



Site notice 5: Hotazel OK Foods



Site Notice 6: OK Grocer in Blackrock



Site Notice 7: Assmang intersection of the R380



Site Notice 8: Hotazel Library



Site Notice 9: Kuruman Municipal Office



Site Notice 10: Entrance Sliding Gate



Site Notice 11: Hotazel Club 1



Site Notice 12: Hotazel Club 2



Site Notice 13: Hotazel Library



Site Notice 14: Entrance to Site



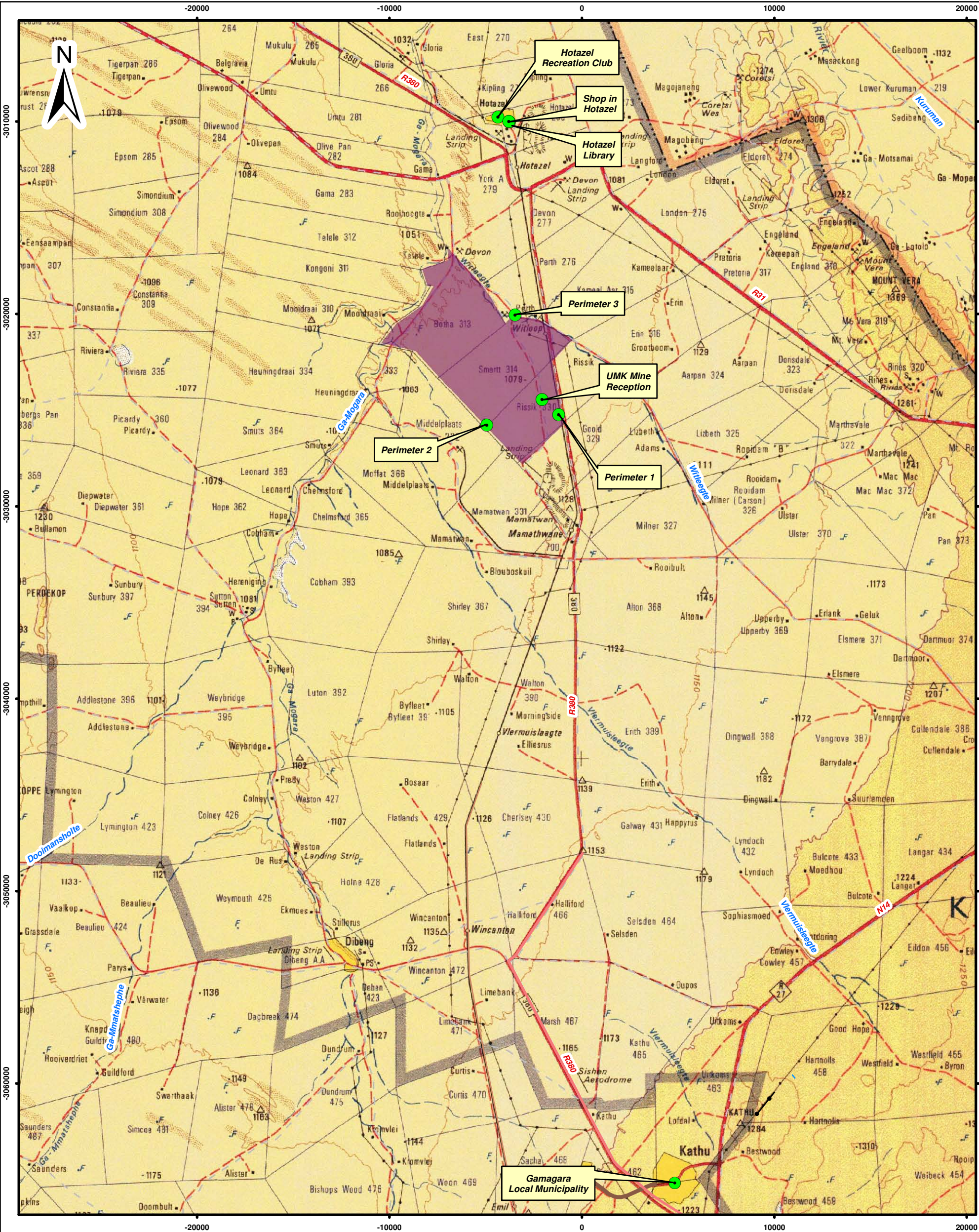
Site Notice 15: Old Entrance



Site Notice 16: Security Entrance



Site Notice 17: Hotazel



- Legend**
- UMK Mining Right Area
 - Main Roads
 - Secondary Roads
 - Power Line
 - Rivers and Streams
 - 20m Contour Lines
 - Site Notices

0 2 000 4 000
Meters

Scale: 1:50 000 @ A3
Projection: Transverse Mercator
Datum: WGS1984, Lo23

UNITED MANGANESE OF KALAHARI

Appendix 5
Site Notice Location



SLR Consulting (Africa) (Pty) Ltd
P O Box 1596, Cramerview, 2060, South Africa
Tel: +27 (11) 467-0945 Fax: +27 (11) 467-0978

710.21002.00036

January 2017

FW: United Manganese Of Kalahari- Invitation to Public Meeting - Message (HTML)

File Message

Ignore X Reply Reply Forward Meeting
Delete All Respond

Inbox To Manager
Team E-mail Done
Reply & Delete Create New

Quick Steps

Rules
OneNote
Actions

Move

Mark Unread Categorize Follow Up
Tags

Translate Select
Editing

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Related
Zoom

You forwarded this message on 2017/01/20 04:42 PM.

From: ☐ Mase Rantsieng Sent: Fri 2017/01/20 04:10 PM

To:

Cc:

Bcc: ☐ MakungoE@dws.gov.za; ☐ lefleurd@dws.gov.za; ☐ jacolinema@daff.gov.za; ☐ tmtho@webmail.co.za; ☐ Tmthombeni@ncpg.gov.za; ☐ Raisibe.Sekepane@dmr.gov.za; ☐ juliakatong2@gmail.com; ☐ bloomt@joemorolong.gov.za; ☐ leutlwetsed@joemorolong.gov.za; ☐ sseleka@webmail.co.za; ☐ eilerdm@taolagaetsewe.gov.za; ☐ fortunec@agri.ncpg.gov.za; ☐ ryan.oliver@drdlr.gov.za; ☐ nhiggitt@sahra.org.za

Subject: FW: United Manganese Of Kalahari- Invitation to Public Meeting

Message UMK BID letter_Afrikaans_Final 2016-01-18.pdf (5 MB) UMK BID letter_English_Final 2016-01-18.pdf (6 MB)

PUBLIC PARTICIPATION PROCESS

Dear Sir/Madam

United Manganese of Kalahari (Pty) Ltd (UMK) is proposing to apply for an amendment of its environmental management programme (EMP) on farm Botha 313, the remaining extent (RE) of the farm Smartt 314, and portion 1 and RE of the farm Rissik 330. UMK is an opencast manganese mine located to the south of the town of Hotazel in the Northern Cape Province and lies directly adjacent to and to the west of the R380 provincial road.

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Notice is hereby given of the intent to submit applications for related environmental authorisations as per the table below. The relevant legislation and associated activities include but are not limited to the following:

Legislation	Listed Activities and Water Uses	Competent Authority
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Please take note that the listed activities and water uses will be verified during the course of the environmental impact assessment process.

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FileMessage

IgnoreX

ReplyReply AllForwardMore

Meeting

InboxTeam E-mailReply & Delete

To ManagerDoneCreate New

RulesOneNoteActions

Move

Mark UnreadCategorizeFollow Up

Translate

FindRelatedSelect

ZoomZoom

From: Mase Rantsieng

To:

Cc:

Bcc: Kobus.Strauss@TradeVantage.co.za; conri.moolman@asiaminerals.com; josephmatshidiso@yahoo.com; gert.theart@vodamail.co.za; bpkampfer@web.co.za; Niekie.pretorius@south32.net; Lourikad2@gmail.com; Carel.reyneke@freemal.absa.co.za; bonolol@brmo.co.za; Rethabile.Mboya@arm.co.za; AshleyG.Mdeod@arm.co.za; hendrik.arangies@kmr.co.za; dineo.peta@south32.net; Rudzani.mudau@south32.net; Lerato.Legong@south32.net; dennis.chinasamy@south32.net; Sylvia.Makoele@south32.net; ludekefj@eskom.co.za; dibaslaghuis@gmail.com; ydwaltac@gmail.com; tsteyn@lantic.net; pyperp@iafrica.com; ervsboerdery2@gmail.com; Alex.Mooya@south32.net; stolskawie@gmail.com; Fouriedawie@gmail.com; camel@vodamail.co.za; Sam.fiff@transnet.net; cabangile.zulu@transnet.net; ebena@absamail.co.za; james@tshipi.co.za; krugersoret@yahoo.com; anne.boodhram@bhpbilliton.com

Subject: United Manganese Of Kalahari- Invitation to Public Meeting

MessageUMK BID letter_Afrikaans_Final 2016-01-18.pdf (5 MB)UMK BID letter_English_Final 2016-01-18.pdf (6 MB)

Sent: Fri 2017/01/20 04:43 PM



APPLICATION FOR AMENDMENT OF THE ENVIRONMENTAL MANAGEMENT PROGRAMME AND RELATED ENVIRONMENTAL AUTHORISATIONS FOR THE UNITED MANGANESE OF KALAHARI (PTY) LTD
NORTHERN CAPE PROVINCE

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ABWA	Section 24: (a) construction of dam; (b) water storage; (c) waste disposal; (d) mine pit	Amendment of Section 24: (a) construction of dam; (b) water storage; (c) waste disposal; (d) mine pit	DMR

Therisia Steyn

P O Box 346

Hotazel

8490

Janse Jacobus Petrus

PO Box 33

Kuruman

8460

Gert Abraham Coetzee

PO Box 66510

Riebeeckstad

9469

Bobby Reynecke

Posbus 7

Hotazel

8490

M Sebotse

P.O Box 4333

Kuruman

8460

M Molane

P.O Box 2673

Kuruman

8460

Hannes Noeth

P.O Box 67

Hotazel

8460

M Sereperepe

5 Butler Rd

Diamant Park

Kimberly

8301

Carolina Margretha Noeth

PO Box 169

Santoy

8491

Abrie Maritz

Damhoek

P.O Box 113

Olifantshoek

8450

Gert Noeth

P.O Box 169

Santoy

8491

Niekie Kruger

PO Box 358

Kuruman

8460

Doctor Bvuma

92 Villa Toulouse

Eagle Trace Estate

Dainfern

2055

710.21002.00036



20 Jan 2017

[Handwritten signature]
Progress

Marline Medallie

From: Mase Rantsieng
Sent: 08 February 2017 11:01 AM
To: JacolineMa
Subject: RE: United Manganese Of Kalahari- Invitation to Public Meeting

Morning Jacoline,

Thank you.

A copy of the meeting minutes and further EIA documentation will be forwarded once available for public and authority review.

As part of the proposed project an independent biodiversity specialist has been appointed to assess the potential impacts of the project and a copy of the EIA containing the biodiversity specialist study will be couriered once available for public and authority review.

Kind regards,

From: JacolineMa [mailto:JacolineMa@daff.gov.za]
Sent: 24 January 2017 11:29 AM
To: Mase Rantsieng
Subject: RE: United Manganese Of Kalahari- Invitation to Public Meeting

Dear Mase

Thank you for the invitation to the Public Meeting. Please accept my apology. Due to budget constraints, we are not allowed to travel. May you please forward me a copy of the Minutes of the Meeting and/or any further EIA documentation for comments.

Kindly ensure that the developer assesses the potential impacts on NFA Listed Protected Tree Species and plants protected under the Northern Cape Nature Conservation Act, Act 9 of 2009 (NCNCA). This office would like to get copies of the EIA report on a C.D. or a hardcopy. Kindly note we cannot download documents via dropbox links. The report and specialist fauna and flora impact assessment can be posted to: DAFF (J. Mans), P.O. Box 2782, Upington, 8800 or courier: House 26, Olien Street, Louisvaleweg, Upington, 8801.

Regards,

Jacoline Mans

Designation: Chief Forester (NFARegulation)
Directorate: Forestry Management (Other Regions) Northern Cape
Department of Agriculture, Forestry and Fisheries

Tel: 054 338 5909
Fax: 054 334 0030
Web: www.daff.gov.za
E-mail: JacolineMa@daff.gov.za

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From: Mase Rantsieng [<mailto:mrantsieng@slrconsulting.com>]
Sent: 20 January 2017 04:05 PM
Subject: United Manganese Of Kalahari- Invitation to Public Meeting

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ENVIRONMENTAL AUTHORISATIONS FOR THE UNITED MANGANESE OF KALAHARI (PTY) LTD
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Please take note that the listed activities and water uses will be verified during the course of the environmental impact assessment process.

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You have been identified as a key stakeholder who may be interested in hearing more about the proposed project and to provide input into the environmental assessment process. This email therefore serves to invite you to a public

meeting. A public scoping meeting has been arranged as part of the public participation process. The details of the public meeting are provided below:

Date: 30 January 2017
Venue: Hotazel Recreational Club
Time: 16:00

In this regard, please also refer to the attached background information document (BID) for more information about the project.

Comments can be submitted at various stages of the project as follows: in writing to the undersigned, at the public meetings and after review of the various reports. Please submit any initial comments for inclusion in the scoping report at the public scoping meeting or by 31 January 2017.

Kind regards,

Mase Rantsieng

Environmental Assessment Practitioner
SLR Consulting (Africa) (Pty) Ltd

Email: mrantsieng@slrconsulting.com
Mobile: +27 83 764 2596
Tel: +27 11 467 0945
Ext: 2041
Fax: +27 11 467 0978

SLR Consulting (Fourways office)
Block 7 Fourways Manor Office Park
Cnr Roos and Macbeth Streets
Fourways, Johannesburg, 2060
South Africa



Industry



Infrastructure



Mining & Minerals



Oil & Gas



Planning & Development



Renewable & Low Carbon



Waste Management

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Marline Medallie

From: Refilwe Sekwati <Refilwe.Sekwati@drdlr.gov.za>
Sent: 08 February 2017 09:01 AM
To: Mase Rantsieng
Subject: RE: United Manganese Of Kalahari- Invitation to Public Meeting

Good Day

With this email I hereby acknowledge receipt of the land claim enquiry submitted on the 07 January 2017.

I will attend to it as soon as possible.

Kind Regards

REFILWE SEKWATI
COMMUNICATIONS OFFICIAL
OFFICE OF THE REGIONAL LAND CLAIMS COMMISSION: NORTHERN CAPE
TEL; 053 807 5749
FAX: 053 831 6501

From: Mase Rantsieng [mailto:mrantsieng@slrconsulting.com]
Sent: Wednesday, February 08, 2017 8:47 AM
To: Nqabisa Mkalipi; Refilwe Sekwati
Subject: FW: United Manganese Of Kalahari- Invitation to Public Meeting

FYI

From: Mase Rantsieng
Sent: 08 February 2017 07:48 AM
To: Ryan Oliver; Nqabisa Mkalipi
Subject: RE: United Manganese Of Kalahari- Invitation to Public Meeting

Morning Nqabisa,

Please update me on the status of the farms listed in the email below.

Kind regards,

From: Mase Rantsieng
Sent: 25 January 2017 01:41 PM
To: Ryan Oliver; Nqabisa Mkalipi
Subject: RE: United Manganese Of Kalahari- Invitation to Public Meeting

Thank you Ryan,

Could you please check whether there are any land claims for: farm Botha 313, the remaining extent (RE) of the farm Smartt 314, and portion 1 and RE of the farm Rissik 330.

Kind regards,

From: Ryan Oliver [<mailto:ryan.oliver@drdlr.gov.za>]
Sent: 23 January 2017 08:19 AM
To: Nqabisa Mkalipi
Cc: Mase Rantsieng
Subject: FW: United Manganese Of Kalahari- Invitation to Public Meeting

Good day

Please note that Ms' Mkalipi and Ms Refilwe Sekwati will be responding to Land claim Enquiries from now on.

Yours sincerely

From: Mase Rantsieng [<mailto:mrantsieng@slrconsulting.com>]
Sent: 20 January 2017 04:10 PM
Subject: FW: United Manganese Of Kalahari- Invitation to Public Meeting

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Environmental Assessment Practitioner
SLR Consulting (Africa) (Pty) Ltd

Email: mrantsieng@slrconsulting.com
Mobile: +27 83 764 2596
Tel: +27 11 467 0945
Ext: 2041
Fax: +27 11 467 0978

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Cnr Roos and Macbeth Streets
Fourways, Johannesburg, 2060
South Africa



Industry



Infrastructure



Mining & Minerals



Oil & Gas



Planning & Development



Renewable & Low Carbon



Waste Management

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Registered Office: Unit 7 Fourways Manor Office Park, Cnr Roos and Macbeth Street, Fourways, 2191, Gauteng, South Africa

Marline Medallie

From: Marline Medallie
Sent: 30 January 2017 05:13 AM
To: Mase Rantsieng
Subject: Fwd: UMK Vergadering belangstellende en geaffekteerde partye
Attachments: IMG_20170129_0001.pdf; ATT00001.htm

Hi Mase,

Please add the e-mail below and the attached reply sheet to the IRR table for inclusion in the scoping report.

Kind Regards
Marline

Begin forwarded message:

From: "Hendrik Venter" <camel@vodamail.co.za>
To: "Marline Medallie" <mmedallie@slrconsulting.com>
Subject: UMK Vergadering belangstellende en geaffekteerde partye

Goeie Middag - Die Vergadering van UMK om 16h00 in die Ontspanningsaal te Hotazel het betrekking.

Ontvang asb die Vorm van die belangstellende en geaffekteerde Party SALTRIM RANCHES (PTY) LTD, by die geleentheid verteenwoordig deur die mede-direkteur, D. Venter.

Marline Medallie

Environmental Assessment Practitioner
Synergistics - part of the SLR group

Email: mmedallie@slrconsulting.com
Mobile: +27 82 782 5301
Tel: +27 11 467 0945
Ext: 2031
Fax: +27 11 467 0978

Marline Medallie

From: Mase Rantsieng
Sent: 01 February 2017 11:06 AM
To: Chris Schutte (CEJ)
Cc: Heleen Van Den Heever (HD)
Subject: RE: United Manganese Of Kalahari
Attachments: Property boundaries.pdf

Morning Chris,

Please refer to the attached map as requested.

Kind regards,

Mase Rantsieng

Environmental Assessment Practitioner
SLR Consulting (Africa) (Pty) Ltd

Email: mrantsieng@slrconsulting.com

Mobile: +27 83 764 2596

Tel: +27 11 467 0945

Ext: 2041

Fax: +27 11 467 0978

SLR Consulting (Fourways office)
Block 7 Fourways Manor Office Park
Cnr Roos and Macbeth Streets
Fourways, Johannesburg, 2060
South Africa



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From: Chris Schutte (CEJ) [<mailto:SchutCE5@telkom.co.za>]
Sent: 27 January 2017 10:13 AM
To: Mase Rantsieng
Cc: Heleen Van Den Heever (HD)
Subject: United Manganese Of Kalahari
Importance: High

Good day

Please provide us with sketches/maps that shows the stand numbers so that we can indicate our infrastructure on.

Kind regards

Chris Schutte
Mvelaphande Trading
SchutCE5@telkom.co.za
051 401 6701 / 081 045 5686

~~~~~  
This e-mail is subject to the Telkom SA SOC Ltd electronic communication legal notice,  
available at : <http://www.telkom.co.za/TelkomEMailLegalNotice.PDF>  
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UMK MANGANESE MINING (PTY) LTD

EIA/EMP

INTERESTED AND AFFECTED PARTY DATABASE

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TABLE 1: PROJECT TEAM AND ENVIRONMENTAL ASSESSMENT TEAM

Interest group	Title	Name	Surname	Organisation	Interest
Project team	Mr	Andrew	McDonald	UMK	Project Manager- Mine Design
	Mr	David	Mamphita	UMK	Lead Project Metallurgist
	Mr	Ian	Cameron-Clarke	SRK Consulting	Hydrogeology
	Ms	Kim	Moonsamy	SRK Consulting	Social and Labour Plan
	Mr	Solly	Van der Merwe	Oryx Exploration	Project geologist
	Mr	Lazarus	Mbethe	UMK	Chairman
Environmental consultants	Ms	Marline	Medallie	SLR Consulting (Africa) (Pty) Ltd	Project Manager
	Mr	Aelx	Pheiffer		Project Reviewer
	Ms	Mase	Rantsieng		Project Assistant
	Mr	Steve	Van Niekerk	SLR Consulting (Africa) (Pty) Ltd	Closure Specialist
Specialist Team	Ms	Nicolette	Von Reiche	Airshed Planning Professional (Pty) Ltd	Noise Impact
	Mrs	Hanlie	Liebenberg-enslin		Air Impact Assessment
	Dr	Natalie	Birch	Ecological Management Services	Biodiversity Survey
	Mr	Erik	Kohler	Cambrian CC	Blasting Impact Assessment
	Mr	Werner	Neethling	Mercury Financial Services (Pty) Ltd	Economic Impact Assessment
	Mr	Mihai	Mureson	SLR Consulting (Pty) Ltd	Groundwater Study
	Ms	Michelle	Papenfus	SLR Consulting (Pty) Ltd	Hydrogeochemistry
	Mr	Marine	Pienaar	Terra Africa	Soil and Land Use Study
	Mr	Wouter	Fourie	PGS Heritage (Pty) Ltd	Heritage and Paleontology Impact Assessment
	Mr	Paul	Van der Westhuizen	Siyazi Gauteng (Pty) Ltd	Traffic Impact Assessment
	Ms	Werner	Neethling	Mercury Financial Consultants	Economic Impact Assessment

Interest group	Title	Name	Surname	Organisation	Interest
	Ms	Natalie	Birch	EMS	Biodiversity study
	Mr	Paul	Klimczak	SLR Consulting	Water Balance
	Mr	Ben	Van Zyl	Acusolv	Noise Impact Study
Library	Mrs	Vinene	Wessels	Hotazel Library	Librarian
		Librarian		Kathu Library	
Venue hire	Mrs	Simone	Fourie	Hotazel Recreational club	
	Mrs	Anne	Boodhram		

TABLE 2: LANDOWNES WITHIN THE PROJECT AREA

Title	Name	Surname	Organisation/ Interest	Interest
Ms	Steyn	Therisia	Rissik 330 farm portion 0 (Gideon Poolman Famili Trust	Owner eastern portion, rents western portion from Billiton
Mr	Sam	Fiff	Transnet – Owner of Rissik portion 2 Smartt Portion 1	
Ms	Therisia	Steyn	Rissik farm portion1	Owner eastern portion, rents western portion from Billiton
Mr	Derick	Korff	Smartt Portion 0 Botha 313	

TABLE 3: LANDOWNERS AND LANDOWNERS DIRECTLY ADJACENT TO THE PROJECT AREA

Title	Name	Surname	Title Deed Number	Organisation (Contact Person)	Farm
Mrs	Alex	Mooya			
Mr	Janse Jacobus	Petrus	Landowner		York 279 portion 0
Mr	Jacobus Fredrick	Eduard	Landowner		York 279 portion 8 (rented by Dawie Fourie)
Mr	Andrew	Pyper	Middelplaats farm	P.O Box 132 Kuruman 8460	
Mr	Venter	Hendrik	Middelplaats, Kameelaar, Adams farms	PO Box 8 Hotazel 8490	
Mr	Gert Abraham	Coetzee	Roldraai 333 Portion o and 1	PO Box 66510 Riebeeckstad Eastern Cape 9469	
Ms	Dineo	Peta	Hotazel Manganese Mines (Pty) Ltd		
Mr	Sam	Fiff	Transnet		
Mr	Cabangile	Zulu	Transnet Ltd		Perth 276 portion 1, Devon 277 portion 1, York 279 portion 3, York 279 portion 4, York 279 portion 6

Mr	Eben	Antonissen	Perth farm	P.O Box 117 Hotazel	
Ms	Dries	Kruger	Milner Farm	P.O Box 358 Kuruman 8460	
	James		Tshipi é Ntle Manganese Mine	PO BOX 652286, BENMORE, 2010	
Mr	Machiel Andries	Kruger		P O Box 358 Kuruman 8460	
Ms	Surette	Kruger			Daughter
Mr	Sam	Fiff	Transnet –		
Mr	Andries	Van den Berg			
Ms	Dineo	Peta	Hotazel Manganese Mines (Pty) Ltd	-	
Mr	Rudzani	Mudau		-	
Mr	Lerato	Legong		Hotazel Manganese Mines (Pty) Ltd	
Mr	Dennis	Chinasamy			
Ms	Sylvia	Makoele			
Mr	Frederick	Ludeke		Eskom Holdings	
Mrs	Magdalena Aletta	van der Walt		Joseph van der Walt (son of landowner)	
Mr	Oscar	Antwerpen	Hotazel Manganese Mines (BHP Billiton)	PO Box 1 Hotazel 8490	
Mr	Ryno	van Schalkwyk		Waltwyk CC	
Mr	Derick	Korff		Terra Nominees (Pty) Ltd	

Mrs	Alex	Mooya			
Mrs	Hester Magdalena Gertruida	Stols (deceased)		Gawie Stols (son of landowner)	
Mr	Anthony	Martin	ERNC	ERNC	
				J & B Van Wyk Familie Trust	
Mr	Bonolo	Lekwa		Assmang Ltd	
Mr	Rethabile	Mboya			
Mr	Ashley	Mcleod			
Mr	Hendrik	Arangies	Kudumane Manganese Resources Pty Ltd	-	
Mr	Conri	Moolman			

TABLE 4: OTHER IAPS

	Name	Surname	Organisation	Interest/Notes	Designation
Mrs	Engela Elizabeth (Carel Reynecke)	Reynecke	Landowner	Informed us that any information we want to send her should be sent via Bobby Reynecke (Below)	N'chwaneng 267 portion 0
Mr	Bobby	Reynecke	Landowner		
Mr	Louw Pretorius	Van der Walt	Landowner	New land owner is his daughter, Laurika Delaport	Gama 283 portion 0
Mev	Lourika	Delaport	Landowner	Posbus 336 Hotazel	Gama 283 portion 0 Olive Pan 282 Portion 1
	M	Sebotse	Batlharos		
	M	Molane	Kagontle Operations cc		
Mr	Nicolaas Jacobus	Pretorius	Landowner		East 270, portion 0 and portion 2 (Grazing right on Kipling 271)
Mr	Hannes	Noeth	Foreman for Johan Houps		
Mr	M	Sereperepe	Kuruman Comm Trust		
Mr	Lodewikus	Bylsma	Landowner	Posbus 12 Santoy	Drakenstein 263 portion 0
Mr	Petrus Albertus	Van der Merwe	Landowner		Tigerpan 286 portion 0
Mr	Jacobus Johannes Francois	Threat	Landowner		Olivewood 284 portion 0, Epsom 285 portion 0
Mr	Gert	Threat	Landowner		
Mr	Barend Pretorius	Kampfer	Kampfer Family Trust		Epsom 285 portion 1
Mr	Ben				
Ms	Carolina Margretha	Noeth	Landowner		Simondium 308 portion 0
Mnr	Louw	Bylsma			
Mr	Johan Christiaan	Lamprecht	Landowner		Santoy 230 portion 0
	Deshika	Kathawaroo	Strategic Environmental Focus		
Mr	Abrie	Maritz	Mazda Wildlife study: birds of prey		
Mr	Lonwaba	Mgudlwa			
Mr	Rene	De bruin	Electricity Commission		
Mr	Gert	Noeth			
Mr	Hannes	Van der Merwe			Occupies Jacobus Pretorius' portions (i.e. East 270 Portion 0 and 2)
Ms	Niekie	Kruger			Goold Ptn 1
Mr	Jeff	Leader	T904/2011	Ntsimbintle Mining Pty Ltd	Wessel 227 Portion 2
Mr	Willem	Strauss		Land user	
Mr	Conri	Moolman			

	Name	Surname	Organisation	Interest/Notes	Designation
Mr	Joseph	Matshidiso			

TABLE 5: SURROUNDING INDUSTRY AND MINES, NON-GOVERNMENT ORGANISATIONS

	Name	Surname	Organisation	Interest/Notes	Designation
Mr	Siphiwe	Likhuleni	Kalagadi Manganese Pty Ltd		Landowner of Olive Pan 282 RE Gama 283 Portion 1 Whole farm Umtu 281
Mr	Tshepo	Molai			
Mr	Ramon	Henney	Telkom SA (Ltd)		Hotazel 280 portion 2
Mr	Jan	Theart	Agri Kuruman and Kalagadi Water Verbruikers Forum		
Mr	Albertus	Viljoen	Tshaping Water Use Association		
Mr	Erol	Motlathledi	SJJT-Main Projects		
Mr	S.J	Thape	SJJT-Main Projects		
Mr	Doctor	Bvuma	DMB Minerals	92 Villa Toulouse Eagle Trace Estate Dainfern	
Mrs	Rooi	Shadze	SJJT-Main Projects		
Mr	Jurie	Kriek	Lehating agriculture		
Mr	Ebeen	Anthouissen	Mac Mac Agri		
Mev	Rein	Van de Merwe	WRW Consulting Rep. KMR		
Mr	Louis	Hauman	BCM Kudumane		
Mr	Jaison	Rajen	BHP Billiton		
Mr	Ramon	Henney	Telkom SA Ltd		Hotazel 280 Portion 2, N'chwaneng 267 portion 5
Mr	Cupido	Love	United Manganese of Kalahari (Pty) Ltd		
Mr	Thivha	Tshithavhane			
Mr	Pule	Soaisa			
Mr	James	Manis	Tshipi é Ntle Manganese (Pty) Ltd		
Mrs	Nthabeleng	Paneng			
Mr	Anthony	Martin	ENRC		Kongoni 311 portion 0 and portion 1
Mr	Tumisang	Tagane	AfriBits		
Mr	Mark	Bremner	Southern Kalahari Construction		
Mr	Stephen	Nakanyane	ESKOM		
Mr	Tumisang	Tagane	AfriBits		

TABLE 6: REGULATORY AUTHORITIES LIST

Title	Name	Surname	Department	Postal Address
Ms	Esther	Makungo	Department of Water and Sanitation	28 Central Road
Ms	Dawn	Le Fleur		Kimberley 8300 Private Bag X6101 Kimberley 8300
Ms	Jacoline	Mans	Department of Agriculture, Forestry and Fisheries	26 Olien Street, Louisvale Road, Upington, 8801
Mr	Thulani	Mthombeni	Department of Environment and Nature Conservation	
Ms	Raisibe	Sekepane	Department of Mineral Resources	65 Phakamile Mabija Street Perm Building Kimberley P.O Box 6093 Kimberley 8300
Ms	Julia	Katong	Joe Morolong Local Municipality – Ward Councillor (Ward number 4)	PO Box 1480, Kuruman, 8460
Mr	Tshepho	Bloom	Joe Morolong Local Municipality – Municipal Manager	Private Bag X117, Mothibistad, 8474
Ms	Dineo	Leutlwetse	Joe Morolong Local Municipality – municipal mayor	Private Bag X117, Mothibistad, 8474
Mr	Seneo	Seleka	Joe Morolong Local Municipality – Environmental manager	Private Bag X117, Mothibistad, 8474
Mr	Moses	Eilerd	John Taolo Gaetsewe District Municipality – Municipal Manager	4 Federale Mynbou Street Kuruman 8460 PO Box 1480, Kuruman, 8460
Mr	Viljoen	Mothibi	Department of Agriculture and Land Reform - HOD	162 George Street, Private Bag X5018, Kimberley, 8300
Mr	Ryan	Oliver	Department of Rural Development and Land Reform - Land claims commissioner	
Ms	Natasha	Higgitt	SAHRA	



UNITED MANGANESE OF KALAHARI (PTY) LTD (UMK)
PUBLIC SCOPING MEETING FOR THE ENVIRONMENTAL MANAGEMENT PROGRAMME
AMENDMENT APPLICATION AND RELATED ENVIRONMENTAL AUTHORISATIONS
CHANGES TO OPERATIONS AT UMK MINE

DATE	30 January 2017 16:00
VENUE:	Hotazel Recreational Club
PROJECT:	Changes to Operations at UMK Mine
SLR COMPANY:	SLR Consulting (Africa) Pty Ltd
PROJECT NUMBER:	710.21002.00036
PURPOSE:	<p>The purpose of the meeting was:</p> <ul style="list-style-type: none">• To provide an overview of the project;• To provide an overview of the environmental impact assessment process that will be undertaken for the 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 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;• Agree on the way forward and the logistics for report distribution.
ATTENDANCE:	An attendance register is presented in Table 2.

1. OPEN AND INTRODUCTION

The meeting was opened by Marline Medallie (MM) who then introduced SLR Consulting, represented by herself as the Project Manager and Adriaan Botha as the Project Assistant. Ms Medallie then introduced United Manganese of Kalahari (UMK) represented by Pule Soaisa (UMK) and Adri Joubert (Geo Soil & Water).

2. APOLOGIES

No apologies were made.

3. PRESENTATIONS

Ms Medallie gave the presentation on the UMK Project. The presentation delivered, gave an overview of the project; an outline of the EIA 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. The presentation is attached in Appendix 2.

4. 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	BY WHOM	RESPONSE GIVEN BY SLR UNLESS OTHERWISE STATED
As mineralised waste rock gets dumped onto the waste rock dumps, some of the rock material tumbles over the boundary onto my farm. This results in fences being damaged and my livestock ending up in the UMK mining right area.	Dawid Vilu	SLR has noted your comment for the attention of UMK.
I am the landowner of the farm Perth 276. My house is situated close to the operations. Just up the road from me is another mining company. As far as I know the farms Smartt and Botha are owned by different mining companies and UMK is in the process of purchasing the farms. The D3340 gravel road was deproclaimed and the biggest portion of the road is located on my farm. UMK increased their footprint without consulting the DMR. Dust was dumped on the road and not rehabilitated. Technically UMK is trespassing using that road. I have applied for a section 24g in terms of NEMA. This has an impact on rural safety, littering, etc. A lot of leachate and surface runoff came out of the stuff that was dumped on the road and flowed into the Witleegte on my property. The commercial manager of UMK is aware of this. The contractors the mine and other mines in the area dump waste next to that road and it flows into the Witleegte. UMK contractors drove on that road and railway lines with excavators, which damaged the rail. Since UMK didn't lead by example, the third parties started using it thinking that they are allowed to. It is a problem for me since my farm workers don't want to stay in a house that has so much dust.	Eben Athonissen	The D3340 emergency access point/route is one of the listed activities applied for by UMK for use in emergency situations. This will be discussed with UMK and you will receive separate feedback regarding this issue (UMK).
In winter, all the dust generated by the UMK Mine is concentrated in the Witleegte Spruit which is in close proximity to where my farm workers stay. No dust suppression takes place. The distance between the entrance of the UMK Mine and the entrance to the farmstead on the D3340 road is approximately 400m.		SLR has noted your comment for the attention of UMK.
Blasting damage: none of the surrounding mines wants to accept responsibility for the damage that their blasting does. Previously seismographic readings were taken at my farmhouse by UMK Mine, but currently there is no mine operated seismographs since it was stolen.		Please keep record of all vibration readings recorded at your house. This issue has been noted and will be addressed as part of the vibration and blasting study during the EIA and EMP phase. The additional work required to address this issue is set out in the vibration and blasting study terms of reference as per section 7.3.8.

ISSUE RAISED	BY WHOM	RESPONSE GIVEN BY SLR UNLESS OTHERWISE STATED
Noise: through usage of the D3340 road by UMK mining contractors during the day and at night. The UMK mining contractors have to stop using the D3340 as this is a private road since no one wants to take responsibility.		The D3340 emergency access point/route is one of the listed activities applied for by UMK for use in emergency situations. This will be discussed with UMK and you will receive separate feedback regarding this issue. Unfortunately, we cannot act on behalf of the third parties (UMK).
Groundwater: unapproved activities (illegal dewatering) has taken place on the farm Perth, which has severely strained the aquifer on my farm. There isn't any recharge.		The groundwater specialist will be made aware of this issue for inclusion of your borehole(s) in the groundwater model.
Particular care must be taken with the accumulation of water in the mine pit due the expansion project. If the mine pit is dewatered, it will have a huge impact on my groundwater levels.		This issue has been noted and will be addressed as part of the groundwater study during the EIA and EMP phase. The additional work required to address this issue is set out in the groundwater study terms of reference as per section 7.3.3. All of the issues that you have raised will be discussed with UMK. We would rather fix the issues, discuss and reach an agreement with you regarding the issues (UMK).
Where do you intend to get potable water supply from?		UMK has an allocation from the Gamagara water pipeline of the Sedibeng Water Scheme. Some of the water has also been approved for dust suppression, though since it is clean water, using it for dust suppression is only done as a necessity (UMK).
How deep is the pit currently?		Maximum of 40m below the surface (UMK).

5. THE WAY FORWARD

Ms Medallie outlined the way forward as follows:

- The application will be submitted to the DMR by no later than Tuesday 31 January 2017.
- The scoping report will be made available for public and regulatory review on 10 February 2017.
- A summary document of the scoping report will be compiled in English and Afrikaans and will be distributed to all IAPs registered on the public involvement database via e-mail and post.
- Copies of the scoping report will be placed at the following venues for public review:
 - Joe Morolong Local Municipality;
 - John Taolo Gaetsewe District Municipality;
 - Hotazel Public Library;
 - Kathu Public Library;
 - Black Rock Library.

Electronic copies of the scoping report will be made available on the Public Documents page of the SLR website (www.slrconsulting.com/za).

- IAPs and regulatory authorities will have 30 days to submit comments on the scoping report in writing via fax, email or post to SLR on or before close of business on 10th of March 2017.

6. CLOSE

Ms Medallie thanked everyone for attending and closed the meeting.

APPENDIX 1: ATTENDANCE REGISTER

Name	Interest/Village	Postal address	Contact details
Dawid Vilu	Farmer	Posbus 8 Hotazel	082 490 9896 londonventer@vodamail.co.za
Pule Soaisa	UMK Environmental Officer		083 324 1334 pulesoaisa@umk.co.za
Heleen van den Heever	Telkom	195 Nelson Mandela Drive, Brandway, Bloemfontein	081 428 1691 WayleaCR@telkom.co.za
Eben Anthonissen	Landowner Perth 276	Posbus 117 Hotazel 8490	073 163 4665 083 306 6021 ebenanthonissen@hotmail.com
Marline Medallie	EAP, SLR		082 782 5301 mmedallie@slrconsulting.com
Lesego Seikaneng	Exco Member	PO Box 2577 Kuruman 8460	082 076 3170 seikagengl@joemorolong.gov.za
Verlaine Kakedeffo	UMK		083 270 0635 Verlaine.kd@umk.co.za

Project: UMK EMP NEMA Amendment

SLR Company: SLR Consulting (South Africa) Pty Ltd

Date: 30/01/2017

Venue: Hotazel Recreation Club



Name and Surname	Designation / Interest	Postal address	Contact numbers	E-mail	Signature
Jamil Venter	Former	Postbus 8 Hotazel	0824908886	findenventer@vobanuit.co.za	
Pule Soaika	UMK Env Off		0833241334	pule.soaika@umk.co.za	
Helene van den Heever	TELECOM	195 Nelson Mandela Drive Banda-Banda, Bloemfontein	0814281691	Wylee@RQ Telkom.co.za	
ANTHONISSEW	LANDOWNER PERTIN 276	Postbus 117 HOTAZEL 8490	073 163 4665 083 506 6021	EBENANTHONISSEW@HOTMAIK.COM	
Marline Medallie	EAP, SLR		0827825301	mmedallie@slrconsulting.com	
LBEGO	EXCO	P.O. Box 257 Kureghama 8460		Seikaneng@doe.morobong.gov.za	
SEIKANENG	MEMBER		0820763170		
VERLAINE KAKEDEFFO	UMK	UMK HOTAZEL	0822770635	verlaine.kd@umk.co.za	

APPENDIX 2: PRESENTATION



 **UNITED MANGANESE OF KALAHARI (PTY) LTD
PROPOSED EXPANSION OF MANGANESE MINE
AND CONTINUED SAFE OPERATION**

PUBLIC SCOPING MEETING
January 2017

global environmental and advisory solutions

1

AGENDA

- Welcome and opening
- Meeting protocol
- Motivation for the project
- Overview of the proposed project and listed activities being applied for
- Environmental process overview
- Anticipated environmental impacts
- Overview of the existing status of the environment
- Proposed public participation process
- 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.

3



MOTIVATION FOR THE PROJECT

- UMK maintains that the expansion of the opencast mine pit, waste rock dumps and product stockpiles is needed to:
 - Enable UMK Mine to stay in operation and to produce manganese at the grades demanded by its clients.
 - Safeguard the employment and economic development opportunities created by UMK Mine.
- Ensure continued safe operations at the UMK Mine.

4



OVERVIEW OF THE PROPOSED PROJECT (1)

- United Manganese of Kalahari (Pty) Ltd (UMK) currently holds mining rights for manganese on portions of the farms Botha 313, Smart 314 and Rissik 330, south of Hotazel in the Northern Cape Province.
- UMK is planning to apply for an amendment of its environmental management programme (EMP) to cater for changes to the approved surface infrastructure layout and expansion of the mine pit, waste rock dumps, product stockpiles and crushing operations. This includes new listed activities in terms of the National Environmental Management Act, 1998 (NEMA, No. 107 of 1998) and National Environmental Management: Waste Act, 2008 (NEM:WA, No.59 of 2008).

5



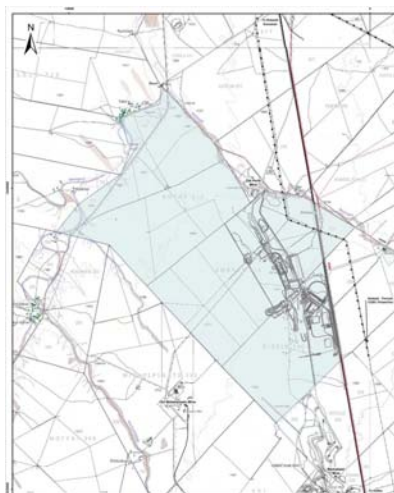
OVERVIEW OF THE PROPOSED PROJECT (2)

- The UMK Mine currently produces in the order of 2 million tonnes per annum (mtpa) of manganese ore. It is anticipated that a maximum of 3.8mtpa of ore will be mined as part of the proposed expansion project. To achieve this production level the amount of waste will be a maximum of 16 million m³ per annum.
- Due to the depth (~ 50m) and nature of the ore body, the preferred and current method is opencast mining through a conventional truck and shovel operation.
- The mine currently consists of open-pit mining sections, crushing and screening operations, run of mine, waste rock and product stockpile dumps, and associated support and administrative infrastructure.
- Future approved surface activities and infrastructure will include dense medium separation, sinter plant and mine residue deposit (tailings dam).

6

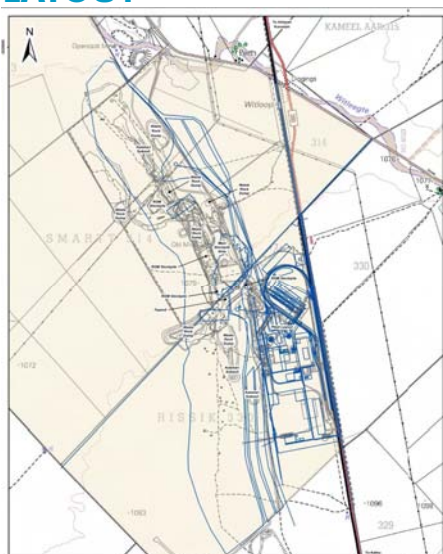


LOCAL SETTING OF THE PROPOSED PROJECT



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APPROVED VS EXISTING LAYOUT



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PROPOSED EXPANSION PROJECT LAYOUT



OVERVIEW OF THE PROPOSED PROJECT (3)

Approved EMP Infrastructure	Changes required in amended EMP
Open cast production (~ 2mtpa)	Proposed increase in volume to ~ 3.8mtpa and footprint ~ 152ha
Primary, secondary and tertiary crushing and screening plant	Repositioning Addition of mobile crusher area and new primary and secondary crusher
Product stockpiles	Addition of -6mm product stockpile, the kidney product stockpile, run of mine stockpile, two mobile crusher stockpiles and 5 new product stockpiles
Conveyors	Repositioning Addition of conveyor
Waste rock dumps (2)	Repositioning and increase in number to 6, to cater for layout changes. Addition of 3 proposed new dumps and increase in size of ~ 154ha.
Laboratory	Repositioning
Eskom substation	Repositioning
Administrative offices, stores, contractors yard and change house	Repositioning
Sewage treatment plant (waste stabilisation point system)	Repositioning and change in treatment system to activated sludge system
Main internal access road	Extension of access road in length to cut-in towards and running along the railway load-out station
Core yard (0)	Addition of core yard

OVERVIEW OF THE PROPOSED PROJECT (4)

Approved EMP Infrastructure	Changes required between approved and amended EMP
Haul truck access from the R380 road	Additional access from the D3340 road
Topsoil stockpiles – (2 adjacent to the pit and 3 in the plant area)	Different areas
Salvage yard and temporary waste storage area (waste yard)	Repositioning
Dirty water dams (3)	Repositioning and increase in number to 7, to cater for layout changes. Addition of 2 proposed new dams.
Workshops and wash bays (including stores, tanks and handling areas)	Repositioning Addition of waste tyre area and temporary wash bay
Contractors yard, and water and diesel storage facilities	Repositioning
Delivery truck/manganese road hauler parking (hard park)	Repositioning Addition of delivery truck/manganese road hauler waiting area and administration office (hard park)
Weighbridge (1)	Repositioning and increase in number to 2
Potable water storage tanks	Repositioning and addition of 3 water tanks at Four Arrows construction camp, 1 million litre reservoir, to cater for layout changes. Proposed new plant reservoir (in-pit mine dam).
Fuel bay	Repositioning and increase in capacity to ~ 42,000l
Service and dust suppression water storage	Repositioning and increase in numbers and capacity, to cater for layout changes. Addition of 4 proposed new 10,000l JoJo tanks.

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OVERVIEW OF THE PROPOSED PROJECT (5)

Legislation	Listed Activities and Water Uses		Changes required between approved and amended EMP
	Existing Infrastructure/Facilities	Proposed Infrastructure/Facilities	
MPRDA	Approved EMP	EMP Amendment Application	DMR
NEMA	GNR 983 Activities: <ul style="list-style-type: none"> • 12 (bridge/road over stream); • 27 (clearing of land); • 34 (release of pollution); • 45 (water pipelines); • 46 (dirty water pipelines); • 56 (roads). GNR 984 Activities: <ul style="list-style-type: none"> • 12 (rail facilities); • 21 and 28 (mobile crusher area). 	GNR 983 Activities: <ul style="list-style-type: none"> • 27 (clearing of land); • 34 (release of emissions/pollution); • 45 (water pipelines); • 46 (dirty water pipelines); • 51 (diesel storage facilities). GNR 984 Activities: <ul style="list-style-type: none"> • 9 (power lines); • 17 (expansion of mine pit). 	DMR

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OVERVIEW OF THE PROPOSED PROJECT (5)

Legislation	Listed Activities and Water Uses		Changes required between approved and amended EMP
	Existing Infrastructure/Facilities	Proposed Infrastructure/Facilities	
NEM:WA	Category B, Activity: <ul style="list-style-type: none"> • 4(7) waste rock dumps (WRD), pit backfilling; • 4(10) construction of waste facility(s); • 4(11) expansion of WRD. 	Category A, Activity: <ul style="list-style-type: none"> • 3(2) and 3(12) bioremediation facility; Category B, Activity: <ul style="list-style-type: none"> • 4(4) bioremediation facility, • 4(7) WRD, pit backfilling, • 4(10) construction of waste facility(s); • 4(11) expansion of WRD. 	DMR
NWA	Section 21: <ul style="list-style-type: none"> • (a) groundwater abstraction; • (b) water storage; • (g) waste disposal; • (j) mine pit dewatering. 	Amendment of Section 21: <ul style="list-style-type: none"> • (a) groundwater abstraction; • (b) water storage; • (g) waste disposal; • (j) mine pit dewatering. 	DWS

OVERVIEW OF THE PROPOSED PROJECT (5)

Alternatives

- Layout – no layout alternatives as the location of opencast activities is dictated by the location of the fixed ore body. Infrastructure within the site layout will be optimised to improve efficiencies and productivity within the mine.
- Mining method – no mining method alternatives as the method is dictated by the depth of the ore body.
- Services – no service alternatives considered as the services already approved and/or constructed for the UMK Mine will be utilised.

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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 verified during the environmental impact assessment (EIA) and environmental management programme (EMP) phase
- EIA/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:
 - Environmental authorisation in terms of NEMA (DMR);
 - EMP amendment in terms of MPRDA (DMR);
 - Waste management license in terms of NEM:WA (DMR);
 - Water use license amendment in terms of NWA Department of Water and Sanitation (DWS).

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ENVIRONMENTAL PROCESS (4)

- Authorities
 - Regulatory authorities;
 - Department of Environment and Nature Conservation;
 - Department of Agriculture, Forestry and Fisheries;
 - Department of Agriculture and Rural Development;
 - Department of Rural development and Land Reform;
 - South African Heritage Resources Agency;
 - Local authorities;
 - John Taolo Gaetsewe District Municipality;
 - Joe Morolong Local Municipality; and
 - Applicable Ward Councillors.

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STATUS OF THE EXISTING ENVIRONMENT (1)

- Geology: The proposed project site is located in the Kalahari Basin which is a manganese hotazel iron formation. The Kalahari basin is approximately 56 km and has a width varying between 5 and 20 km. The hotazel iron formation consists of the upper, middle and lower manganese bodies. As part of the proposed project, the lower and upper manganese ore body will be targeted.
- Climate: Northern Steppe Climatic Zone. Semi arid regions characterised by seasonal rainfall (250mm to 500mm) generally in form of thunderstorms. Prevailing wind direction is southeast.
- Soils and land capability: Soils types are homogeneous in terms of texture, structure, and soil depth and consist of deep (>1.5m) windblown sand of the Hutton soil form. Soils at the mine have a low cultivation potential due to the high infiltration rates associated with sandy soils.
- Land use: Land uses surrounding the mine include a combination of livestock grazing, mining, railway, road, powerline and sparsely situated residences.

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STATUS OF THE EXISTING ENVIRONMENT (2)

- Plant life: Located within the Kalahari Plains Thorn Bushveld which is characterised by flat sandy plains with habitat types such as *Vachellia haematoxylon* Savannah, *V. mellifera* Mixed Woodland, *V. erioloba* (Camel thorn) Savannah, *Schmidtia kalahariensis*–*Prosopis glandulosa* Shrubland, *Tarchonanthus comphorates*–*Schmidtia pappophoroides* Scrub, and secondary vegetation. A few of the dominant tree species present such as *Vachellia erioloba*, *V. haematoxylon* and *Boscia albitrunca* are protected in terms of the National Forests Act of 1998.
- Animal life: Very little evidence of wild faunal populations is associated with the proposed project area due to the presence of current and past mining as well as previous farming activities. Red data bird species that are likely to occur within the proposed project area include the Martial Eagle, Secretary bird and the Ludwig's Bustard. Red data mammal species likely to occur include the Honey badger, the South African hedgehog, the Dent's horseshoe bat and Schreiber's long-fingered bat.

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STATUS OF THE EXISTING ENVIRONMENT (3)

- Surface water: The proposed project site is located in quaternary catchment D41K which has a gross total catchment area of 6 330km². The Gamagara River and Vlermuisleegte is situated ~ 7km to the west and south-west of the mine. The Witleegte forms the north eastern boundary of the mine. The Gamagara River is considered ephemeral as the river only exhibits surface flow during periods of heavy precipitation. There is no third party reliance of surface water resources.
- Groundwater: Two aquifers are present within the proposed project area, namely the local calcrete aquifer and the deeper banded iron formation aquifer. The average ground water level at the proposed project site is ~ 25m. Groundwater quality is generally poor due to elevated concentrations of nitrate and chloride. The dominant groundwater flow is in a north-eastern direction towards the Gamagara River. The majority of boreholes surrounding the proposed project area are used for domestic use and livestock watering purposes.

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STATUS OF THE EXISTING ENVIRONMENT (4)

- Air quality: Apart from the current UMK Mine operations, various activities in the area have potential to contribute to the emission of pollutants. These pollutants include: fugitive dust from veld fires, wind erosion from open areas, dust generated by paved and unpaved road travelling, agricultural activities, vehicle tailpipe emissions, emissions from neighbouring mines, household fuel combustion, and rail-related fuel combustion.
- Noise: The greater area is generally defined by rural features and is not subjected to elevated noise levels. Existing noise in the project area is mainly caused by surrounding farming activities, localised traffic, train movements, mining operations and natural sounds.
- Visual: The UMK Mine is located within the flat open plains of the Kalahari. The site is rural in nature as it is sparsely populated with farmhouses scattered throughout the area. The existing mining operations (on site and adjacent to the site) and construction activities have already affected the sense of place and natural visual character of the area.

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STATUS OF THE EXISTING ENVIRONMENT (5)

- Heritage/cultural & palaeontological resources: No significant heritage resources or cultural materials have been found to occur at the UMK Mine.
- Socio-economic: The town of Hotazel is located approximately 10km north of the proposed project area. Farm houses are the closest settlements to the mine and are located within a 1km radius. There is a high level of unemployment with a dependency on subsistence agriculture, the public sector, seasonal workers and employment in the mining sector. Water provision and sanitation remains a challenge, mostly in the rural areas.

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POTENTIAL ENVIRONMENTAL IMPACTS (1)

- Loss of soil and land capability;
- Physical destruction and general disturbance of biodiversity;
- Contamination of surface water resources;
- Alteration of natural drainage patterns;
- Contamination of groundwater resources;
- Lowering of groundwater levels and reducing availability;
- Air pollution;
- Noise pollution;

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POTENTIAL ENVIRONMENTAL IMPACTS (2)

- Hazardous excavations and infrastructure
- Negative visual views;
- Loss of heritage and palaeontological resources;
- Inward migration impact and economic impact;
- Blasting impacts;
- Change in land use;
- Loss and sterilisation of mineral resources;

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PUBLIC PARTICIPATION PROCESS (1)

- Submission of NEMA/NEM:WA application to DMR (31 January 2017).
- Initial comments for inclusion in the scoping report in writing via fax, e-mail or in person to SLR Africa (31 January 2017).
- Scoping Report will be available for public comment (10 February 2017):
 - Summary (English and Afrikaans): via post, fax and e-mail;
 - Scoping report (English): at public venues;
 - Suggested venues (Joe Morolong Local Municipality, John Taolo Gaetsewe District Municipality, Hotazel Public Library and Kathu Public Library, Black Rock Library, [SLR website](#)).
- Regulatory authorities and IAPs: 30 days to submit comments on the scoping report in writing via fax, e-mail or in person to SLR Africa.

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PUBLIC PARTICIPATION PROCESS (2)

- Competent authority (DMR) review (15 March to 26 April 2017): 43 days to accept scoping report or refuse application.
- Conduct specialist investigations and complete EIA/EMP report
- Regulatory authorities and IAPs: 30 days to submit comments on EIA/EMP report
- Competent authority review: 107 days to refuse or grant environmental authorisation

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SPECIALIST INVESTIGATIONS

- Air Quality impact assessment
- Surface Water – side wide and operational water balance update
- Groundwater impact assessment
- Geochemical and Waste impact assessment
- Soil and Land Capability impact assessment
- Biodiversity study update
- Socio-Economic impact assessment
- Noise impact assessment
- Vibrations and Blasting impact assessment
- Heritage impact assessment and Palaeontological desktop study
- Closure costing update

As part of the process, the stormwater management plan will be updated.

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QUESTIONS, COMMENTS AND QUERIES

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PUBLIC PARTICIPATION AND ENVIRONMENTAL CONSULTANTS

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CLOSE

Thank you for you time and participation

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