

Project: Alexander Project (Application for a mining right and related environmental authorisations)  
 Meeting: Public Scoping Meeting  
 SLR Company: Synergistics Environmental Services (Part of SLR Consulting Pty Ltd.)  
 Date: 10 February 2016  
 Venue:



Name and Surname	Designation / Interest	Postal address	Contact numbers	E-mail	Signature
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Name and Surname	Designation / Interest	Postal address	Contact numbers	E-mail	Signature
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GEORGE N. KOS		3593/5	07228483513		



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M NKOSI		3593/skri	071823650		
M Mbuyobo		PKRIE	0798600027		Mbuyoba
J. DWAMINI		LOCATION 3277/KRIE	-	-	+
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Z. Sindane		ROODEBOSFARM			
Sarain		Sindane	0795849754		all

Project: Alexander Project (Application for a mining right and related environmental authorisations)

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Date: 10 February 2016

Venue: Kniel High School.



Name and Surname	Designation / Interest	Postal address	Contact numbers	E-mail	Signature
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Veronica Mawashi	resident Rooiblaar				+
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Name and Surname	Designation / Interest	Postal address	Contact numbers	E-mail	Signature
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Winky		2283 Kriel	0608233738		
Ndzimanda					
JUNE Mahlangu		3676 Kriel	0729523601		

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Venue:



Name and Surname	Designation / Interest	Postal address	Contact numbers	E-mail	Signature
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<i>Nomvula Mkhlongo</i>		<i>P.O. Box 2720</i>	<i>0795645880</i>		<i>[Signature]</i>
<i>Jeanne Mkhabela</i>		<i>2355 Mkhlongo</i>	<i>1825313072</i>		<i>[Signature]</i>
<i>Siyon Motti</i>		<i>P.O. Box 2720</i>	<i>0763265488</i>		<i>[Signature]</i>
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Name and Surname	Designation / Interest	Postal address	Contact numbers	E-mail	Signature
Charles Oetli		199 Nylsienstr. 0714541509		charoetli@telekom.ch	
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\* Anglo

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PETROS MANANGU	Councilor of Mogale City Municipality ward 26	12 Clewelyn Struats krel Farm	0780018923	Tinahojopie@gmail.com	
Christina Mahlange	Community Member	Roobloom Farms			EMMA
Emma Mahlange	Community Member	Roobloom Farms			X
APHA MASHWANE	Community Member	24 Victoria Road	0772648200		
Phisoa Sibane de Nurse	Community Member	Donstaden P.O. Box 148 Kriel 2271	074950331		
Mohlalo	Member		0724217987		NMokhele
WISMAN MAMATANILA	Community Member	2351 Mogale City Kriel	0747971020		

**APPENDIX 2: PRESENTATION**



**ENVIRONMENTAL IMPACT ASSESSMENT  
FOR THE PROPOSED ALEXANDER  
PROJECT**

**PUBLIC SCOPING MEETING**

**10 & 11 FEBRUARY 2016**

**AGENDA**

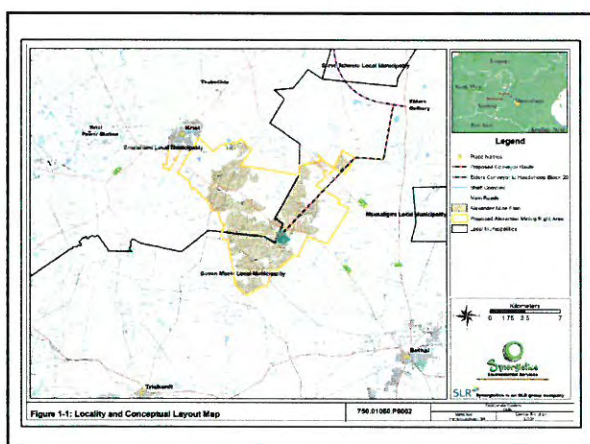
- Welcome and opening;
- Meeting protocol;
- Overview of the proposed project;
- Environmental process overview;
- Anticipated environmental impacts;
- Overview of the existing status of the environment;
- General discussion;
- Close.

**MEETING PROTOCOL**

- Please switch cell phones off or onto a silent setting.
- There will be a dedicated question and answer session.
- Before asking a question, please raise your hand and state your name clearly so that we may correctly record it in the minutes.
- This is a Scoping Meeting, and therefore the emphasis is on recording the questions and comments correctly, so that they may be addressed during the Environmental Impact Assessment (EIA). We do not have all the answers at this stage.

**OVERVIEW OF PROPOSED PROJECT (1)**

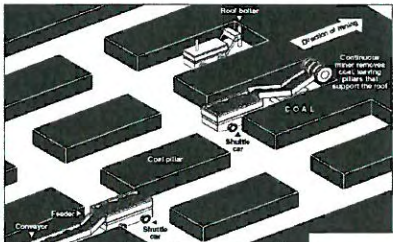
- Anglo American Inyosi Coal (Pty) Ltd (AAIC) is proposing to establish a new underground coal mine through the Alexander Project. The mine boundary is approximately 12 km northwest of Bethal and directly to the south and south-east of Kriel in the Mpumalanga Province.
- Within the Govan Mbeki (GMLM) and Emalahleni Local Municipalities (ELM).
- The proposed Alexander project will comprise the following associated surface infrastructure:
  - Waste rock dumps – shaft excavation material;
  - Topsoil stockpiles – shaft surface area;
  - Overland Run of Mine (ROM) conveyor; and
  - Mine related support facilities (offices etc.).




**OVERVIEW OF PROPOSED PROJECT (3)**

- **Technical details:**
  - Intend to mine the No. 4 Seam only – average depth 63m (range 20m to 125m), average thickness 4.90m over the intended mine layout. "Select" portion is in the lower 2/3 of the seam.
  - Intended market is Export market – through Richards Bay Coal Terminal.
  - Total area of the Mining Right Application area is 10,700ha; the proposed mine layout covers ~7,300ha. Shaft surface area ~120ha.
  - Overland conveyor to transport all ROM coal to Elders Colliery, and via Elders conveyor to Goedehoop. Overland conveyor is 18km long – servitude including service road is 55m wide, 100ha.
  - Design caters for an incline shaft system for men, material and coal transportation, and a vertical shaft primarily for ventilation purposes.
  - Mining method will be traditional Bord and Pillar, with Continuous Miner technology.

### OVERVIEW OF PROPOSED PROJECT (4)



**BORD AND PILLAR**



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### OVERVIEW OF PROPOSED PROJECT (5) OVERLAND CONVEYOR BELT



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### OVERVIEW OF PROPOSED PROJECT (6)

- **Mine Related Services:**
  - Water: Neighbouring Anglo mining operations, on-site boreholes (including dewatering), on-site water treatment plant or municipal water structures.
  - Power: Generators will be used as the primary power supply until the consumer substation has been constructed in order to supply the mine with power from Eskom.
  - Waste: General and hazardous waste collected on site, temporarily stored and disposed at off site permitted waste disposal facilities.
  - Sewage: Provision of a mobile sewage treatment plant.
  - Transport: Transportation of construction and operational materials to and from site will be by road. Transportation of ROM product will be by overland conveyor. Within the site boundary, internal and service roads, conveyors and pipelines will be used.

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### OVERVIEW OF PROPOSED PROJECT (7)

- **Staff and housing:**
  - Job opportunities: Approximately 500 *during construction*;
  - Housing: None on-site, workers to be accommodated in nearby towns.
- **Other facilities:**
  - Material storage and handling areas (run-of mine, fuel, lubricants, general and hazardous substances, explosives);
  - Water management (clean and dirty water dams, clean and dirty storm water controls);
  - Offices, change houses, ablutions, security facilities.

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### OVERVIEW OF PROPOSED PROJECT (8)

- **Timing:**
  - 3 years construction. Planned life of mine – approximately between 30 to 35 years, at ~6.0 Mtpa ROM.
- **Alternatives being considered include:**
  - Water supply (neighbouring Anglo mining operations, on-site boreholes (including dewatering), on-site water treatment plant or municipal water structures;
  - Shaft complex site locations; and
  - ROM conveyor routes.

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### ENVIRONMENTAL PROCESS (1)

**What?**

- Assessment of the potential impacts of the proposed project on the environment.
- Environment definition (water, soils, air etc.).
- Implementing appropriate management measures.

**Why?**

- Legal requirement.
- It is the right thing to do.

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## ENVIRONMENTAL PROCESS (2)

### How?

- Scoping phase
  - Identification and participation of IAPs (landowners, adjacent landowners, land users, NGO etc.);
  - Identification of potential impacts and preliminary assessment\*;
  - Identification of possible mitigation measures\*;
  - Sets out scope of work for further investigations.
- \* This will be refined during the EIA and Environmental Management Programme (EMP)
- EIA and EMP phase
  - Assessment of impacts with input from specialists where applicable;
  - Outline mitigation measures including monitoring plan.

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## ENVIRONMENTAL PROCESS (3)

### Permissions required for the proposed project:

- Mining Right (DMR);
- Environmental authorisation (DMR);
- Waste management license (DMR) and amendment of application in terms of Government Notice Regulation 632 of 24 July 2015;
  - New NEMA regulations were promulgated on 8 December 2014
  - Integrated process between MPRDA, NEMA and NEM:WA
- Water use license (DWS).

### Authorities

- Regulatory authorities;
- Local authorities.

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## POTENTIAL ENVIRONMENTAL IMPACTS

- Loss of soil and land capability;
- Biodiversity;
- Surface water;
- Groundwater;
- Air pollution;
- Noise pollution;
- Topography;
- Visual;
- Loss of heritage and palaeontological resources;
- Socio-economic;
- Road use and traffic;
- Blasting impacts;
- Change in land use;
- Loss and sterilisation of mineral resources.

Specialist Studies will be conducted on these, to verify the current status, identify potential impacts and develop mitigation measures.

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## STATUS OF THE EXISTING ENVIRONMENT (1)

(Based on previous baseline studies and regional GIS databases. These are to be verified during this environmental process.)

### Air quality:

- Located within the Highveld Priority Area.
- Elevated PM10 and SO<sub>2</sub> levels in the area.
- Existing emission sources: Power generation, mining, fugitive dust from paved/unpaved roads, wind erosion and open areas, domestic fuel combustion, biomass burning and vehicle tailpipe emissions.

### Surface water:

- Quaternary Sub-catchments B11A, B11B, B11C and B11D.
- Steenkoolspruit River drains across the middle of the site and various wetland features within the greater application area classified as National Freshwater Ecosystem Protected Areas according to SANBI.

### Groundwater:

- Shallow aquifer comprising the coal resource.

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## STATUS OF THE EXISTING ENVIRONMENT (2)

(Based on previous baseline studies and regional GIS databases. These are to be verified during this environmental process.)

### Soils and land capability:

- Soil physically classified as loamy, structured or wet based with parts of sand, clay and ferretic layers.
- Soil depth varies between 0,5m and 1,2m, with limited soil areas being deeper than 1,5m.
- The land capability of the study area was classified into four distinct classes: wet land or lands with wet based soils, arable land, grazing land, and wilderness or conservation land and is predominantly utilised for maize cultivation.

### Land use:

- Combination of agricultural/ cultivation, small pockets of grazing land, natural land, water bodies and residential areas, gravel road network, power line servitude.
- Not anticipated that any other developments will be effected by the proposed project and visa versa.

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## STATUS OF THE EXISTING ENVIRONMENT (3)

(Based on previous baseline studies and regional GIS databases. These are to be verified during this environmental process.)

### Animal life:

- Secretarybird, Southern Bald Ibis, Brown Hyaena, Serval, Black-winged Pratincole, Blue Korhaan, Greater Flamingo, Lanner Falcon, Highveld Golden Mole and Southern African Hedgehog.
- Species of conservation concern, vulnerable species and near threatened species.

### Plant life:

- Endangered Eastern Highveld Grassland.
- Protected species, species of conservation concern and vulnerable species.

### Geology:

- Located in the Karoo Basin.

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**STATUS OF THE EXISTING ENVIRONMENT (4)**

(Based on previous baseline studies and regional GIS databases.  
These are to be verified during this environmental process.)

Visual:

- Slight to moderate undulating plains, low hills, dams and wetlands/pan depressions, drainage lines and streams criss-cross the study area in various directions towards the Steenkoolspruit.
- Numerous mining related structures, R545 and R544 roads and power lines.

Noise:

- Current noise environment in the wider area is already compromised by the surrounding mining, farming, industrial and transport activities.
- Noise receptors located in close proximity are currently experiencing a combination of rural and urban ambient noise levels.

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**STATUS OF THE EXISTING ENVIRONMENT (5)**

(Based on previous baseline studies and regional GIS databases.  
These are to be verified during this environmental process.)

Socio-economic:

- Kriel and Thubelihle towns within a 5 km radius of the proposed project site.
- 74.6% employed while 25.4% of the economically active population is unemployed.
- Above average access to basic services (formal dwellings, piped water within dwelling or yard and electricity).
- Limited sanitation services (flushing toilets and weekly refuse removal) within ELM.

Topography:

- Located in a relatively flat to slightly undulating area with a protruding ridge line in the eastern and southern sections.
- Average height above sea level is approximately 1 600 m.
- The Steenkoolspruit runs through the centre.

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**STATUS OF THE EXISTING ENVIRONMENT (6)**

(Based on previous baseline studies and regional GIS databases.  
These are to be verified during this environmental process.)

Heritage/cultural & palaeontological resources:

- Sites of cultural importance within the greater application area:
  - 2 Iron Age sites
  - 1 farm building;
  - 1 farm yard; and
  - Various grave sites.

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**QUESTIONS, COMMENTS AND QUERIES**

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**WAY FORWARD**

- Scoping Report is available for public comment (09 February to 09 March 2016).
- Competent authority (DMR) review (12 March to 23 April 2016): 43 days to accept scoping report or refuse application.
- Conduct specialist investigations and complete EIA and EMP report.
- Regulatory authorities and IAPs: 30 days to submit comments on EIA and EMP report.
- Stakeholder feedback meetings in EIA Phase and opportunity to review EIA and EMP report.
- Competent authority review: 107 days to refuse or grant environmental authorisation.

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**SCOPING REPORT REVIEW AND COMMENTS**

- Kriel Library (Civic Centre);
- Secunda Library (Govan Mbeki Local Municipality);
- Bethal Civic Centre (Govan Mbeki Local Municipality);
- Enkundleni Primary School;
- Mr Van der Westhuizen Home (Witrand Farm); and
- 'Report FTP' page of [www.synergistics.co.za](http://www.synergistics.co.za) (login details - Username: synergistics; Password: v9urweyf).


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**CONTACTS**

**PUBLIC PARTICIPATION AND ENVIRONMENTAL  
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CLOSE

Thank you for you time and participation



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**ANGLO AMERICAN INYOSI COAL (AAIC)**

**PUBLIC SCOPING MEETING FOR THE PROPOSED MINING RIGHT APPLICATION AND RELATED ENVIRONMENTAL AUTHORISATIONS**

**ALEXANDER PROJECT**

DATE	10h00 11 February 2016
VENUE:	Kuiersaam Guesthouse - Secunda
PROJECT:	Alexander Project
SLR COMPANY:	Synergistics Environmental Services (Synergistics), an SLR Group Company
PROJECT NUMBER:	750.01080.00002
PURPOSE:	The purpose of the meeting was to: <ul style="list-style-type: none"><li>• Provide an overview of the proposed project;</li><li>• Provide an overview of the environmental assessment process that will be undertaken for the proposed project;</li><li>• Provide an overview and obtain input on the existing status of the environment;</li><li>• Outline and obtain input on potential impacts identified for the proposed project;</li><li>• Record any issues and concerns raised by interested and affected parties (IAPs); and</li><li>• Agree on the way forward.</li></ul>
ATTENDANCE:	An attendance register is presented in Appendix 1.

**1. OPEN AND INTRODUCTION**

The meeting was opened by Marline Medallie who then introduced Synergistics represented by herself as the Project Manager, Ntsako Baloyi as the Stakeholder Engagement Manager, Mase Rantsieng as the Project Assistant, Lebo Pandeka as the Health and Safety representative and JC Pretorius as the Project Team Member. Ms Medallie then introduced Anglo American Inyosi Coal (AAIC) represented by Russell Smart.

**PRESENTATIONS**

Ms Medallie gave the presentation on the Alexander Project. The presentation delivered, gave an overview of the proposed project; an outline of the environmental impact assessment process to be followed; an overview of the legal framework; an overview of the current status of the existing environment; and the anticipated environmental impacts.

As part of the presentation, Mr Smart also gave a presentation on the technical aspects of the project. The presentation delivered, gave an overview of the proposed project and all technical related information. The presentation is attached in Appendix 2.

## **2. DISCUSSION**

A number of issues were raised during the meeting. These have been recorded in Table 1 below. Where a response was provided during the meeting, the response has also been included in the table. It was highlighted at the meeting that the environmental process is in its early stages and as such not all answers to issues raised were available.

**TABLE 1: RECORD OF ISSUES RAISED AND RESPONSES GIVEN**

ISSUE RAISED	NAME	RESPONSE GIVEN BY SLR UNLESS OTHERWISE STATED
<b>Procedural related issues</b>		
May we request the copy of the presentation to be forwarded to us.	JH Venter, Public Scoping Meeting Kuipersaam Guesthouse, 11 February 2016 (landowner)	Synergistics has noted your request.
<b>Technical project related issues</b>		
Where is the low quality coal located and what will happen to that coal if it is not mined?	Henry Duhn, Public Scoping Meeting Kuipersaam Guesthouse, 11 February 2016 (landowner)	The shaded areas in the prospecting right area as indicated on the map shows where the high quality export coal is. The unshaded area is where the low quality coal is. AAIC's intention at this stage is only to mine the shaded areas while the unshaded areas will remain as is as it does not meet the export quality requirements. However, should there be improved quality, improved market conditions or improved technology in the future that decision may be reviewed (AAIC). There are no activities planned for that area (AAIC).
What are your plans with regards to the portion of area that is very close to Kriel town?		The prospecting rights of that portion is owned by AAIC.
Who owns the prospecting right for the portion of the area that is very close to Kriel town?		AAIC does not have that information at its disposal but is happy to source it. It will be included in the EIA/ EMP report (AAIC).
Who owns the land for the portion of the area that is very close to Kriel town?	JH Venter, Public Scoping Meeting Kuipersaam Guesthouse, 11 February 2016 (landowner)	A site selection study was undertaken to determine the best location for the shaft taking into consideration a number of factors including technical and environmental. Eight sites were in fact identified for the shaft and the results showed the preferred site as the one indicated on the map. There are plans to build a new intersection from the R545 for access into the shaft area and the plan is to construct overland conveyor parallel to the road (AAIC). Initially the ventilation shaft will form part of the shaft complex.
Where will the ventilation shaft be located?		
<b>Water related issues (supply, surface and groundwater)</b>		
The department of water and sanitation has previously drilled boreholes in the area. Was that in any way linked to this proposed project?	JH Venter, Public Scoping Meeting Kuipersaam Guesthouse, 11 February 2016 (landowner)	No, not that we are aware of. (AAIC)
One of the biggest concerns for the farmers is water shortages and water contamination, both ground and surface water.		Synergistics has noted your concern, it will be investigated during the EIA/ EMP phase.

ISSUE RAISED	NAME	RESPONSE GIVEN BY SLR UNLESS OTHERWISE STATED
<p>If water is contaminated, it will be up to the farmers to prove that the contamination was done by the mine. What is the step by step process of laying such a complaint to ensure that farmers are protected? When my borehole dries up, where do I complain?</p>	<p>Henry Duhn, Public Scoping Meeting Kuipersaam Guesthouse, 11 February 2016 (landowner)</p>	<p>Synergistics has noted your issue, it will be addressed in the EIA/ EMP phase.</p>
<p><b>Noise related issues</b></p>		
<p>When a new ventilation shaft is constructed, noise will be a major concern.</p>	<p>JH Venter, Public Scoping Meeting Kuipersaam Guesthouse, 11 February 2016 (landowner)</p>	<p>Synergistics has noted your concern. The ventilation shaft will be situated within the proposed shaft complex area. However if the location of the ventilation shaft changes and/or a new ventilation shaft has to be sunk, a separate environmental authorisation process similar to this one will be undertaken and it will also have a public consultation component (AAIC).</p>
<p>I am happy that this project is an underground mine, noise is definitely a concern.</p>		<p>Synergistics has noted your concern.</p>
<p><b>Landuse and access related issues</b></p>		
<p>If I would like to make use of the surface land before mining commences, who can I engage with from AAIC?</p>	<p>Henry Duhn, Public Scoping Meeting Kuipersaam Guesthouse, 11 February 2016 (landowner)</p>	<p>You can get in touch with the Estates Department at AAIC and they will be able to assist you. At a later stage, a General Manager will also be appointed and they will also be available for any discussion regarding the matter (AAIC).</p>
<p><b>Visual related issues</b></p>		
<p>I am concerned about the visual impact of the temporary stockpiles in the shaft complex area. This area forms part of the Cosmos Route.</p>	<p>JH Venter, Public Scoping Meeting Kuipersaam Guesthouse, 11 February 2016 (landowner)</p>	<p>Synergistics has noted your concern, it will be investigated during the EIA/ EMP phase. It must be noted though that there are regulations to manage such stockpiles and that some of the stockpiles will be used to backfill the shaft void at a later stage.</p>

### **3. THE WAY FORWARD**

Ms Medallie outlined the way forward as follows:

- The scoping report has been made available for public and regulatory authority review on 09 February 2016.
- A summary document of the scoping report has been compiled in English has be distributed to IAPs via post, fax and e-mail.
- Copies of the scoping report will be placed at the following venues for public review:
  - Kriel Library (Civic Centre);
  - Secunda Library (Govan Mbeki Local Municipality);
  - Bethal Civic Centre (Govan Mbeki Local Municipality);
  - Enkundleni Primary School; and
  - Mr Van der Westhuizen's Home (Witransd Farm).
- Regulatory authorities and IAPs will have 30 days to submit comments on the scoping report.

### **5. CLOSE**

- Ms Medallie thanked everyone for attending the meeting and closed the meeting.

## APPENDIX 1: ATTENDANCE REGISTER

Project: Alexander Project (Application for a mining right and related environmental authorisations)

Meeting: Public Scoping Meeting

SLR Company: Synergistics Environmental Services (Part of SLR Consulting Pty Ltd.)

Date: 11 February 2016


Venue: Watershed Conference



Name and Surname	Designation / Interest	Postal address	Contact numbers	E-mail	Signature
J.H. Venter Safari Trust	Farmer Vaalkop 104	P.O. Box 1481 Betha	08 3326266	ujm.venter @safmass.co.za	
Russell Smart	Anglo American Coal				
H.B. Dunn	Boer ANGEWISS	Posbus 3777 KRIEL	0525 713763	dunnhbr@yahoo.com	
W.PRETORIUS	NOZIT GEDRENT	Bas 1223 BETHA	083 2972665	alt.gedoppd@gmail.com	
S (Rous)	TSIBANALO COLLIEY		0737199635 09779	Sebastian: Cross@angloamerican.com	
sandile Moluli	Ad/sasol	1555 Embalenhie	0766717878	jero.bostenough@gmail.com	
K. Mokoena	Anglo		0726 383633	kemeth.mokoena@angloamerican.com	
NISAKO BALOYI	SLR	P.O. Box 1516 CENTRALVIEW 2060	0814470445	nbaloqi@slrconsulting.com	



## APPENDIX 2: PRESENTATION




**ENVIRONMENTAL IMPACT ASSESSMENT  
FOR THE PROPOSED ALEXANDER  
PROJECT**

**PUBLIC SCOPING MEETING**

**10 & 11 FEBRUARY 2016**


**AGENDA**

- Welcome and opening;
- Meeting protocol;
- Overview of the proposed project;
- Environmental process overview;
- Anticipated environmental impacts;
- Overview of the existing status of the environment;
- General discussion;
- Close.




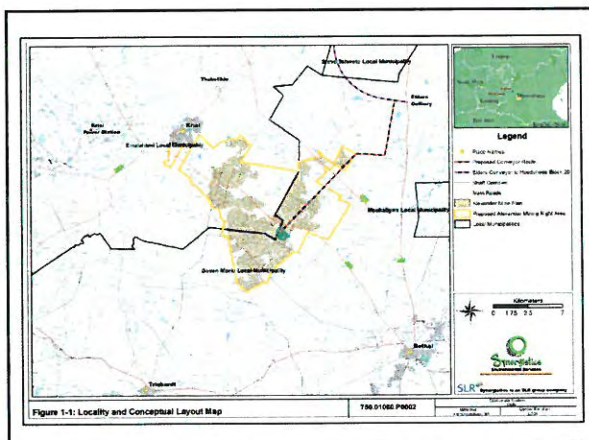
**MEETING PROTOCOL**

- Please switch cell phones off or onto a silent setting.
- There will be a dedicated question and answer session.
- Before asking a question, please raise your hand and state your name clearly so that we may correctly record it in the minutes.
- This is a Scoping Meeting, and therefore the emphasis is on recording the questions and comments correctly, so that they may be addressed during the Environmental Impact Assessment (EIA). We do not have all the answers at this stage.




**OVERVIEW OF PROPOSED PROJECT (1)**

- Anglo American Inyosi Coal (Pty) Ltd (AAIC) is proposing to establish a new underground coal mine through the Alexander Project. The mine boundary is approximately 12 km northwest of Bethal and directly to the south and south-east of Kriel in the Mpumalanga Province.
- Within the Govan Mbeki (GMLM) and Emalaheni Local Municipalities (ELM).
- The proposed Alexander project will comprise the following associated surface infrastructure:
  - Waste rock dumps – shaft excavation material;
  - Topsoil stockpiles – shaft surface area;
  - Overland Run of Mine (ROM) conveyor; and
  - Mine related support facilities (offices etc.).

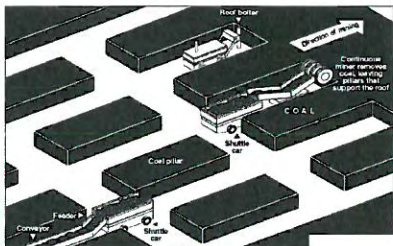



**OVERVIEW OF PROPOSED PROJECT (3)**

- **Technical details:**
  - Intend to mine the No. 4 Seam only – average depth 63m (range 20m to 125m), average thickness 4.90m over the intended mine layout. "Select" portion is in the lower 2/3 of the seam.
  - Intended market is Export market – through Richards Bay Coal Terminal.
  - Total area of the Mining Right Application area is 10,700ha; the proposed mine layout covers ~7,300ha. Shaft surface area ~120ha.
  - Overland conveyor to transport all ROM coal to Elders Colliery, and via Elders conveyor to Goedeheop. Overland conveyor is 18km long – servitude including service road is 55m wide; 100ha.
  - Design caters for an incline shaft system for men, material and coal transportation, and a vertical shaft primarily for ventilation purposes.
  - Mining method will be traditional Bord and Pillar, with Continuous Miner technology.




**OVERVIEW OF PROPOSED PROJECT (4)**



**BORD AND PILLAR**

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**OVERVIEW OF PROPOSED PROJECT (5)**

**OVERLAND CONVEYOR BELT**




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**OVERVIEW OF PROPOSED PROJECT (6)**

- **Mine Related Services:**
  - Water: Neighbouring Anglo mining operations, on-site boreholes (including dewatering), on-site water treatment plant or municipal water structures.
  - Power: Generators will be used as the primary power supply until the consumer substation has been constructed in order to supply the mine with power from Eskom.
  - Waste: General and hazardous waste collected on site, temporarily stored and disposed at off site permitted waste disposal facilities.
  - Sewage: Provision of a mobile sewage treatment plant.
  - Transport: Transportation of construction and operational materials to and from site will be by road. Transportation of ROM product will be by overland conveyor. Within the site boundary, internal and service roads, conveyors and pipelines will be used.


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**OVERVIEW OF PROPOSED PROJECT (7)**

- **Staff and housing:**
  - Job opportunities: Approximately 500 *during construction*;
  - Housing: None on-site, workers to be accommodated in nearby towns.
- **Other facilities:**
  - Material storage and handling areas (run-of mine, fuel, lubricants, general and hazardous substances, explosives);
  - Water management (clean and dirty water dams, clean and dirty storm water controls);
  - Offices, change houses, ablutions, security facilities.

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**OVERVIEW OF PROPOSED PROJECT (8)**

- **Timing:**
  - 3 years construction. Planned life of mine – approximately between 30 to 35 years, at ~6.0 Mtpa ROM.
- **Alternatives being considered include:**
  - Water supply (neighbouring Anglo mining operations, on-site boreholes (including dewatering), on-site water treatment plant or municipal water structures;
  - Shaft complex site locations; and
  - ROM conveyor routes.

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**ENVIRONMENTAL PROCESS (1)**


**What?**

- Assessment of the potential impacts of the proposed project on the environment.
- Environment definition (water, soils, air etc.).
- Implementing appropriate management measures.

**Why?**

- Legal requirement.
- It is the right thing to do.

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## ENVIRONMENTAL PROCESS (2)

### How?

- Scoping phase
  - Identification and participation of IAPs (landowners, adjacent landowners, land users, NGO etc.);
  - Identification of potential impacts and preliminary assessment\*;
  - Identification of possible mitigation measures\*;
  - Sets out scope of work for further investigations.
- \* This will be refined during the EIA and Environmental Management Programme (EMP)
- EIA and EMP phase
  - Assessment of impacts with input from specialists where applicable;
  - Outline mitigation measures including monitoring plan.

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## ENVIRONMENTAL PROCESS (3)

### Permissions required for the proposed project:

- Mining Right (DMR);
- Environmental authorisation (DMR);
- Waste management license (DMR) and amendment of application in terms of Government Notice Regulation 632 of 24 July 2015;
  - New NEMA regulations were promulgated on 8 December 2014
  - Integrated process between MPRDA, NEMA and NEM:WA
- Water use license (DWS).

### Authorities

- Regulatory authorities;
- Local authorities.

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## POTENTIAL ENVIRONMENTAL IMPACTS

- Loss of soil and land capability;
- Biodiversity;
- Surface water;
- Groundwater;
- Air pollution;
- Noise pollution;
- Topography;
- Visual;
- Loss of heritage and palaeontological resources;
- Socio-economic;
- Road use and traffic;
- Blasting impacts;
- Change in land use;
- Loss and sterilisation of mineral resources.

Specialist Studies will be conducted on these, to verify the current status, identify potential impacts and develop mitigation measures.

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## STATUS OF THE EXISTING ENVIRONMENT (1)

(Based on previous baseline studies and regional GIS databases. These are to be verified during this environmental process.)

### Air quality:

- Located within the Highveld Priority Area.
- Elevated PM10 and SO<sub>2</sub> levels in the area.
- Existing emission sources: Power generation, mining, fugitive dust from paved/unpaved roads, wind erosion and open areas, domestic fuel combustion, biomass burning and vehicle tailpipe emissions.

### Surface water:

- Quaternary Sub-catchments B11A, B11B, B11C and B11D.
- Steenkoolspruit River drains across the middle of the site and various wetland features within the greater application area classified as National Freshwater Ecosystem Protected Areas according to SANBI.

### Groundwater:

- Shallow aquifer comprising the coal resource.

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## STATUS OF THE EXISTING ENVIRONMENT (2)

(Based on previous baseline studies and regional GIS databases. These are to be verified during this environmental process.)

### Soils and land capability:

- Soil physically classified as loamy, structured or wet based with parts of sand, clay and ferretrete layers.
- Soil depth varies between 0,5m and 1,2m, with limited soil areas being deeper than 1,5m.
- The land capability of the study area was classified into four distinct classes: wet land or lands with wet based soils, arable land, grazing land, and wilderness or conservation land and is predominantly utilised for maize cultivation.

### Land use:

- Combination of agricultural/ cultivation, small pockets of grazing land, natural land, water bodies and residential areas, gravel road network, power line servitude.
- Not anticipated that any other developments will be effected by the proposed project and visa versa.

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## STATUS OF THE EXISTING ENVIRONMENT (3)

(Based on previous baseline studies and regional GIS databases. These are to be verified during this environmental process.)

### Animal life:

- Secretarybird, Southern Bald Ibis, Brown Hyaena, Serval, Black-winged Pratincole, Blue Korhaan, Greater Flamingo, Lanner Falcon, Highveld Golden Mole and Southern African Hedgehog.
- Species of conservation concern, vulnerable species and near threatened species.

### Plant life:

- Endangered Eastern Highveld Grassland.
- Protected species, species of conservation concern and vulnerable species.

### Geology:

- Located in the Karoo Basin.

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**STATUS OF THE EXISTING ENVIRONMENT (4)**  
 (Based on previous baseline studies and regional GIS databases. These are to be verified during this environmental process.)

Visual:

- Slight to moderate undulating plains, low hills, dams and wetlands/pan depressions, drainage lines and streams criss-cross the study area in various directions towards the Steenkoolspruit.
- Numerous mining related structures, R545 and R544 roads and power lines.

Noise:

- Current noise environment in the wider area is already compromised by the surrounding mining, farming, industrial and transport activities.
- Noise receptors located in close proximity are currently experiencing a combination of rural and urban ambient noise levels.

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**STATUS OF THE EXISTING ENVIRONMENT (5)**  
 (Based on previous baseline studies and regional GIS databases. These are to be verified during this environmental process.)

Socio-economic:

- Kriel and Thubelihle towns within a 5 km radius of the proposed project site.
- 74.6% employed while 25.4% of the economically active population is unemployed.
- Above average access to basic services (formal dwellings, piped water within dwelling or yard and electricity).
- Limited sanitation services (flushing toilets and weekly refuse removal) within ELM.

Topography:


- Located in a relatively flat to slightly undulating area with a protruding ridge line in the eastern and southern sections.
- Average height above sea level is approximately 1 600 m.
- The Steenkoolspruit runs through the centre.

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**STATUS OF THE EXISTING ENVIRONMENT (6)**  
 (Based on previous baseline studies and regional GIS databases. These are to be verified during this environmental process.)

Heritage/cultural & palaeontological resources:

- Sites of cultural importance within the greater application area:
  - 2 Iron Age sites
  - 1 farm building;
  - 1 farm yard; and
  - Various grave sites.


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**QUESTIONS, COMMENTS AND QUERIES**

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**WAY FORWARD**

- Scoping Report is available for public comment (09 February to 09 March 2016).
- Competent authority (DMR) review (12 March to 23 April 2016): 43 days to accept scoping report or refuse application.
- Conduct specialist investigations and complete EIA and EMP report.
- Regulatory authorities and IAPs: 30 days to submit comments on EIA and EMP report.
- Stakeholder feedback meetings in EIA Phase and opportunity to review EIA and EMP report.
- Competent authority review: 107 days to refuse or grant environmental authorisation.

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**SCOPING REPORT REVIEW AND COMMENTS**


- Kriel Library (Civic Centre);
- Secunda Library (Govan Mbeki Local Municipality);
- Bethal Civic Centre (Govan Mbeki Local Municipality);
- Enkundleni Primary School;
- Mr Van der Westhuizen Home (Witrand Farm); and
- 'Report FTP' page of [www.synergistics.co.za](http://www.synergistics.co.za) (login details - Username: synergistics; Password: v9urweyf).


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**CONTACTS**

**PUBLIC PARTICIPATION AND ENVIRONMENTAL  
CONSULTANTS:**


Synergistics Environmental Services:  
Ntsako Baloyi / Marline Medallie  
Tel: 011 467 0945 Fax: 011 467 0945  
nbaloyi@slrconsulting.com / mmedallie@slrconsulting.com




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CLOSE

Thank you for you time and participation



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**ANGLO AMERICAN INYOSI COAL (AAIC)**

**PUBLIC SCOPING MEETING FOR THE PROPOSED MINING RIGHT APPLICATION AND RELATED ENVIRONMENTAL AUTHORISATIONS**

**ALEXANDER PROJECT**

DATE	14h00 11 February 2016
VENUE:	Enkundleni Primary School
PROJECT:	Alexander Project
SLR COMPANY:	Synergistics Environmental Services (Synergistics), an SLR Group Company
PROJECT NUMBER:	750.01080.00002
PURPOSE:	The purpose of the meeting was to: <ul style="list-style-type: none"><li>• Provide an overview of the proposed project;</li><li>• Provide an overview of the environmental assessment process that will be undertaken for the proposed project;</li><li>• Provide an overview and obtain input on the existing status of the environment;</li><li>• Outline and obtain input on potential impacts identified for the proposed project;</li><li>• Record any issues and concerns raised by IAPs; and</li><li>• Agree on the way forward.</li></ul>
ATTENDANCE:	An attendance register is presented in Appendix 1.

**1. OPEN AND INTRODUCTION**

The meeting was opened by Ntsako Baloyi who then introduced Synergistics represented by himself as the Stakeholder Engagement Manager. He introduced Mase Rantsieng as the Project Assistant, Lebo Pandeka as the Health and Safety representative and JC Pretorius as the Project Team Member. Mr Baloyi then introduced Anglo American Inyosi Coal (AAIC) represented by Russell Smart.

**PRESENTATIONS**

Mr Baloyi gave the presentation on the Alexander Project. The presentation delivered, gave an overview of the proposed project; an outline of the environmental impact assessment process to be followed; an overview of the legal framework; an overview of the current status of the existing environment; and the anticipated environmental impacts.



As part of the presentation, Mr Smart also gave a presentation on the technical aspects of the project. The presentation delivered, gave an overview of the proposed project and all technical related information. The presentation is attached in Appendix 2.

## **2. DISCUSSION**

A number of issues were raised during the meeting. These have been recorded in Table 1 below. Where a response was provided during the meeting, the response has also been included in the table. It was highlighted at the meeting that the environmental process is in its early stages and as such not all answers to issues raised were available.

**TABLE 1: RECORD OF ISSUES RAISED AND RESPONSES GIVEN**

ISSUE RAISED	NAME	RESPONSE GIVEN BY SYNERGISTICS UNLESS OTHERWISE STATED
<b>Socio-economic issues</b>		
I stay on one of the affected farms, please be more specific as to whether there will be any relocations as a result of the project?	Chinwe Shabane, Public Scoping Meeting Enkundleni Primary School, 11 February 2016 (land occupier)	Synergistic has noted your issue, it will be investigated during the EIA/EMP phase.
We have to wait for 20 years for the project to commence only to have the employees from Elders Colliery work on the mine and then wait for another 30 years, while we continue to live in poverty.	Ernest Shumani, Public Scoping Meeting Enkundleni Primary School, 11 February 2016 (land occupier)	
It looks like we will not get any jobs; usually the mine requires some mining experience and qualifications which we do not have.	Ernest Shumani, Public Scoping Meeting Enkundleni Primary School, 11 February 2016 (land occupier)	
Why is the coal being exported when we need it here in South Africa?	Petrus Ngcobo, Public Scoping Meeting Enkundleni Primary School, 11 February 2016 (land occupier)	
There will be impacts on the maize farms where farm owners will be compensated, which will result in job losses for us farm workers. The mine will also not be able to employ us and the situation will just get worse for us.	Petrus Ngcobo, Public Scoping Meeting Enkundleni Primary School, 11 February 2016 (land occupier)	
How are we going to benefit from this project?	Freddy Maseko, Public Scoping Meeting Enkundleni Primary School, 11 February 2016 (land occupier)	
I will be on pension in 20 years' time, you should have invited our children to this meeting because they are the ones that are going to be affected by this development when it commences.	Philemon Sibanyane, Public Scoping Meeting Enkundleni Primary School, 11 February 2016	

ISSUE RAISED	NAME (land occupier)	RESPONSE GIVEN BY SYNERGISTICS UNLESS OTHERWISE STATED
<b>Technical project related Issues</b>		
How will the blasting impacts be managed?	Ernest Shumani, Public Scoping Meeting Enkundleni Primary School, 11 February 2016 (land occupier)	A blasting and vibration specialist will be appointed to assess the impacts and provide input into management measures during the EIA/EMP phase. It must be noted though that blasting will only be conducted at a depth of 63m and from experience from previous projects; the vibrations felt on the surface will be negligible (AAIC).
<b>Surface Water and Water Supply Issues</b>		
We are concerned about the impact the project will have on water supply especially as we are already experiencing water shortages.	Petrus Ngcobo, Public Scoping Meeting Enkundleni Primary School, 11 February 2016 (land occupier)	Synergistics has noted your concern, it will be investigated during the EIA/EMP phase.

### **3. THE WAY FORWARD**

Mr Baloyi outlined the way forward as follows:

- The scoping report has been made available for public and regulatory authority review on 09 February 2016.
- A summary document of the scoping report has been compiled in English has been distributed to IAPs via post, fax and e-mail.
- Copies of the scoping report will be placed at the following venues for public review:
  - Kriel Library (Civic Centre);
  - Secunda Library (Govan Mbeki Local Municipality);
  - Bethal Civic Centre (Govan Mbeki Local Municipality);
  - Enkundleni Primary School; and
  - Mr Van der Westhuizen's Home (Witrand Farm).
- Regulatory authorities and IAPs will have 30 days to submit comments on the scoping report.

### **5. CLOSE**

- Mr Baloyi thanked everyone for attending the meeting and closed the meeting.

## APPENDIX 1: ATTENDANCE REGISTER

Project: Alexander Project (Application for a mining right and related environmental authorisations)

Meeting: Public Scoping Meeting

SLR Company: Synergistics Environmental Services (Part of SLR Consulting Pty Ltd.)

Date: 11 February 2016

Venue: Entuzial Primary School



Name and Surname	Designation / Interest	Postal address	Contact numbers	E-mail	Signature
Sedu Bhutwana	AFFECTED PARTIES	Blinkwater HOREB FARM Box 304 BETHAL 2310	079 558 758 082 836 0561 in 079 272 7302	mshabangu12@gmail.co.	Bhutoy
Timmy Shabangu	AFFECTED PARTIES	Horeb farm Box 306 Bethal 2310	082 2562973		P. Nkosi
Pinky Nkosi	AFFECTED PARTIES	Horeb farm	082 670 6301		S.E. Nkosi
Sbenjile Nkosi	AFFECTED PARTIES	Horeb farm	073 9059055		mathebula
MOSES Mathebula Hlatshwaye Thry Phira		Horeb farm			T. Hlatshwaye
Pitres Sobko		Horeb farm			T. Sobko
Sibusiso	Blinkwater		0185722384		
Themba Nkosi		Sanywekop	060 7690551		T.M Nkosi

Project: Alexander Project (Application for a mining right and related environmental authorisations)  
 Meeting: Public Scoping Meeting  
 SLR Company: Synergistics Environmental Services (Part of SLR Consulting Pty Ltd.)  
 Date: 11 February 2016  
 Venue:



Name and Surname	Designation / Interest	Postal address	Contact numbers	E-mail	Signature
John Ngob		259th Independence	0829946385		[Signature]
Jabulle mndeni			072465 5515		[Signature]
Lwalekhalo			0820590015		[Signature]
Phumile Nkomo		Blinkwater	07207530070		[Signature]
Xolisile Nkosi		Sowitropop	0711880553		[Signature]
ELISA NKOSI		Sowitropop	0824005869		[Signature]
Nomusa mthethwa		Blinkwater	0714150557		[Signature]
Jabulle Ketsi		WITSANK SD	0729329999		[Signature]

Project: Alexander Project (Application for a mining right and related environmental authorisations)  
 Meeting: Public Scoping Meeting  
 SLR Company: Synergistics Environmental Services (Part of SLR Consulting Pty Ltd.)  
 Date: 11 February 2016  
 Venue:



Name and Surname	Designation / Interest	Postal address	Contact numbers	E-mail	Signature
Shasana Jarda Joseph		P.O. Box 1631 Bethel 2310	0603850257		<i>[Signature]</i>
Mabilela			0829719535		<i>[Signature]</i>
Fungisi Shanyani		P.O. Box 1631 Bethel 2310	0786236861		<i>[Signature]</i>
B. Makhanya			0799475093		<i>[Signature]</i>
NO deaile			073159979 0838793758		<i>[Signature]</i>
EMINGVUSO					MINGVUSO
PHYMASONG			0791549979		MASONG
Sipho Mkhongo			0824090126		<i>[Signature]</i>
DANELOHLANGA			076589915		<i>[Signature]</i>



Project: Alexander Project (Application for a mining right and related environmental authorisations)  
 Meeting: Public Scoping Meeting  
 SLR Company: Synergistics Environmental Services (Part of SLR Consulting Pty Ltd.)  
 Date: 11 February 2016  
 Venue:



Name and Surname	Designation / Interest	Postal address	Contact numbers	E-mail	Signature
JUCKY DAGELE		P.O. Box 306 Bethal 2310	0768001750		<i>J. Dagele</i>
VASCO NOVELO		P.O. Box 306 Bethal 2310	0735001284		VASCO
Masa		P.O. Box 944 Kriel 0771	012 796 3594		<i>M. Masa</i>
Mahlangu		P.O. Box 67 Bethal 2310	0713708139		mahlangu.
ALICE		P.O. Box 67 Bethal 2310	060 955 8878		<i>Alice</i>
Phindile		P.O. Box 67 Bethal 2310	0713708139		<i>Phindile</i>
Mesilela		P.O. Box 67 Bethal 2310	0713708139		<i>Mesilela</i>
Sabulile		P.O. Box 67 Bethal 2310	0713708139		<i>Sabulile</i>
Dusadhia		P.O. Box 67 Bethal 2310	0713708139		<i>Dusadhia</i>
N zuza	Principal	Bonani School Box 67 Bethal 2310	0713708139		<i>N. zuza</i>
N. G.		Box 67 Bethal 2310	0713708139		<i>N. G.</i>
Jenele		Box 67 Bethal 2310	0713708139		<i>Jenele</i>
Dube		Box 67 Bethal 2310	0713708139		<i>Dube</i>
Johannes		Box 67 Bethal 2310	0713708139		<i>Johannes</i>
MAGLONI		Bethal 2310	0713708139		<i>M. Magloni</i>

Project: Alexander Project (Application for a mining right and related environmental authorisations)  
 Meeting: Public Scoping Meeting  
 SLR Company: Synergistics Environmental Services (Part of SLR Consulting Pty Ltd.)  
 Date: 11 February 2016  
 Venue:



Name and Surname	Designation / Interest	Postal address	Contact numbers	E-mail	Signature
K. S Nkoyana		2600 16 Street P.O. Box 173 Legedema 2310	073 1535 205 072 6170 962		<i>[Signature]</i>
Elisa Mphahlele		P.O. Box 173 Legedema 2310	076 857 7645		
Zachariah Mphahlele		P.O. Box 173	083 585 699		<i>[Signature]</i>
N. MTSWENU		P.O. Box 3777	0731679960		N.
A.M. NAKE		P.O. Box 3777	078 9614 195		A.M. NAKE
Phetolephi Mthimungu		P.O. Box 67 Bethal 2310 Reitzburg 079 04 05 482		Phetolephi mekie@sigmail. com	<i>[Signature]</i>
Winezi Mabasa Mkhabela Mkhamba		Legedema Bethal 2310			
Sohana Nhlato		P.O. Box 306 Bethal 2310	072 088 9105		NP Mkhamba Johna

Project: Alexander Project (Application for a mining right and related environmental authorisations)  
 Meeting: Public Scoping Meeting  
 SLR Company: Synergistics Environmental Services (Part of SLR Consulting Pty Ltd.)  
 Date: 11 February 2016  
 Venue:



Name and Surname	Designation / Interest	Postal address	Contact numbers	E-mail	Signature
Staal		Box 5971			
Mahlangu		Bethel 2310 Box 306	0766120780		S. Mahlangu
Roman Nkomo		Bethel 2310	062 7018116		Roman
Jenny		Bethel	X		
Masilela Emmelina		BETHEL BETHEL 2310	0726608820		Emmelina
Syngistics, Mngwenya		Bethel 2310	0191518744		Syngistics
Mngwenya Thakozani Syngistics Mngwenya			0799819740		
Boole A. Boole			0797559909		
			0768821912		

Project: Alexander Project (Application for a mining right and related environmental authorisations)  
 Meeting: Public Scoping Meeting  
 SLR Company: Synergistics Environmental Services (Part of SLR Consulting Pty Ltd.)  
 Date: 11 February 2016  
 Venue:



Name and Surname	Designation / Interest	Postal address	Contact numbers	E-mail	Signature
Michel Mogenburgh		7556 W4 Esate P.O. Box 306 Bedford 2310	-	-	Michel Mogenburgh
V. MATHAMBISI		P.O. Box 277	078 252 9858		V.M.
Isabelle Mosenburg		P.O. Box 264	0729313660	-	Isabelle Mosenburg
Piet Mosenburg		N52 P.O. Box	0461536356	N/A	P.M.
PETER					Peter
MARCO		P.O. Box 277	076-7819347		Marco
SARA+ SHARLEIGH			07697747526		Sara
Sara Smithe		Dorson farm	073879129		Sara
Russell Smart	Anglo American Coal				Russell Smart

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Name and Surname	Designation / Interest	Postal address	Contact numbers	E-mail	Signature
J. M. M. M. M.		P.O. Box 37177	082 68 62 360		<i>[Signature]</i>
S. M. M. M.	→ Career → Job → Training	P.O. Box 1631 Bethel 2310	082 635 6 761	@sunday.com	<i>[Signature]</i>
S. J. M. M.		P.O. Box 37177 Kye/2211	072 4212 291		<i>[Signature]</i>
M. J. M. M.		P.O. Box 24 Sunridge 2774	085 667 0358		<i>[Signature]</i>
M. J. M. M.		P.O. Box 67 Eric Pless	071 825 025		
S. J. M. M.		P.O. Box 306	079 476 2879		<i>[Signature]</i>
S. J. M. M.			076 776 3889		<i>[Signature]</i>
M. M. M. M.			089 422 553		<i>[Signature]</i>

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Name and Surname	Designation / Interest	Postal address	Contact numbers	E-mail	Signature
Feyene Mhlophe			0608926651		
Karri Kubhoba			0767674930		
Jerry Moko		P.O. Box 301 Betha/2310	0790419640		
Liam		Telhal 224	0738739102		
Fejice Sibanyoni			0713361101		f.i.s Sibanyoni
Sharon msimang		P.O. Box 377	0733903366		
Nomoya Mkhathazi			0799945653		
Zanele			0722824053		
Justin		P.O. Box 377	0720264510		

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 Venue:



Name and Surname	Designation / Interest	Postal address	Contact numbers	E-mail	Signature
Japric Khunela		5455 Emginiwa P.O. Box 3717 KRIEL 2271	08644154669		[Signature]
Nusi Nkosi		P.O. Box 3707 KRIEL 2271	072 547 5866		[Signature]
Thomson Mkhaya		P.O. Box 3707 KRIEL 2271			
Noses Maseke		P.O. Box 227 KRIEL 2271	076 326 1509		[Signature]
Joh Mkhayisi		P.O. Box 3777 KRIEL 2271			
Boyphe Mupfema		KRIEL 277 P.O. box 2707 KRIEL 277	0725720962		[Signature]
Loubie Mkhayisi		P.O. Box 3777 KRIEL 2271			[Signature]
FREDY Mkhayisi		Bus 3777 KRIEL 2271	0765258648		[Signature]
Johannes Nkulele					[Signature]

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 Date: 11 February 2016  
 Venue:



Name and Surname	Designation / Interest	Postal address	Contact numbers	E-mail	Signature
Elias Mahimanyi			0763199196		<i>Elias</i>
Trebo kubi		P.O BOX 92 Bethal 2310	0790922012		<i>Trebo kubi</i>
Melwa Maseko		P.O.Box 67 Bethal 2310	0825922921		<i>Melwa Maseko</i>
hromee Gue		BETHAL 2310	0760907531		<i>hromee Gue</i>
Jedomen Sabanyeni		dangewys	0763351360		<i>Jedomen Sabanyeni</i>
mingomezin JEREMIAH			0796723231		<i>JEREMIAH</i>
Andriel Mahlanga		Alexander	0784781297		<i>Andriel Mahlanga</i>
Shiz Maseko		Kaizerstad	0846069025		<i>Shiz Maseko</i>



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 Date: 11 February 2016  
 Venue:



Name and Surname	Designation / Interest	Postal address	Contact numbers	E-mail	Signature
Phumisa Mkhize		P.O. Box 1631	0721690391		
Sam Nkambule		Kingsford	0734066772		
Siemomndse		Phumisa P.O. Box 667	0711093320		
Sesi Nkuli		Bethal 2310	0710664728		
Notwendig Njengqulu		P.O. Box 667 Bethal 2310	0714557760		
Frembo Swavang		P.O. Box 306 S.B. Tonal 2310	0719 310920		
Songile		P.O. Box 377			
msimango		Bethal 2310	0829531021		
Happy Mokuang		P.O. Box 47 Bethal 2310	0719326377		
Bethal mthys		P.O. Box 47 Bethal 2310	07342265		

Project: Alexander Project (Application for a mining right and related environmental authorisations)  
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 Date: 11 February 2016  
 Venue:




Name and Surname	Designation / Interest	Postal address	Contact numbers	E-mail	Signature
Zenzele Mthlangi		Agony's Farm Bethal	0826212490		<i>Zenzele Mthlangi</i>
Jabulile Ntombeni		FAITHFUL ESTATE 306 BETHAL 2310	0160857341		<i>Jabulile Ntombeni</i>
BETTY NKOSI		Agony WAS FARM P.O. Box 3777 FAITHFUL FARM	063 2634214		<i>Betty Nkosi</i>
Precious Maseko		P.O. Box 306 Bethal 2310 Tebon Hill Estate P.O. Box 306 Bethal 2310			<i>Precious</i>
Nicholas Nkosi			0607086089		<i>Nicholas Nkosi</i>
Duma Masango		016477 P.O. Box 1631	0715389973		<i>Duma Masango</i>
Edmond Mthlangi					<i>Edmond Mthlangi</i>
Judy Mthlangi					<i>Judy Mthlangi</i>

**Project: Alexander Project (Application for a mining right and related environmental authorisations)**  
**Meeting: Public Scoping Meeting**  
**SLR Company: Synergistics Environmental Services (Part of SLR Consulting Pty Ltd.)**  
**Date: 11 February 2016**  
**Venue:**



Name and Surname	Designation / Interest	Postal address	Contact numbers	E-mail	Signature
Thula Nyakwaya			0711 881973		

## **APPENDIX 2: PRESENTATION**




**ENVIRONMENTAL IMPACT ASSESSMENT  
FOR THE PROPOSED ALEXANDER  
PROJECT**

**PUBLIC SCOPING MEETING**

**10 & 11 FEBRUARY 2016**


**AGENDA**

- Welcome and opening;
- Meeting protocol;
- Overview of the proposed project;
- Environmental process overview;
- Anticipated environmental impacts;
- Overview of the existing status of the environment;
- General discussion;
- Close.




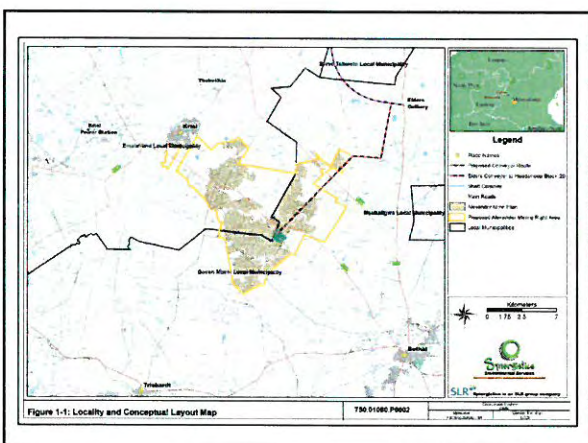
**MEETING PROTOCOL**

- Please switch cell phones off or onto a silent setting.
- There will be a dedicated question and answer session.
- Before asking a question, please raise your hand and state your name clearly so that we may correctly record it in the minutes.
- This is a Scoping Meeting, and therefore the emphasis is on recording the questions and comments correctly, so that they may be addressed during the Environmental Impact Assessment (EIA). We do not have all the answers at this stage.




**OVERVIEW OF PROPOSED PROJECT (1)**

- Anglo American Inyosi Coal (Pty) Ltd (AAIC) is proposing to establish a new underground coal mine through the Alexander Project. The mine boundary is approximately 12 km northwest of Bethal and directly to the south and south-east of Kriel in the Mpumalanga Province.
- Within the Govan Mbeki (GMLM) and Emalahleni Local Municipalities (ELM).
- The proposed Alexander project will comprise the following associated surface infrastructure:
  - Waste rock dumps – shaft excavation material;
  - Topsoil stockpiles – shaft surface area;
  - Overland Run of Mine (ROM) conveyor; and
  - Mine related support facilities (offices etc.).

**OVERVIEW OF PROPOSED PROJECT (3)**

- **Technical details:**
  - Intend to mine the No. 4 Seam only – average depth 63m (range 20m to 125m), average thickness 4.90m over the intended mine layout. "Select" portion is in the lower 2/3 of the seam.
  - Intended market is Export market – through Richards Bay Coal Terminal.
  - Total area of the Mining Right Application area is 10,700ha; the proposed mine layout covers ~7,300ha. Shaft surface area ~120ha.
  - Overland conveyor to transport all ROM coal to Elders Colliery, and via Elders conveyor to Goedehoop. Overland conveyor is 18km long – servitude including service road is 55m wide; 100ha.
  - Design caters for an incline shaft system for men, material and coal transportation, and a vertical shaft primarily for ventilation purposes.
  - Mining method will be traditional Bord and Pillar, with Continuous Miner technology.



**OVERVIEW OF PROPOSED PROJECT (4)**

**BORD AND PILLAR**

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**OVERVIEW OF PROPOSED PROJECT (5)**

## OVERLAND CONVEYOR BELT

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**OVERVIEW OF PROPOSED PROJECT (6)**

- **Mine Related Services:**
  - Water: Neighbouring Anglo mining operations, on-site boreholes (including dewatering), on-site water treatment plant or municipal water structures.
  - Power: Generators will be used as the primary power supply until the consumer substation has been constructed in order to supply the mine with power from Eskom.
  - Waste: General and hazardous waste collected on site, temporarily stored and disposed at off site permitted waste disposal facilities.
  - Sewage: Provision of a mobile sewage treatment plant.
  - Transport: Transportation of construction and operational materials to and from site will be by road. Transportation of ROM product will be by overland conveyor. Within the site boundary, internal and service roads, conveyors and pipelines will be used.

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**OVERVIEW OF PROPOSED PROJECT (7)**

- **Staff and housing:**
  - Job opportunities: Approximately 500 *during construction*;
  - Housing: None on-site, workers to be accommodated in nearby towns.
- **Other facilities:**
  - Material storage and handling areas (run-of mine, fuel, lubricants, general and hazardous substances, explosives);
  - Water management (clean and dirty water dams, clean and dirty storm water controls);
  - Offices, change houses, ablutions, security facilities.

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**OVERVIEW OF PROPOSED PROJECT (8)**

- **Timing:**
  - 3 years construction. Planned life of mine – approximately between 30 to 35 years, at ~6.0 Mtpa ROM.
- **Alternatives being considered include:**
  - Water supply (neighbouring Anglo mining operations, on-site boreholes (including dewatering), on-site water treatment plant or municipal water structures);
  - Shaft complex site locations; and
  - ROM conveyor routes.

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**ENVIRONMENTAL PROCESS (1)**

**What?**

- Assessment of the potential impacts of the proposed project on the environment.
- Environment definition (water, soils, air etc.).
- Implementing appropriate management measures.

**Why?**

- Legal requirement.
- It is the right thing to do.

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## ENVIRONMENTAL PROCESS (2)

### How?

- Scoping phase
  - Identification and participation of IAPs (landowners, adjacent landowners, land users, NGO etc.);
  - Identification of potential impacts and preliminary assessment\*;
  - Identification of possible mitigation measures\*;
  - Sets out scope of work for further investigations.
- \* This will be refined during the EIA and Environmental Management Programme (EMP)
- EIA and EMP phase
  - Assessment of impacts with input from specialists where applicable;
  - Outline mitigation measures including monitoring plan.

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## ENVIRONMENTAL PROCESS (3)

### Permissions required for the proposed project:

- Mining Right (DMR);
- Environmental authorisation (DMR);
- Waste management license (DMR) and amendment of application in terms of Government Notice Regulation 632 of 24 July 2015;
  - New NEMA regulations were promulgated on 8 December 2014
  - Integrated process between MPRDA, NEMA and NEM:WA
- Water use license (DWS).

### Authorities

- Regulatory authorities;
- Local authorities.

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## POTENTIAL ENVIRONMENTAL IMPACTS

- Loss of soil and land capability;
- Biodiversity;
- Surface water;
- Groundwater;
- Air pollution;
- Noise pollution;
- Topography;
- Visual;
- Loss of heritage and palaeontological resources;
- Socio-economic;
- Road use and traffic;
- Blasting impacts;
- Change in land use;
- Loss and sterilisation of mineral resources.

Specialist Studies will be conducted on these, to verify the current status, identify potential impacts and develop mitigation measures.

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## STATUS OF THE EXISTING ENVIRONMENT (1)

(Based on previous baseline studies and regional GIS databases. These are to be verified during this environmental process.)

### Air quality:

- Located within the Highveld Priority Area.
- Elevated PM10 and SO<sub>2</sub> levels in the area.
- Existing emission sources: Power generation, mining, fugitive dust from paved/unpaved roads, wind erosion and open areas, domestic fuel combustion, biomass burning and vehicle tailpipe emissions.

### Surface water:

- Quaternary Sub-catchments B11A, B11B, B11C and B11D.
- Steenkoolspruit River drains across the middle of the site and various wetland features within the greater application area classified as National Freshwater Ecosystem Protected Areas according to SANBI.

### Groundwater:

- Shallow aquifer comprising the coal resource.

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## STATUS OF THE EXISTING ENVIRONMENT (2)

(Based on previous baseline studies and regional GIS databases. These are to be verified during this environmental process.)

### Soils and land capability:

- Soil physically classified as loamy, structured or wet based with parts of sand, clay and ferretite layers.
- Soil depth varies between 0,5m and 1,2m, with limited soil areas being deeper than 1,5m.
- The land capability of the study area was classified into four distinct classes: wet land or lands with wet based soils, arable land, grazing land, and wilderness or conservation land and is predominantly utilised for maize cultivation.

### Land use:

- Combination of agricultural/ cultivation, small pockets of grazing land, natural land, water bodies and residential areas, gravel road network, power line servitude.
- Not anticipated that any other developments will be effected by the proposed project and visa versa.

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## STATUS OF THE EXISTING ENVIRONMENT (3)

(Based on previous baseline studies and regional GIS databases. These are to be verified during this environmental process.)

### Animal life:

- Secretarybird, Southern Bald Ibis, Brown Hyaena, Serval, Black-winged Pratincole, Blue Korhaan, Greater Flamingo, Lanner Falcon, Highveld Golden Mole and Southern African Hedgehog.
- Species of conservation concern, vulnerable species and near threatened species.

### Plant life:

- Endangered Eastern Highveld Grassland.
- Protected species, species of conservation concern and vulnerable species.

### Geology:

- Located in the Karoo Basin.

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**STATUS OF THE EXISTING ENVIRONMENT (4)**

(Based on previous baseline studies and regional GIS databases.  
These are to be verified during this environmental process.)

Visual:

- Slight to moderate undulating plains, low hills, dams and wetlands/pan depressions, drainage lines and streams criss-cross the study area in various directions towards the Steenkoolspruit.
- Numerous mining related structures, R545 and R544 roads and power lines.

Noise:

- Current noise environment in the wider area is already compromised by the surrounding mining, farming, industrial and transport activities.
- Noise receptors located in close proximity are currently experiencing a combination of rural and urban ambient noise levels.

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**STATUS OF THE EXISTING ENVIRONMENT (5)**

(Based on previous baseline studies and regional GIS databases.  
These are to be verified during this environmental process.)

Socio-economic:

- Kriel and Thubelihle towns within a 5 km radius of the proposed project site.
- 74.6% employed while 25.4% of the economically active population is unemployed.
- Above average access to basic services (formal dwellings, piped water within dwelling or yard and electricity).
- Limited sanitation services (flushing toilets and weekly refuse removal) within ELM.

Topography:

- Located in a relatively flat to slightly undulating area with a protruding ridge line in the eastern and southern sections.
- Average height above sea level is approximately 1 600 m.
- The Steenkoolspruit runs through the centre.

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**STATUS OF THE EXISTING ENVIRONMENT (6)**

(Based on previous baseline studies and regional GIS databases.  
These are to be verified during this environmental process.)

Heritage/cultural & palaeontological resources:

- Sites of cultural importance within the greater application area:
  - 2 Iron Age sites
  - 1 farm building;
  - 1 farm yard; and
  - Various grave sites.

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**QUESTIONS, COMMENTS AND QUERIES**

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**WAY FORWARD**

- Scoping Report is available for public comment (09 February to 09 March 2016).
- Competent authority (DMR) review (12 March to 23 April 2016): 43 days to accept scoping report or refuse application.
- Conduct specialist investigations and complete EIA and EMP report.
- Regulatory authorities and IAPs: 30 days to submit comments on EIA and EMP report.
- Stakeholder feedback meetings in EIA Phase and opportunity to review EIA and EMP report.
- Competent authority review: 107 days to refuse or grant environmental authorisation.

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**SCOPING REPORT REVIEW AND COMMENTS**

- Kriel Library (Civic Centre);
- Secunda Library (Govan Mbeki Local Municipality);
- Bethal Civic Centre (Govan Mbeki Local Municipality);
- Enkundleni Primary School;
- Mr Van der Westhuizen Home (Witransd Farm); and
- 'Report FTP' page of [www.synergistics.co.za](http://www.synergistics.co.za) (login details - Username: synergistics; Password: v9urweyf).

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**CONTACTS**

**PUBLIC PARTICIPATION AND ENVIRONMENTAL  
CONSULTANTS:**

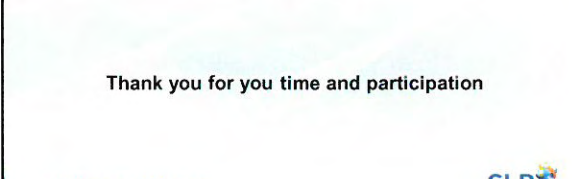
Synergistics Environmental Services:  
Ntsako Baloyi / Marline Medallie  
Tel: 011 467 0945 Fax: 011 467 0945  
nbaloyi@slrconsulting.com / mmedallie@slrconsulting.com




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**CLOSE**

**Thank you for you time and participation**



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**RHINO OIL AND GAS EXPLORATION  
MINUTES OF PUBLIC SCOPING MEETING**

<b>DATE</b>	22 April 2016 at 10:30
<b>VENUE:</b>	DMR Office eMalahleni
<b>PROJECT:</b>	Alexander Project
<b>SLR COMPANY:</b>	Synergistics Environmental Services (Pty) Ltd
<b>PROJECT NUMBER:</b>	750.01080.00002
<b>PURPOSE:</b>	Information Sharing
<b>ATTENDANCE:</b>	An attendance register is presented in Appendix 2.

**1. OPEN AND INTRODUCTION**

Each person introduced themselves, starting with Marline Medallie (SLR Consulting), Martha Seshweni (DMR), Thembakazi Ntsizi (DMR), Adriaan Botha (SLR Consulting), and Russell Smart (Anglo American).

**2. APOLOGIES**

Apologies were made for the late arrival at the meeting.

**3. PROJECT OVERVIEW**

The project overview was presented by Russell Smart as per the presentation.

**4. ENVIRONMENTAL PROCESS**

Marline Medallie presented the Environmental Process as per the presentation.

**5. DISCUSSION**


Some questions were asked for clarification. These are summarised in Appendix 1.

**6. THE WAY FORWARD**

Marline Medallie presented the way forward as per the presentation. The DMR Report template was also discussed.

**7. CLOSE**





**ENVIRONMENTAL IMPACT ASSESSMENT  
FOR THE PROPOSED ALEXANDER  
PROJECT**

**AUTHORITY SCOPING MEETING**

**22 APRIL 2016**

### AGENDA

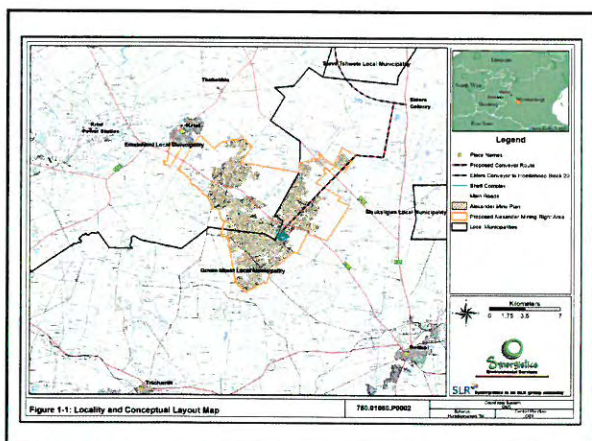
- Welcome and opening;
- Meeting protocol;
- Overview of the proposed project;
- Environmental process overview;
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- Close.

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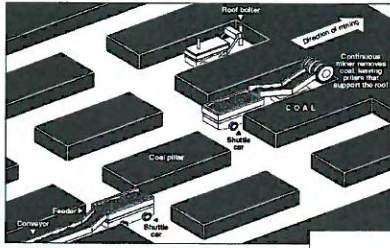
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  - Overland Run of Mine (ROM) conveyor; and
  - Mine related support facilities (offices etc.).




### OVERVIEW OF PROPOSED PROJECT (3)

- **Technical details:**
  - Intend to mine the No. 4 Seam only – average depth 63m (range 20m to 125m), average thickness 4.90m over the intended mine layout. "Select" portion is in the lower 2/3 of the seam.
  - Intended market is Export market – through Richards Bay Coal Terminal.
  - Total area of the Mining Right Application area is 10,700ha; the proposed mine layout covers ~7,300ha. Shaft surface area ~120ha.
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  - Design caters for an incline shaft system for men, material and coal transportation, and a vertical shaft primarily for ventilation purposes.
  - Mining method will be traditional Bord and Pillar, with Continuous Miner technology.

**OVERVIEW OF PROPOSED PROJECT (4)**



**BORD AND PILLAR**

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**OVERVIEW OF PROPOSED PROJECT (5)**


## OVERLAND CONVEYOR BELT



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**OVERVIEW OF PROPOSED PROJECT (6)**

- **Mine Related Services:**
  - Water: Neighbouring Anglo mining operations, on-site boreholes (including dewatering), on-site water treatment plant or municipal water structures.
  - Power: Generators will be used as the primary power supply until the consumer substation has been constructed in order to supply the mine with power from Eskom.
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- **Staff and housing:**
  - Job opportunities: Approximately 500 *during construction*;
  - Housing: None on-site, workers to be accommodated in nearby towns.
- **Other facilities:**
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  - Water management (clean and dirty water dams, clean and dirty storm water controls);
  - Offices, change houses, ablutions, security facilities.

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**OVERVIEW OF PROPOSED PROJECT (8)**

- **Timing:**
  - 3 years construction. Planned life of mine – approximately between 30 to 35 years, at -6.0 Mtpa ROM.
- **Alternatives being considered include:**
  - Water supply (neighbouring Anglo mining operations, on-site boreholes (including dewatering), on-site water treatment plant or municipal water structures;
  - Shaft complex site locations; and
  - ROM conveyor routes.

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**ENVIRONMENTAL PROCESS (1)**

**What?**

- Assessment of the potential impacts of the proposed project on the environment.
- Environment definition (water, soils, air etc.).
- Implementing appropriate management measures.

**Why?**


- Legal requirement.
- It is the right thing to do.

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**ENVIRONMENTAL PROCESS (2)**

**How?**

- Scoping phase
  - Identification and participation of IAPs (landowners, adjacent landowners, land users, NGO etc.);
  - Identification of potential impacts and preliminary assessment\*;
  - Identification of possible mitigation measures\*;
  - Sets out scope of work for further investigations.
- \* This will be refined during the EIA and Environmental Management Programme (EMP)
- EIA and EMP phase
  - Assessment of impacts with input from specialists where applicable;
  - Outline mitigation measures including monitoring plan.

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**ENVIRONMENTAL PROCESS (3)**

**Permissions required for the proposed project:**

- Mining Right (DMR);
- Environmental authorisation (DMR);
- Waste management license (DMR) and amendment of application in terms of Government Notice Regulation 632 of 24 July 2015;
  - New NEMA regulations were promulgated on 8 December 2014
  - Integrated process between MPRDA, NEMA and NEM-WA
- Water use license (DWS).

**Authorities**

- Regulatory authorities;
- Local authorities.

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**POTENTIAL ENVIRONMENTAL IMPACTS**

- Loss of soil and land capability;
- Biodiversity;
- Surface water;
- Groundwater;
- Air pollution;
- Noise pollution;
- Topography;
- Visual;
- Loss of heritage and palaeontological resources;
- Socio-economic;
- Road use and traffic;
- Blasting impacts;
- Change in land use;
- Loss and sterilisation of mineral resources.

Specialist Studies will be conducted on these, to verify the current status, identify potential impacts and develop mitigation measures.

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**STATUS OF THE EXISTING ENVIRONMENT (1)**  
(Based on previous baseline studies and regional GIS databases. These are to be verified during this environmental process.)

Air quality:


- Located within the Highveld Priority Area.
- Elevated PM10 and SO<sub>2</sub> levels in the area.
- Existing emission sources: Power generation, mining, fugitive dust from paved/unpaved roads, wind erosion and open areas, domestic fuel combustion, biomass burning and vehicle tailpipe emissions.

Surface water:

- Quaternary Sub-catchments B11A, B11B, B11C and B11D.
- Steenkooispruit River drains across the middle of the site and various wetland features within the greater application area classified as National Freshwater Ecosystem Protected Areas according to SANBI.

Groundwater:

- Shallow aquifer comprising the coal resource.

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**STATUS OF THE EXISTING ENVIRONMENT (2)**  
(Based on previous baseline studies and regional GIS databases. These are to be verified during this environmental process.)

Soils and land capability:

- Soil physically classified as loamy, structured or wet based with parts of sand, clay and ferretrete layers.
- Soil depth varies between 0.5m and 1,2m, with limited soil areas being deeper than 1,5m.
- The land capability of the study area was classified into four distinct classes: wet land or lands with wet based soils, arable land, grazing land, and wilderness or conservation land and is predominantly utilised for maize cultivation.

Land use:

- Combination of agricultural/ cultivation, small pockets of grazing land, natural land, water bodies and residential areas, gravel road network, power line servitude.
- Not anticipated that any other developments will be effected by the proposed project and visa versa.

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**STATUS OF THE EXISTING ENVIRONMENT (3)**  
(Based on previous baseline studies and regional GIS databases. These are to be verified during this environmental process.)

Animal life:


- Secretarybird, Southern Bald Ibis, Brown Hyaena, Serval, Black-winged Pratincole, Blue Korhaan, Greater Flamingo, Lanner Falcon, Highveld Golden Mole and Southern African Hedgehog.
- Species of conservation concern, vulnerable species and near threatened species.

Plant life:

- Endangered Eastern Highveld Grassland.
- Protected species, species of conservation concern and vulnerable species.

Geology:

- Located in the Karoo Basin.

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**STATUS OF THE EXISTING ENVIRONMENT (4)**

(Based on previous baseline studies and regional GIS databases.  
These are to be verified during this environmental process.)

Visual:

- Slight to moderate undulating plains, low hills, dams and wetlands/pan depressions, drainage lines and streams criss-cross the study area in various directions towards the Steenkoolspruit.
- Numerous mining related structures, R545 and R544 roads and power lines.

Noise:

- Current noise environment in the wider area is already compromised by the surrounding mining, farming, industrial and transport activities.
- Noise receptors located in close proximity are currently experiencing a combination of rural and urban ambient noise levels.

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**STATUS OF THE EXISTING ENVIRONMENT (5)**

(Based on previous baseline studies and regional GIS databases.  
These are to be verified during this environmental process.)

Socio-economic:

- Kriel and Thubelihle towns within a 5 km radius of the proposed project site.
- 74.6% employed while 25.4% of the economically active population is unemployed.
- Above average access to basic services (formal dwellings, piped water within dwelling or yard and electricity).
- Limited sanitation services (flushing toilets and weekly refuse removal) within ELM.

Topography:

- Located in a relatively flat to slightly undulating area with a protruding ridge line in the eastern and southern sections.
- Average height above sea level is approximately 1 600 m.
- The Steenkoolspruit runs through the centre.

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**STATUS OF THE EXISTING ENVIRONMENT (6)**

(Based on previous baseline studies and regional GIS databases.  
These are to be verified during this environmental process.)

Heritage/cultural & palaeontological resources:

- Sites of cultural importance within the greater application area:
  - 2 Iron Age sites
  - 1 farm building;
  - 1 farm yard; and
  - Various grave sites.

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**QUESTIONS, COMMENTS AND QUERIES**

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**WAY FORWARD**

- Scoping Report was available for public comment (09 February to 09 March 2016).
- Competent authority (DMR) acknowledgement of receipt of EIA/NEM:WA application for authorisation on 10 February 2016.
- DMR review (14 March to 25 April 2016): 43 days to accept scoping report or refuse application.
- Conduct specialist investigations and complete EIA and EMP report.
- Regulatory authorities and IAPs: 30 days to submit comments on EIA and EMP report.
- Stakeholder feedback meetings in EIA Phase and opportunity to review EIA and EMP report.
- Competent authority review: 107 days to refuse or grant environmental authorisation.

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**SCOPING REPORT REVIEW AND COMMENTS**

- Kriel Library (Civic Centre);
- Secunda Library (Govan Mbeki Local Municipality);
- Bethal Civic Centre (Govan Mbeki Local Municipality);
- Enkundleni Primary School;
- Mr Van der Westhuizen Home (Witrand Farm); and
- 'Report FTP' page of [www.synergistics.co.za](http://www.synergistics.co.za) (login details - Username: synergistics; Password: v9urweyf).

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**CONTACTS**

**PUBLIC PARTICIPATION AND ENVIRONMENTAL  
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**CLOSE**

**Thank you for you time and participation**

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**APPENDIX 2: ATTENDANCE REGISTER**

<b>Name</b>	<b>Interest/Village</b>	<b>Postal address</b>	<b>Contact details</b>

Project: Alexander Project

SLR Company: Superjistics Environmental Services (Pty) Ltd

Date: 22/04/16

Meeting: Meeting with DMR



Name and Surname	Interest in project	Postal address	Contact numbers	E-mail
Russell Smart	Anglo Project Manager		083 601 3367	russell.smart@ engloamarca.com
Adriean Botha	SLR consulting		074 344 1534	ebotha@slrconsulting. com
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Martha Seshweni	DMR		013 653 0759	marthaseshweni@ dmr.gov.za
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