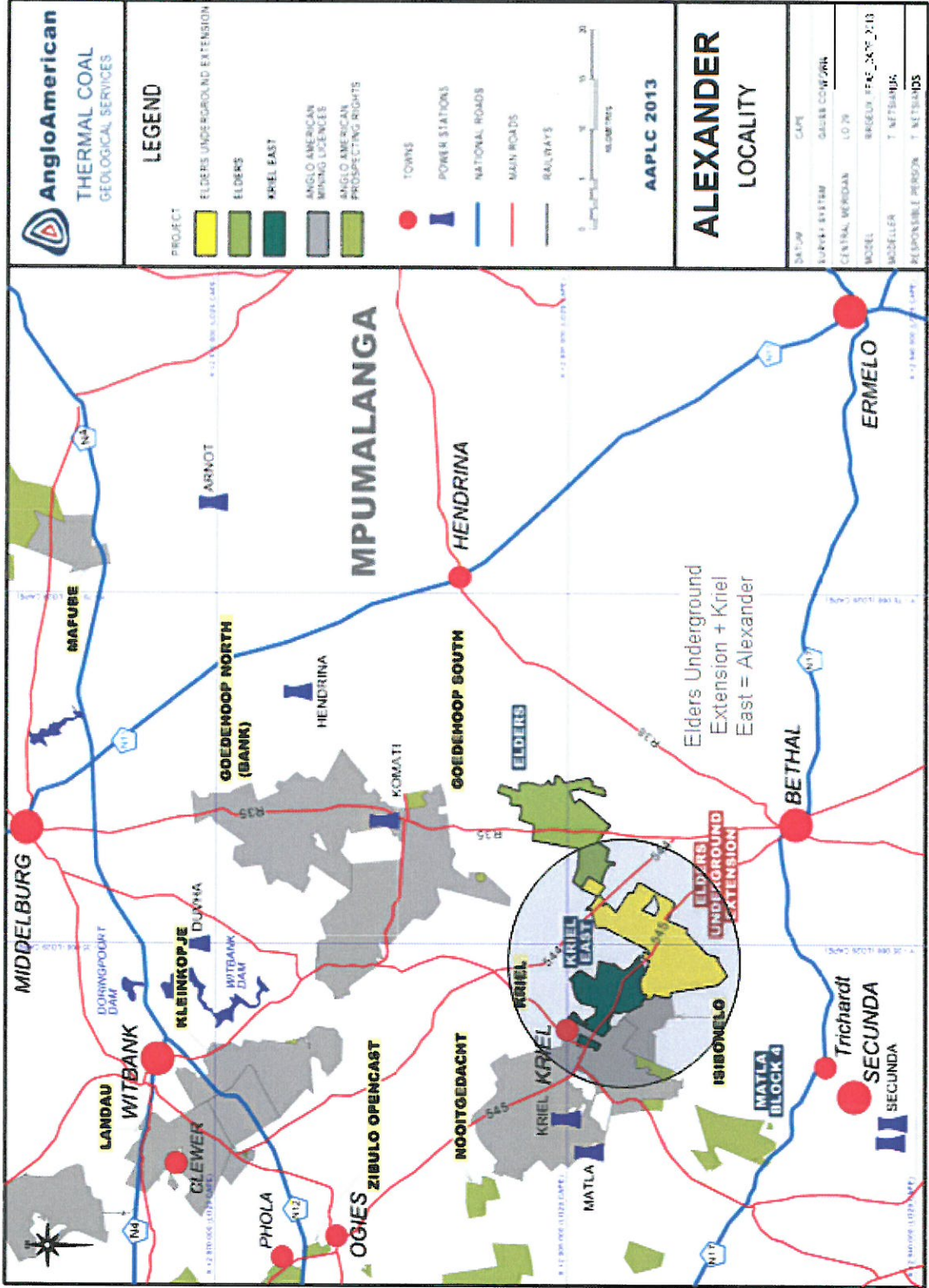
Supergistics Environmental Services

Name of company:

28 Oct 2016

Date:

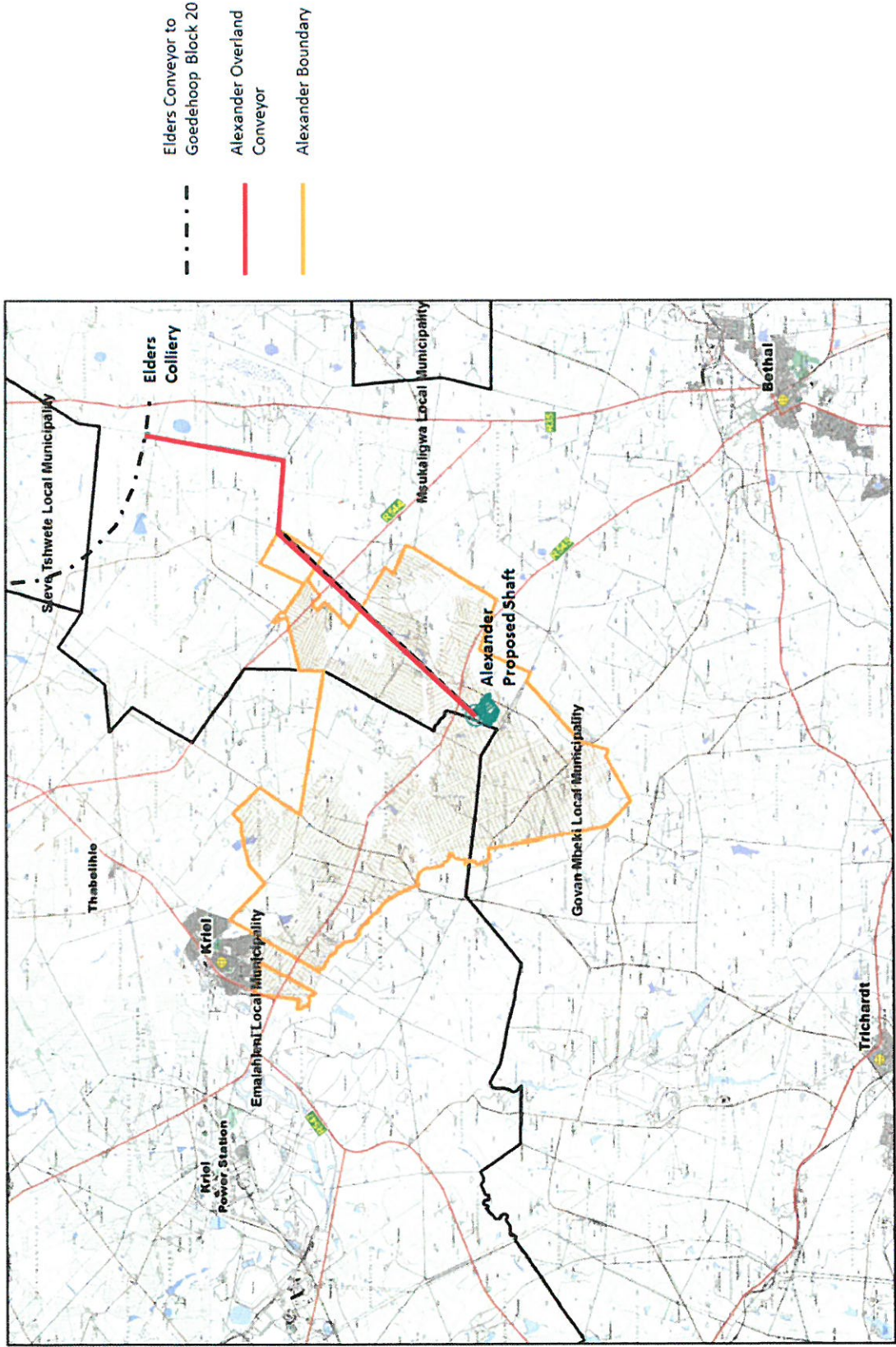
APPENDIX 2
SITE LOCALITY MAP



**APPENDIX 3
ENVIRONMENTAL AUTHORISATIONS OBTAINED FOR SAME PROPERTY**

Not applicable for this application

APPENDIX 4 PROPOSED SITE PLAN



**APPENDIX 5
PROOF OF MINING RIGHT APPLICATION**

- This submission is concurrent with the Mining Right Application, hence no MRA reference exists yet.

**APPENDIX 6
UNDERTAKING BY THE EAP**