

## 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
  - Sets out potential impacts to be assessed further and how these investigation will be done
  - Compilation of scoping report
- Environmental Impact Assessment (EIA) and Environmental Management Programme (EMP) phase
  - Assessment of impacts of the proposed project on the environment
  - Identification of management measures
  - Compile EIA and EMP report

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## Environmental Process (3)

### Permissions to be obtained:

- Environmental authorisation (DENC)
- Decision on EMP Amendment (DMR)
- Water use licence for new water uses (DWA)
- Waste licence for the expansion of the sewage plant (DEA)
- Air Emissions License for the expansion of the diesel storage facility (DENC)

### Local authorities

- Joe Morolong Local Municipality
- John Taolo Gaetsewe District Municipality

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## Status of the existing environment

- **Geology:** Tshipi Borwa Mine is located in the Klahari Basin which is a manganese hotazel iron formation
- **Climate:** Northern Steppe Climatic Zone. Semi arid regions characterised by seasonal rainfall (386mm to 455mm) generally in form of thunderstorms. Prevailing wind direction is southeast.
- **Topography:** The mine is located in a relatively flat area with a gentle slope towards the North West. The elevation on site varies from 1087 m to 1107 m above mean sea level (mamsl).
- **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.

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## Status of the existing environment

- **Land use:** Land uses surrounding the mine include a combination of livestock grazing, game farming, mining, railway and sparsely situated residences.
- **Animal life:** Several bird and mammal species are likely to occur on site. These include, the Northern Black Korhaan, the Longbilled lark, the Grey hornbill, Chat Flycatcher, Steenbok, Duiker, Suricate, White-tailed Mongoose, Molerat, and ground squirrels. It should be noted that the animal life population in general has been disturbed due to the existing Tshipi Borwa Mine, Mamatwan and UMK activities and pre-mining activities such as farming and prospecting.

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### Status of the existing environment

- **Plant life:** The Tshipi Borwa Mine falls within the Kathu Bushveld and consists of three habitat/vegetation types. These habitat/vegetation types include the *Acacia haematoxylon Savannah*, *Mixed Acacia Savannah* and *Grewia Flava Scrub*.
- **Surface water:** The mine is located within Quaternary Catchment D41K. The closest watercourses to the mine are the non-perennial Vlermuisleegte ( $\pm 2$ km southwest), the non-perennial Witleegte ( $\pm 10$ km northeast), and the non-perennial Ga-Mogara ( $\pm 6$  km west). Surface water in the area may be used for livestock watering and limited domestic purposes. However, no reliable surface water use is possible from any of the watercourses (Gamogara, Witleegte, Vlermuisleegte Rivers) due to their non-perennial nature and related seasonal river flow.

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### Status of the existing environment

- **Groundwater:** Two aquifers are present beneath the mine, namely a shallow aquifer comprising Kalahari sands and calcrete and a deeper fractured aquifer comprising Dwyka clay and Moodraai dolomite formation. The average ground water level at the mine ranges from 20 m to 45m below ground level. Groundwater flows are in a west-north-west direction.
- **Air quality:** Apart from the current Tshipi Borwa 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 dirt road travelling, agricultural activities, vehicle tailpipe emissions, emissions from neighbouring mines, household fuel combustion, and rail-related fuel combustion

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### Status of the existing environment

- **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, and mining operations.
- **Visual:** The Tshipi Borwa 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.
- **Heritage/cultural & palaeontological resources:** No significant heritage resources or cultural materials have been found to occur at the Tshipi Borwa Mine.

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### Status of the existing environment

- **Socio-economic:** Farm houses and farm worker residences are the closest settlements to the mine and are located within a 2km 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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### Anticipated environmental aspects associated with the proposed project

- Loss and sterilisation of mineral resources (associated with backfilling of tailings material in the open pit)
- Hazardous excavations and infrastructure
- Soil and land capability
- Biodiversity (Loss of Fauna and Flora)
- Surface water (Alteration of drainage patterns and pollution of surface water resources)
- Groundwater (Contamination of groundwater)
- Air (Contribute additional air pollution)
- Visual
- Heritage
- Land use
- Socio-economic (Positive and negative socio-economic impacts)

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### Questions, Comments and Queries

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### Way forward

Scoping Report public and authority review (August 2013)

- Summary (English/ Afrikaans): per post and e-mail
- Scoping report (English): at public venues
- Suggested venues:
  - o Joe Morolong Local Municipality
  - o John Taolo Gaetsewe District Municipality
  - o Hotazel Public Library
  - o Kathu Public Library
- Regulatory authorities and IAPs: 40 days to submit comments

Conduct specialist investigations and complete EIA

Stakeholder feedback meetings in EIA Phase and opportunity to review EIA and EMP report

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Close

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**APPENDIX 3: RECORD OF ISSUES RAISED AND RESPONSES GIVEN**

ISSUE RAISED	NAME	RESPONSE GIVEN
<p><b>Technical/project-related issues</b>                      Why are there changes being made to the currently approved infrastructure?</p>	<p>Hendrik Venter</p>	<p>The proposed changes will allow for an improved infrastructure layout to better cater for the mine requirements. As indicated on Slide 4 of the presentation, this includes the relocation of the waste rock dumps so as to prevent the sterilisation of minerals in the pit, relocation of the office, plant and related infrastructure, design and capacities change of the stormwater dams, changes to the design of the railway, the establishment of an additional stormwater dam, the relocation of the low grade and fines stockpiles, expansion of the existing sewage treatment plant, expansion of the existing diesel storage facility, and use of tailings material to back fill the open pit.</p>
<p>With reference to the baseline environment, I would like to suggest that the prevailing wind direction is in fact not south east but rather north east.</p>	<p>Protea Leserwane</p>	<p>The weather data used for the purposes of the presentation we sourced from the Kuruman station. It is agreed that the prevailing localised wind direction is north east. The report will reflect this.</p>



Project: Tshipi EMP Amendment Project

SLR Company: SLR Consulting (Africa) (Pty) Ltd

Date: 30 July 2013

Meeting: Hotazel Recreational Club – General Scoping Meeting



Name and Surname	Interest/ Designation/ Farm	Postal address	Contact numbers	E-mail
Suam Mulder	SLR	PO Box 1596 Cramerivier 2060	011 467 0945	smulder@slrconsulting.com
caitlin Pringle	"	"	"	cpringle@slrconsulting.com
Sathini Ramakoojath	"	Box 8 Hotazel 8490	0825077716	Camel@telkomal.co.za
Nhabeleeng Peneng	Tshipi Borwa Mine	Mamabuan 331 P.O. Box 2098 Kertur, Gule	053 739 4900	Nhabeleeng@tshipi.co.za
Sam FIFE	Evuvuvuvu Rust farm	P.O. Box 255 Bloomfontein 9200	051 408 2565	SAM.FIFE@RUSTFARM.NET
ROSTA LESERAKE	UMK-MINE	PRIVATE 840 X 1532 ON 42, KURURUMU, 8460	082 940 1876	ROSTA@DMPHLEKIBO.COM
Trudy Muelau	UMK Mine	"	079 451 9151	Trudy.Muelau@UMK.co.za
JEFF LEADER	Tshipi é Ntsha / Msimbizi	P.O. Box 381 Kathu, 8446	082 499 8001	jeff@tshipi.co.za
Ben	BHP	P.O. Box 179 Hotazel	073 2066954	

10 Cortina Street

Wrenchville

Kuruman

8468

15 July 2013

Tshipi E Ntle Manganese Mining

Dear / Sir Madam

**APPLICATION FOR ANY VACANT POSITION**


I hereby apply for any vacant post at your company.

I am a hard worker. I make sure I achieve the best results in everything I do. I am sincere person, determined, loyal and responsible with good communication Skills.

With the experience I acquire over the years, I believe my involvement with your business will bring a significant contribution towards the growth and stability of the company.

Therefore I believe this letter will serve as an invitation for an interview.

Yours sincerely,



Mr. E. Cloete

CURRICULUM VITAE

OF

EPHRAIM JOHANNES CLOETE

**PERSONAL INFORMATION**

Surname:	Cloete
First Names:	Ephraim Johannes
Date of Birth:	30 December 1973
Identity Number:	731230 502 708 0
Citizenship:	South African
Gender:	Male
Race:	Colored
Marital Status:	Married
Dependants:	03
Home Language:	Afrikaans
Other Languages:	English
Fully Bilingual:	Yes
Health:	Excellent
Contact Number:	073 203 8808
Home Address:	7a Spreeu Street Wrenchville Kuruman 8460





### EDUCATIONAL QUALIFICATIONS

High School Qualifications: Grade 10

Subjects Passed:

Afrikaans  
English  
Geography  
Biology  
Economics  
Business Economics

### TECHNICAL QUALIFICATIONS

NTC 2\3: Electrical Trade Theory  
Industrial Electronics  
Logic Systems  
Radio & TV Theory

NTC 4: Mathematics

Industrial Electronics  
Electro Techniques  
Fault Finding & protective Devices  
Computer Principles

NTC 5\6:

Logic Systems  
Industrial Electronics  
Computer Principles

### CERTIFICATES

- ❖ Electrical Modular Training (NTTI) (1995-1996) (MERSETA)
- ❖ Boilermaker Modular Training (NTTI) (1996-1997) (MERSETA)
- ❖ Radio Serving (Diploma) (Milwaukee School) (1993-1994)
- ❖ JV, VCR, Satellite Dish installation (Athlone Technicon Training Centre) (2000).
- ❖ Electrical Construction Modular Training (ECA) (2001)
- ❖ Introductory Computer Practice NTC4 (Kathu College)
- ❖ (MQA) MODULAR Training Electrical

  
**WORK EXPERIENCE**

**Company:** South African National Defence Force  
**Period:** 1990-1991  
**Position:** Rifleman (voluntary)

**Company:** Okiep Copper Company  
**Period:** 1996-1997  
**Position:** Boilermaker Aid

**Company:** Okiep Copper Company  
**Period:** 1997- 1998  
**Position:** Boilermaker Aid  
**Tasks** Building water pipelines

**Company:** Alladin Electronics  
**Period:** 1998-1999  
**Position:** Repair Technician  
**Tasks** Radio & Audio Equipment

**Company:** De Tiger Electrical Electrician  
**Period:** 2001  
**Tasks** Installation & wiring.

**Company:** Alpha Electronics  
**Period:** 2002-2005  
**Position:** Electrical Electronics Technician  
**Tasks** Repairs & Installation Electrical  
Electronic Equipment

**Company:** Noeth Constructions  
**Period:** 2005-2006  
**Position:** Electrical Sub Contractor  
**Tasks** House wiring  
Installation 220V/380V

**Company:** Transtate  
**Period:** 2006-2007  
**Position:** Electrical Contractor  
**Tasks** Electronic Technician (2005- 2007)  
Repairs Electrical  
Electronic Systems 12v, 24v, 220v, 380v.  
Fuel Automation  
Oil Pumps.



**Company:** Track Star  
**Period:** 2007- 2009  
**Position:** Electrician  
**Tasks** Installation & Wiring 220v- 380v

**Company:** Crofnett  
**Period:** 2009-2010  
**Position:** Electrician  
**Tasks** Installation & Wiring  
Maintenance 220v, 380v

**Company:** Wade Walker  
**Period:** 2009  
**Position:** Electrician  
**Tasks** Building Plant Ndwaneng 2 Black Rock

**Company:** Jormid Electrical  
**Period:** 2009- 2011  
**Position:** Electrician  
**Tasks** Re Build Rope Shovels  
Drill Rigs

#### REFERENCES

**Maintenance Manager**  
Transstate:  
Thomas Van Graam  
083 708 6668

**Mr. Peter Van Der Westhuizen**  
Manager  
Track Star Trading  
083 264 6310

**The Site Manager**  
Jormid Electrical  
076 042 6119

- Attend workshops/ courses with the management of government protocol, policies & legislative framework.
- Maintain the calendar of appointments and mail- ensuring that the CHIEF DEPUTY COMMISSIONER is kept abreast of all appointments and changes as well as matters requiring immediate attention.
- Arrange meetings and conferences with privates/ public sectors upon request.
- Compiling a financial report within the different Directorate's.
- Provide overall strategic, direction and leadership in the office of the CHIEF DEPUTY COMMISSIONER.
- Oversee the provision of an effective executive support for the office of the CHIEF DEPUTY COMMISSIONER.
- Operate the computerized post tracking system at the different directorates, combined and combined statistics on a monthly basis to the CDC OFFICE..
- Knowledge to operate on electronic document management system and do quality control of documents.
- Manage outgoing correspondence in the office of the CHIEF DEPUTY COMMISSIONER.
- Provide management support to the CHIEF DEPUTY COMMISSIONER.
- Manage the filling system in the office of the CHIEF DEPUTY COMMISSIONER.
- Ensure that the office functions properly during the absence of the CHIEF DEPUTY COMMISSIONER.
- Prepare and submit travel claims for approval and payment at Logistics.
- Creating PowerPoint presentations and Excel documents.
- Perform internet research and trouble shoot the latest technology in the office.
- Develop spreadsheets, write correspondence, supervise databases and produce presentations, reports and documents as they use desktop publishing software and computer graphics.
- Assist, maintain small amount of clerical tasks as opposed to other positions including organizing of conference calls, scheduling of meetings as well as more complex responsibilities such as performing research, planning statistical reports, teaching employees, and directing other clerical staff.
- Organize correspondence and official documents such as summons, complaints, motions, responses and subpoenas.
- Assist Legal journals and aid with legal research, such as confirming quotes and credentials in legal briefs.
- Knowledge of computer programs dealing with spreadsheets.
- Liaise with stakeholders with regard to general queries and provide assistance / information.
- Make logistical arrangements for meetings and workshops.
- Assist with procurement of goods and services for the office.
- Make travel arrangements for investigators.
- Taking minutes and perform other office administration related functions.



- Manage the filing system.
- Assist other managers in the office with related administrative functions, such as making photocopies, faxing documents e.t.c.
- Assist with personal tasks within an agreed framework.
- Prepare meeting files for the Directorate.
- Do Petty cash administration.
- Telephone and asset management.
- Give support to other Personal Assistants, Administrative Secretaries as well as Administration Clerks.

#### **CASE MANAGEMENT SUPERVISOR (MAY 2008 - CURRENT)**

- Make sure that member report on time- daily; check that members sign for safety equipment upon arrival.
- Check that registers be kept up to date; inspection of cells (Neatness of offenders, cells and courtyards) and see to it that shafts are clean daily.
- Supervision during unlock and lock up; see to it that enough members are present during exercise and the dishing out meals.
- Checked that complaints and Medical complaints are handled daily; has been register in the complaints and request register and those complaints are captured before the end of the month on the computer.
- Identify and report training of staff and the financial implication of the training before recommend it to the higher level for approval.
- Does the Merit assessments of her supervisee's and make sure that there's no unfair treatment of members and appraise staff for their performance during the year.
- Counseling of staff, assisting with problems and in finding appropriate solutions.
- Supervisee staff in executing their duties on a professional level, provides support to supervisee's and security officers and offenders.
- Arrangement of the duties of the staff in the unit and ensure consistent system of activities every day.
- Attend Senior Management meeting, OSH ACT, Corrections PMC, Club Committee and Union Meetings with Senior Managers.
- Investigate and deal with incidents, surpluses and losses.
- Ensure that offenders are aware of what is expected of them; that they do not escape or cause any harm to the rest of the offenders.
- Identified and deal with security issues within the centre.
- Make sure that every offender has the basic needs and that there is enough accommodation for all offenders.
- Maintain control of discipline of members and offenders.

- Ability to facilitate decision making at higher level and interact extensively with Senior Management.
- Strong understanding of the concept of service delivery, knowledge of government policies.
- Extensive understanding and experience in managing funded projects in the department and outside EG VOD, IMBIZO, and Batho Pele Principles.
- Check and control all registers, Key registers- members to sign keys registers when obtaining keys. Changing of keys must be complied at the keys all times.
- Movement register, by admitted of offenders must be kept at all times and also when offenders go out for bail, fines etc.
- Did the financial administration like the budgeting of funds and is accountable for expenditure in terms of the section.
- Did personnel administration included: determining the duty rooster / leave arrangements, Merit Assessments of staff, Disciplinary action against staff, and the personnel development and counseling of staff.

#### REFERENCES:

1. Mr. Kallan JP  
Deputy Director (Departmental Investigation Unit)  
Correctional Services  
National Head Office (Pretoria)  
(012) 307 2038
2. Mr. Murphy O  
Head: Kuruman Correctional Centre  
Tel: (053) 712 0006/7 Ext 103  
Mobile: 082 337 3604
3. Mr. Galant OD  
Kuruman Correctional Centre  
Operational Support  
Tel: 053 712 000 6 /7  
Mobile: 073 377 0502

Private Bag 1511  
Kuruman  
8460  
11 July 2013

Tshipi E Ntle Manganese Mining  
Kathu

Dear Sir/ Madam

**RE: APPLICATION FOR ANY VACANT POSITION**

Kindly be pleased to receive the application hereto attached, are copies as under listed.

- A Motivation letter
- My Curriculum Vitae
- Identity Document

The same is forwarded to receive consideration irrespective of application for vacant any vacant post.

The contents contained in every sheet hereto attached are true in every respect, and know to my conscience that, any information, not correct is aimed at misleading the attention giver, the same regarded as illegal.

Hope my application will receive your consideration.

Regards,



Ms. Bezuidenhout SC

I am a 30 year old female serving in department of Correctional Services with 9 years service serving with pride. I'm currently working as a Case Management Supervisor and am entrusted with full responsibility for running the unit which consist of 10 case officers, 03 security officers and 150 offenders which I'm supposed to deal with on a daily basis.

My daily tasks include but are not limited to:

- General Manager of the unit convicted Adult section and the work entail attending to individual complaints and maintain a good relationship between offenders and the service providers (officials).
- As part of administration duties which include typing, checking and controlling case files, registers, financial management, Supply chain management, and submit monthly statistics to HCC, Do investigations, be initiator at Formal disciplinary hearings. Asset Controller in my Unit. Appointed as Activity Control Manager (personal Hygiene),
- Ability to facilitate decision making at higher level and interact extensively with Senior Management.
- Strong understanding of the concept of service delivery, Knowledge of government policies.
- Extensive understanding and experience in managing funded projects in the department and outside EG VOD, IMBIZO, and Batho Pele Principles.
- Attended First Aid courses, Disciplinary Hearing, Do investigations, be initiator at Formal disciplinary hearings.
- Is part of the OSH Act team, Secretary of the General Club, Secretary of the Union, secretary on some disciplinary hearings if not the Initiator.
- Chairperson of the Inventory controller team.
- As you can see I have the following Skills, Leadership and Management, Computer skills, Project Management EG. IMBIZO, VOD, Batho Pele, Communication, Creativity, Qualification, Training and experience.
- Attending meetings with management team in request to reach the primary objectives of the department of correcting the offender's behavior.
- Amongst my work related tasks I'm a motivational officer to all offenders to whom their rehabilitation process is entrusted upon me. I'm determined, assured and committed hard worker. I strive for perfection and success in everything I do.
- I am eager in completing whatever task entrusted unto me to the best of my ability.
- I can stay strong when the environment changes and need adaption of highest caliber.
- I am acquainted to work in a team and my skills of working in a team are what lead to the post of Unit Management Supervisor.
- I do my duties in a manly fashion and as a good leader I act in the interest of the people surrounding me.



I'm looking forward to be a meaningful employee to your company and contributing immensely at reaching the companies aims and objectives.

I would avail myself for an interview at any time should my application be considered.

Kind Regards,

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Ms Bezuidenhout SC

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Curriculum Vitae  
Of  
Sue-Allen  
Catherine  
Bezuidenhout

**CURRICULUM VITAE****SUE- ALLEN CATHRINE BEZUIDENHOUT****BIOLOGICAL DATA:**

First Name: Sue- Allen Cathrine  
Surname: Bezuidenhout  
Contact Details: Work: 053 712 0006 / 7 Ext x122 /119/ 142  
Mobile: 082 531 9804  
Facsimile: 053 712 0040  
Residential Address: 7A Spreeu Street  
Wrenchville  
Kuruman  
8468  
Identity Number: 820904 0063 082  
Date of Birth: 04/09/1982  
Health: Excellent

**EDUCATIONAL QUALIFICATIONS****SCHOOL QUALIFICATION**

Last School Attend: Wrenchville Secondary School  
Qualification Attend: Grade 12  
Year obtained: 2001

**SUBJECTS PASSED:** Afrikaans  
English  
Business Economics  
Biology  
Geography  
History

**TERTIARY QUALIFICATION**

Name of Institution: HAVA- Tech Pretoria  
Year Obtained: 2002  
Qualification Obtained: Computer Literacy & Office Administration  
Subjects Passed: Introduction to Computing  
Basic of Windows Environment  
Microsoft Word  
Microsoft Access  
Microsoft PowerPoint  
Microsoft Excel  
Effective Business Communication  
Running the Modern Office

**EMPLOYMENT HISTORY**

**COMPANY:** NICRO- National Institute for Crime prevention and the Reintegration of Offenders

**JOB TITLE:** Receptionist / Office Assistant

**FUNCTIONS PERFORMED: (FEBRUARY 2003- SEPTEMBER 2004)****RECEPTIONIST / OFFICE ASSISTANT**

- Answer, Screen and redirect incoming calls to various social workers as well as taking messages if members are not available.
- Manage incoming / outgoing correspondences of the Managers Office.
- Managing appointments and arranging meetings.
- Manage an electronic diary / instruction booklet to make appointments and scheduling of meetings and daily activities.
- Typing and formatting of letters, memorandums and documents and additionally provide a document management support to the Manager.
- To effectively execute all administrative duties e.g. booking of venues; responsible for venue preparation, food preparation, refreshments and technical assistance at meetings.
- Ensure proper record keeping and manage the filing system in the Managers office.

- Provide administration support and ensures the smooth running of the General Meetings.
- Conducting and organizing office administrative duties and events, as well as receiving and handling information for distribution to staff and clients.
- Maintaining the daily register of the Directorate as a whole.
- Handling travel arrangements and follow the logistical procedure.
- Serve as an information manager, organizing and preserving paper and computer files, managing projects, performing research and distributing information through the use of telephones, mail and e-mail.
- Co- ordination of telephone and cell phone expenses.
- Responsible for the handling of petty cash, expenditure and the safe keeping of money.
- As an office administrator I did messenger service (do banking and posting for the office).
- Assist with the managements personal / private matters within an agreed framework.
- Overall executive support services to the office of the Manager and Social workers.

**COMPANY** Department of Correctional Services

**JOB TITLE:** Personnel Clerk / Administration Clerk / Secretary /  
Case Management Supervisor

**FUNCTIONS PERFORMED: (SEPTEMBER 2004- JANUARY 2005)**

**PERSONNEL CLERK**

- Manage records management systems.
- Acquire & manage electronic documents management systems.
- To ensure that all injury- on - duty are reported and all claims arising there for are administered according to the appropriate Acts and ordinances.
- Responsible for the administration of the housing guarantees for members staying on the premises.
- Capturing of leave credits and records on the system.
- Liazation of files in an A-Z filing cabinet.
- Handling in coming / and outgoing mail.
- Operates the computerized post- tracking system.
- Knowledge to operate an electronic document management system and able to do quality control documents.

**ADMINISTRATION CLERK / TRANSPORT CONTROLLER (FEBRUARY 2005 – JUNE 2006)**

- Register all cases received on the LESEDI data base and allocate the cases to the different investigators.
- Mann the internal hotline and handle all telephonic enquiries from members, offenders and the public concerning corruption related issues.
- Handling of cases which is confidential and to be investigated according to the different categories.
- Registered all complaints received in relevant registers and give feedback to complaints within 14 days on the manner which the compliant is handled.
- Give information for all statistics obtained from the registers and LESEDI database on a monthly basis and must be completed on time.
- Keep proper records of all case files leaving the administration office through the relevant case registers.
- Maintain a filing system as per file plan and ensure all documents are filed on the correct file plan as per file plan.
- Arrange meetings; assist with the preparation of agenda of meetings, taking of minutes at the meetings as well as during investigations.
- Processing of payments for purchasing orders is done monthly within the required payment date.
- Perform all legitimate ad-hoc duties and tasks delegated by the Directors within set time frames and within set standards.
- Give full support to Directors and investigators for example: Participate in internal and external workshops / serve on the internet for information pertaining investigations.
- To render services to the community with reference to corrupt related issues within the Department of Correctional.
- Working as a transport controller and ensure that all transport registers are up to date, booking of vehicles are done in advanced, inspect trip sheets and vehicles before and after journeys.
- Booking of flights for investigators to various places to conduct investigations.
- Attend regular meetings with Director's / Commissioners to update them on all work performed, both formally and informally.
- Manage finances and resources entrusted into my care by keeping of all money spend and assist the Director's with the internal budget, finance planning and maintenance.
- Ordering of all uniforms, office equipment and stationary.
- Liaise with other government departments, agencies and organizations.

**SECRETARY (JULY 2006 - APRIL 2008)**

- Receive visitors in the office the Director and office of the Chief Deputy Commissioner.
- Answer, screen telephone incoming calls.
- Manage the Director's dairy and the directorate's activities calendar.
- Manage and correspondence by receiving and distributing documents.



## Caitlin Pringle

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**From:** WESSA Northern Cape <wessanc@yahoo.com>  
**Sent:** 09 July 2013 12:54 PM  
**To:** Caitlin Pringle  
**Subject:** Re: Meeting Invitation

Dear Caitlin

Thank you for the invitation.

Unlike most other Regions, the Northern Cape Region of WESSA is unstaffed, and run by a group of volunteers. We currently have nobody on our Committee to handle the Conservation portfolio, and pressure of work means that we are not able to attend meetings or participate in Environmental Impact Assessments at this time. **Please note that a lack of response does not mean that we condone this project; it simply means that we do not have the capacity to respond to all correspondence received.**

In the interest of saving paper, trees and costs, **please do not post any hardcopies or discs to us, unless specifically requested.** We cannot currently deal with these and they will be destroyed.

**Our fax** 053 842 1433 belongs to the McGregor Museum, and **should only be used under exceptional circumstances**, and for single pages only. This is a communal machine, so please mark all documents clearly 'WESSA', or direct them to me by name. **We prefer to communicate by e-mail.**

Should your project fall outside the Northern Cape Province, consult our website [www.wessa.org.za](http://www.wessa.org.za) for the contact details of the relevant WESSA office.

Please do not hesitate to contact me should you require any further information.

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Suzanne Erasmus  
Chairperson  
WESSA (Northern Cape Region)  
PO Box 316  
8300 Kimberley  
Tel 053 839 2717 w  
Fax 053 842 1433 w  
Cell 082 849 7655  
wessanc@yahoo.com  
<http://www.wessa.org.za>

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**From:** Caitlin Pringle <cpringle@slrconsulting.com>  
**To:**  
**Cc:** Natasha Daly <ndaly@slrconsulting.com>  
**Sent:** Tuesday, 9 July 2013, 11:14  
**Subject:** Meeting Invitation

Dear Sir/Madam

Tshipi é Ntle Manganese Mining (Tshipi) (Previously known as Ntsimbintle Mining (Pty) Ltd) currently operates the developing Tshipi Borwa Mine located on the farms Mamatwan 331 and Moab 700, to the south of Hotazel in the John Taolo Gaetsewe District Municipality in the Northern Cape Province.

The mine currently holds an approval (NC/30/5/1/2/2/0206MR) from the Department of Minerals and Energy (currently known as the Department of Mineral Resources) and an approval (NC/KGA/KATHU/37/2008) issued by the Department of Tourism, Environment and Conservation (currently known as the Department of Environment and Nature Conservation).

As part of the environmental assessment process, you have been identified as a key stakeholder in the project's process who may be interested in hearing more about the proposed project and to provide input into the environmental assessment process.

In this regard, please see attached letter.

Kind Regards,

**Caitlin Pringle**  
**Environmental Consultant**  
SLR Consulting (Africa) (Pty) Ltd

Email: [cpringle@slrconsulting.com](mailto:cpringle@slrconsulting.com)

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SLR Africa (Block 7)  
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Fourways, Johannesburg, 2060  
South Africa



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ATTENTION: THEMBELA SUKAZI

**TSHIPI E N TLE MANGANESE MINING**  
**ENVIRONMENTAL SCOPING REPORT FOR THE CHANGES TO SURFACE INFRASTRUCTURE AT THE**  
**TSHIPI BORWA MINE**

*DMR Reference Number: NC/30/5/1/2/2/0206MR**DEA Reference Number: 12/9/11/L1259/8**DENC Reference Number: NC/EIA/08/JTG/GAM/TSH1/2013 / NCP/EIA/0000229/2013*

Dear Thembela Sukazi

Please find attached one (1) hard copy and 20 summary documents (10 English and 10 Afrikaans) of the Environmental Scoping report for the changes to surface infrastructure at the Tshipi Borwa Mine, for public review.

Regulatory authorities and IAPs will be given until **Monday, 7 October 2013** to review the scoping report and submit comments in writing by means of either fax or email. Comments should be submitted in writing to SLR via fax (+27 11 467 0978) and/or e-mail [ndaly@slrconsulting.com](mailto:ndaly@slrconsulting.com).

If you have any questions about the proposed project or the EIA process, please do not hesitate to contact the undersigned.

Regards

Natasha Daly

E-mail: [ndaly@slrconsulting.com](mailto:ndaly@slrconsulting.com)

For SLR Consulting (Africa) (Pty) Ltd

*27 August 2013*





**TSHIPI é NTLE MANGANESE MINING**

**ENVIRONMENTAL SCOPING REPORT FOR THE CHANGES TO  
SURFACE INFRASTRUCTURE AT THE TSHIPI BORWA MINE**

**DMR REFERENCE NUMBER: NC/30/5/1/2/2/0206MR**

**DEA REFERENCE NUMBER: 12/9/11/L1259/8**

**DENC REFERENCE NUMBER: NC/EIA/08/JTG/GAM/TSH1/2013 /  
NCP/EIA/0000229/2013**

This is to certify that I

..... Thembela Sukazi .....

in my capacity as a representative of

.....Hotazel Library.....

have received the following documents:

**PLEASE COMPLETE AND TICK RELEVANT BOX**

_____1_____ hard copy, comprised of one (1) file, containing the Environmental Scoping report for the proposed changes to surface infrastructure at the Tshipi Borwa Mine.	<input checked="" type="checkbox"/>
20 summary documents (10 English and 10 Afrikaans) of the Environmental Scoping report for the proposed changes to surface infrastructure at the Tshipi Borwa Mine	<input checked="" type="checkbox"/>

Date: *27 August 2013*

Signature/ Stamp:



KATHU LIBRARY  
1 HENDRICK VAN ECK ROAD  
KATHU

ATTENTION: LIBRARIAN

**TSHIPI E NTL E MANGANESE MINING**  
**ENVIRONMENTAL SCOPING REPORT FOR THE CHANGES TO SURFACE INFRASTRUCTURE AT THE**  
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DMR Reference Number: NC/30/5/1/2/2/0206MR

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Dear Librarian

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If you have any questions about the proposed project or the EIA process, please do not hesitate to contact the undersigned.

Regards



Natasha Daly

E-mail: [ndaly@slrconsulting.com](mailto:ndaly@slrconsulting.com)

For SLR Consulting (Africa) (Pty) Ltd



27 August 2013





TSHIPI é NTLE MANGANESE MINING

ENVIRONMENTAL SCOPING REPORT FOR THE CHANGES TO SURFACE INFRASTRUCTURE AT THE TSHIPI BORWA MINE

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_____1_____ hard copy, comprised of one (1) file, containing the Environmental Scoping report for the proposed changes to surface infrastructure at the Tshipi Borwa Mine.	✓
20 summary documents (10 English and 10 Afrikaans) of the Environmental Scoping report for the proposed changes to surface infrastructure at the Tshipi Borwa Mine	✓

Date: *27 August 2013*

Signature/ Stamp: *[Handwritten Signature]*





**TSHIPI É NTLÉ MANGANESE MINING**  
**ENVIRONMENTAL SCOPING REPORT FOR THE PROPOSED CHANGES TO SURFACE**  
**INFRASTRUCTURE AT THE TSHIPI BORWA MINE**

**DMR Reference Number: NC/30/5/1/2/2/0206MR**

**DEA Reference Number: 12/9/11/L1259/8**

**DENC Reference Number: NC/EIA/08/JTG/GAM/TSH1/2013 / NCP/EIA/0000229/2013**

Dear Sir/Madam

## 1. INTRODUCTION

Tshipi é Ntle Manganese Mining (Tshipi) currently operates the developing Tshipi Borwa Mine located on the farms Mamatwan 331 and Moab 700, to the south of Hotazel in the John Taolo Gaetsewe District Municipality (previously known as the Kgalagadi District Municipality) in the Northern Cape Province. The project location is illustrated in Figure 1 and Figure 2.

The mine currently holds an approval (NC/30/5/1/2/2/0206MR) from the Department of Minerals and Energy (currently known as the Department of Mineral Resources) and an approval (NC/KGA/KATHU/37/2008) issued by the Department of Tourism, Environment and Conservation (currently known as the Department of Environment and Nature Conservation).

Tshipi is proposing to amend its approved Environmental Impact Assessment (EIA) and Environmental Management Programme (EMP) to cater for changes to its approved infrastructure layout that have already taken place as well as proposed changes. Changes that have already taken place at the Tshipi Borwa Mine include:

- the relocation of the two waste rock dumps;
- the relocation of the office, plant, workshop and related infrastructure;
- design and capacities change of the approved stormwater dams; and
- changes in the design of the railway siding.

Proposed changes to the approved infrastructure layout include:

- the establishment of an additional stormwater dam;
- the relocation of the low grade and fines stockpiles;

- the expansion of the existing sewage treatment plant;
- the expansion of the existing diesel storage facility;
- development of a boundary mining venture with the Mamatwan Mine; and
- a mixture of gravel, sand, waste rock and tailings material to backfill a portion of open pit.

SLR Consulting (Africa) (Pty) Ltd (SLR) has been appointed to manage the environmental authorisation processes.

As part of the project's environmental impact assessment (EIA) and environmental management programme (EMP) amendment process, a scoping report has been produced. The main purpose of the scoping report is to set out the terms of reference for the EIA and EMP amendment that will enable the meaningful assessment of all relevant environmental and social issues. This document provides a summary of the scoping report.

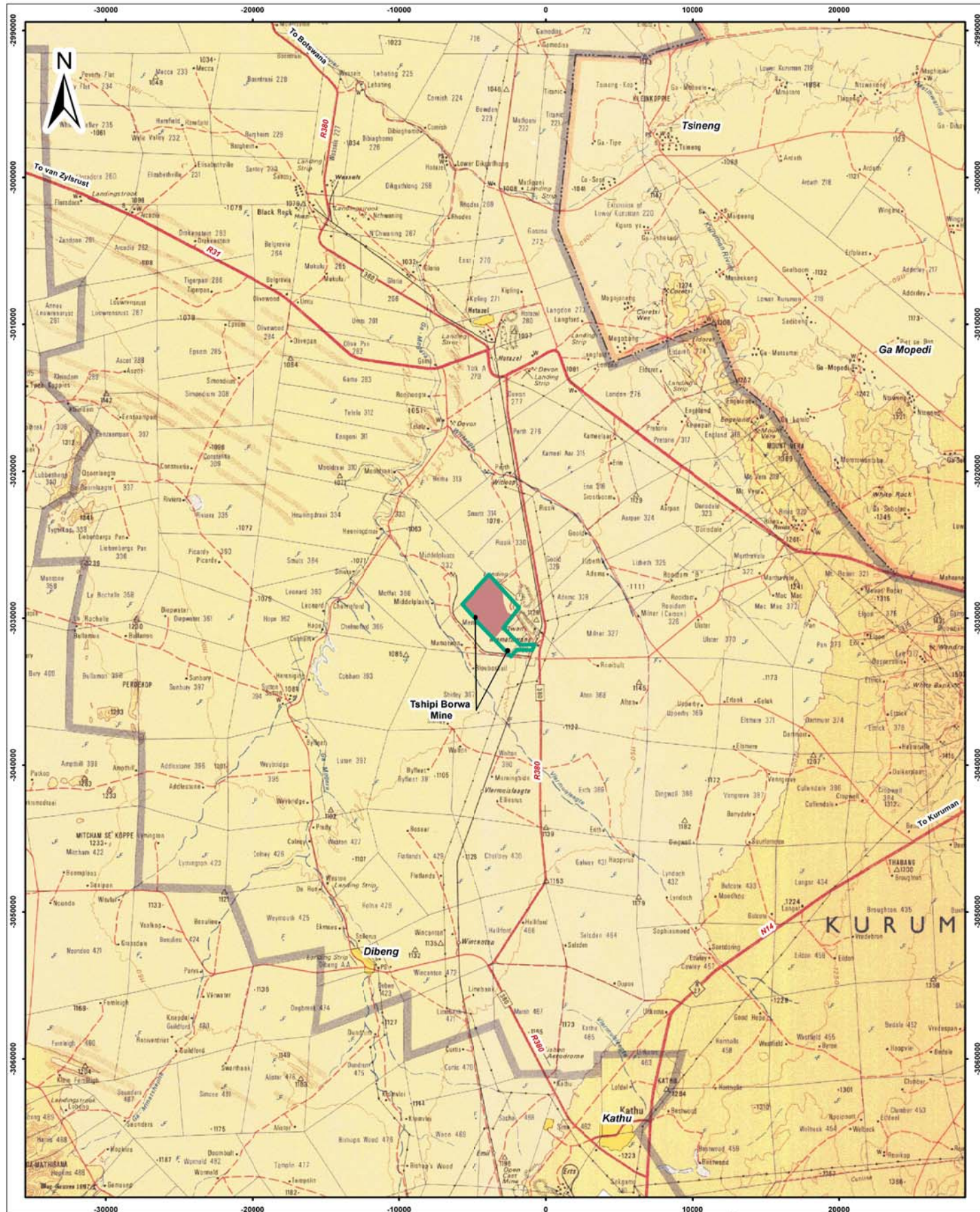
## **2. ATTACHED DOCUMENTS**

The following documents have been extracted from the scoping report for your review:

**Appendix 1:** Issues raised by interested and/or affected parties (IAPs) and regulatory authorities (appendix D of the scoping report).

**Appendix 2:** Terms of reference for further investigations (section 6.1 of the scoping report).





- Legend**
- Surface Use Area
  - Approved Mining Right Area

**TSHIPI E NTL E MANGANESE MINING**

**Figure 1**  
**Regional Setting**



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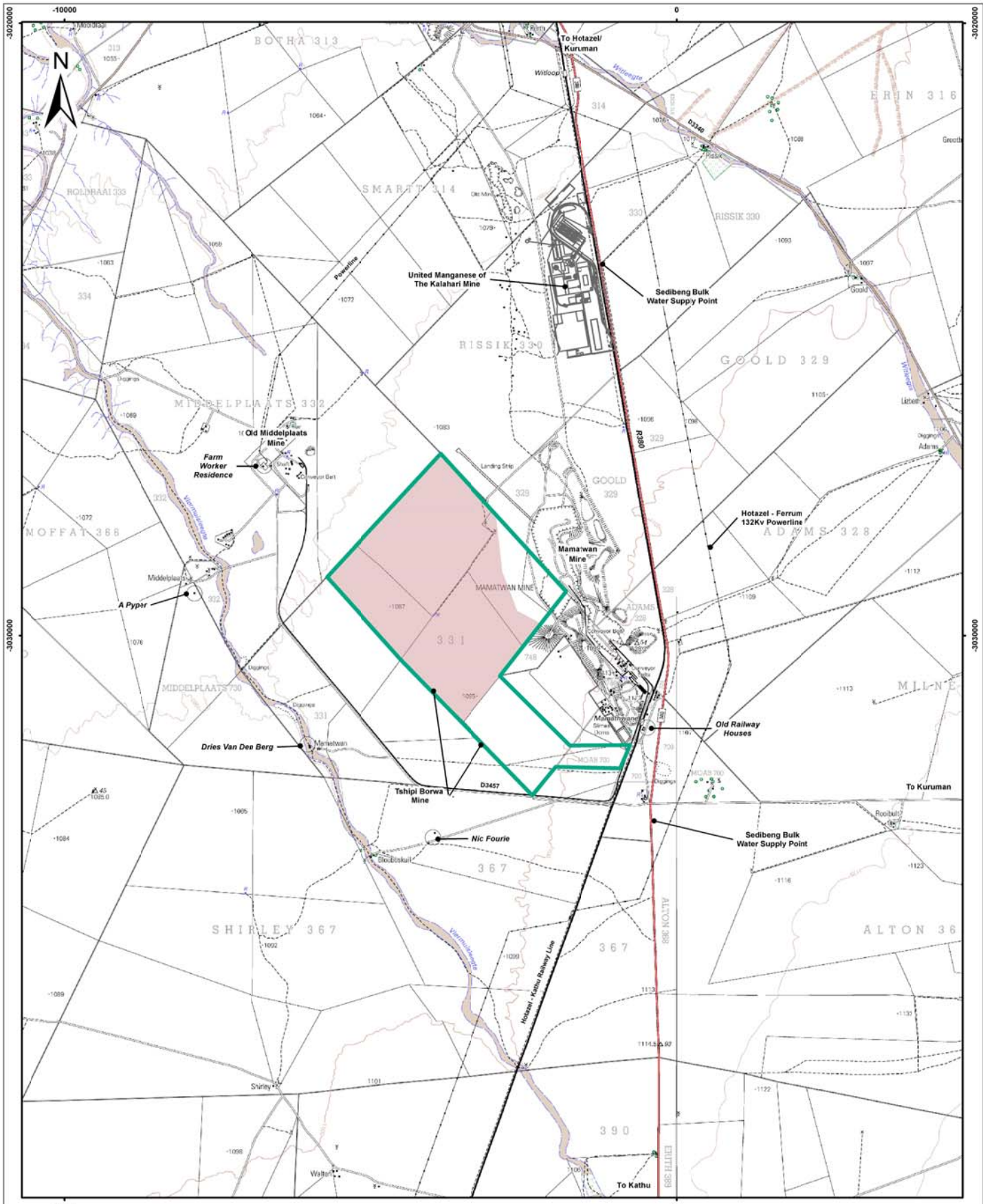
0 5 000 10 000  
Meters

Scale: 1:250 000 @ A3  
Projection: Transverse Mercator  
Datum: WGS1984, Lo23

710.20008 00008

July 2013





**Legend**  
 Surface Use Area  
 Approved Mining Right Area

TSHIPI E'NTLE MANGANESE MINING

**Figure 2**  
**Local Setting**



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0 1 000 2 000 Meters

Scale: 1:60 000 @ A3  
 Projection: Transverse Mercator  
 Datum: WGS1984, Lo23

710.20008 00008

July 2013

### 3. REVIEW OF SCOPING REPORT

The draft scoping report will be available for public review from **27 August to 7 October 2013**. Full copies of the draft scoping report will be made available for public review as agreed to during the scoping meetings at the following venues:

- Joe Morolong Local Municipality
- John Taolo Gaetsewe District Municipality
- Hotazel Public Library
- Kathu Public Library
- SLR's offices in Johannesburg
- Electronically on a CD, will be made available to IAPs on request.

Summaries of the draft scoping report will be sent by post or e-mail to all IAPs and authorities that are registered on the public involvement database. In addition, IAPs will be notified when the draft scoping report will be available for review via SMS.


### 4. PLAN OF STUDY FOR THE EIA/EMP

The main objectives of the EIA and EMP amendment phase are to:

- Complete the specialist investigations (July to September 2013)
- Submit Waste License Application to Department of Environmental Affairs (DEA) (July 2013)
- Distribute EIA and EMP amendment report to IAPs, Department of Mineral Resources (DMR) and other regulatory authorities for review (December 2013)
- Public feedback meetings with IAPs (February 2014)
- Forward IAP comments to DMR and submit final report inclusive of comments to DENC (March 2014)
- Circulate record of decisions

If you have any related questions please contact the undersigned.

Regards



Natasha Daly (Project Manager)

E-mail: [ndaly@slrconsulting.com](mailto:ndaly@slrconsulting.com)

For SLR Consulting (Africa) (Pty) Ltd

## APPENDIX 1: ISSUES RAISED TO DATE BY IAPS AND REGULATORY AUTHORITIES (APPENDIX D OF SCOPING REPORT)

ISSUE RAISED	BY WHOM AND WHEN	RESPONSE GIVEN BY EIA AND TSHIPI PROJECT TEAM (as amended for the purpose of the scoping report)
<b>Procedural issues</b>		
If all conditions of the mining license are applied then is it correct to say that there will be no additional changes? For example there will not be changes to include a housing scheme etc?	Andrew Pyper, comments raised at scoping meeting with authorities, 30 <sup>th</sup> July 2013	There are no additional changes proposed. The proposed changes are as have been laid out in the scoping report and discussed during the scoping meeting.
I am not against mining or any type of development, but it is important to ensure that that all parties are taken into consideration when such projects go ahead.		It has been noted that you would like to continue being consulted in the EIA process going forward.
<b>Technical/project related issues</b>		
How deep is the ore body?	Andrew Pyper, comments raised at scoping meeting with authorities, 30 <sup>th</sup> July 2013	The depth of the ore body ranges from 130 to 270 metres.
Why are there changes being made to the currently approved infrastructure?	Hendrik Venter, comments raised at scoping meeting with IAPs, 30 <sup>th</sup> July 2013	The proposed changes will allow for an improved infrastructure layout to better cater for the mine requirements. As indicated on Slide 4 of the presentation, this includes the relocation of the waste rock dumps so as to prevent the sterilisation of minerals in the pit, relocation of the office, plant and related infrastructure, design and capacities change of the stormwater dams, changes to the design of the railway, the establishment of an additional stormwater dam, the relocation of the low grade and fines stockpiles, expansion of the existing sewage treatment plant, expansion of the existing diesel storage facility, and use of tailings material to back fill the open pit.
<b>Topography – hazardous infrastructure</b>		
We are concerned that the tailings dam at the Tshipi Borwa Mine will fail. The tailings dam at the Mamatwan Mine failed about 10 years ago. Even though the Mamatwan Mine cleared up the tailings material, the vegetation still died.	Machiel Andries Kruger, comments raised during social scan, 5 <sup>th</sup> July 2013	This will be addressed in accordance with the terms of reference set out in Section 6 of the scoping report.
<b>Water issues</b>		
The availability and quality of water is very important to us. Approximately 10 years ago,	Machiel Andries Kruger, comments raised during social scan, 5 <sup>th</sup> July 2013	Your concern relating to the quality and quantity of groundwater has been identified in Section 3 of the scoping report. This will



ISSUE RAISED	BY WHOM AND WHEN	RESPONSE GIVEN BY EIA AND TSHIPI PROJECT TEAM (as amended for the purpose of the scoping report)
<p>one of our cows died as a result of poor groundwater quality. We no longer use this specific borehole. We do still make use of another groundwater borehole on the farm Moab 700. The quality of this borehole water is poor however it is not poor enough to result in the death of our cattle. We also use water from the Vaal Ga-Magara pipeline.</p> <p>We therefore emphasise that a lot of attention needs to be given to both groundwater and surface water quality and quantity particularly with regard to backfilling the open pit with a combination of tailings, waste rock, gravel and sand.</p>		<p>be addressed in accordance with the terms of reference set out in Section 6 of the scoping report.</p>
<b>Air pollution issues</b>		
<p>What specialist work was undertaken for the air emissions license?</p>	<p>Andrew Pyper, comments raised at scoping meeting with authorities, 30<sup>th</sup> July 2013</p>	<p>This is still to be done. An air quality impact assessment will be carried out by an air quality specialist. The terms of reference for the study are included in Section 6 of the scoping report.</p>
<p>With reference to the baseline environment, I would like to suggest that the prevailing wind direction is in fact not south east but rather north east.</p>	<p>Protea Leserwane, comments raised at scoping meeting with IAPs, 30<sup>th</sup> July 2013</p>	<p>The weather data used for the purposes of the presentation was sourced from the Kuruman station. The prevailing wind direction will be amended to include both south-easterly and north-easterly wind. This will be reviewed during the air specialist study.</p>
<p>I would like to propose that a micro-climatic investigation be undertaken with regards to the effect that opencast mining has on the micro-climate. The opencast mining results in a heat island whereby the incoming solar is reflected differently to if it were to fall onto flat ground. This therefore affects the circulation of air and affects the climate on a localised scale. Backfilling would help to lessen this by reducing the void into which the sun's heat pours and it would allow for the heat energy to be reflected in a more normal manner.</p>	<p>Andrew Pyper, comments raised at scoping meeting with authorities, 30<sup>th</sup> July 2013</p>	<p>The air quality specialist study will include a qualitative comment on the micro-climate issue because limited quantitative data is available. The terms of reference for the study are included in Section 6 of the scoping report.</p>
<p>There is so much dust. The plants are</p>	<p>Machiel Andries Kruger, comments raised</p>	<p>This has been identified as an issue in Section 3 of the scoping</p>

ISSUE RAISED	BY WHOM AND WHEN	RESPONSE GIVEN BY EIA AND TSHIPI PROJECT TEAM (as amended for the purpose of the scoping report)
covered in dust and in some instances, these plants almost appear white from all the dust sitting on the leaves and branches.	during social scan, 5 <sup>th</sup> July 2013	report. The terms of reference for the related assessment work are included in Section 6 of the scoping report.
<b>Heritage issues</b>		
<p>We have received notification of your intention to expand the infrastructure at the Tshipi Borwa Mine located on farms Mamatwan 331, Moab 700, to the south of Hotazel in the John Taolo Gaetsewe District Municipality. In terms of the National Heritage Act (NHRA) no 25 of 1999, heritage resources, including archaeological or palaeontological sites over 100 years old, graves older than 60 years, structures older than 60 years are protected. They may not be disturbed without a permit from the relevant heritage resources authority. This means that before such sites are disturbed by development it is incumbent on the developer (or mine) to ensure that a Heritage Impact Assessment is done. It must include the archaeological component (Phase 1) and any other applicable heritage components. Appropriate (Phase 2) mitigation, which involved recording, sampling, and dating sites that are to be destroyed, must be done as required.</p> <p>Although it is stated in the Background Information Document (BID) submitted to SAHRA that no significant heritage resources or cultural materials have been found to occur at the Tshipi Borwa Mine, no indication of a professional assessment is given. SAHRA therefore requests that a full Heritage Impact Assessment is conducted prior to any development related activities</p>	SAHRA, comments received by email, 11 <sup>th</sup> July 2013	As part of the original EIA and EMP process that was undertaken for the mine, a heritage impact assessment was undertaken on the farm Moab 700 and Mamatwan 331. The findings of this study indicated that no sites of significance were located on these farms. Taking this into account and with reference to Section 6.1.11 of the scoping report it is proposed that no further specialist investigations are required. The need to undertake a heritage investigation for the proposed project will be discussed in further detail with your department subsequent to the review of the scoping report by the SAHRA.

ISSUE RAISED	BY WHOM AND WHEN	RESPONSE GIVEN BY EIA AND TSHIPI PROJECT TEAM (as amended for the purpose of the scoping report)
<p>occurring on site.</p> <p>Consequently, the quickest process to follow for the archaeological component would be to contract a specialist to provide a Phase 1 Archaeological Impact Assessment Report. This must be done before any development related activities take place. The Phase 1 Archaeological Impact Assessment Report will identify the archaeological sites and assess their significance. It should also make recommendations (as indicated in Section 38 of the NHRA) about the process to be followed. For example there may need to be a mitigation phase (Phase 2) where the specialist will collect or excavate material and date the site. At the end of the process, the heritage authority may give permission for destruction of the sites.</p> <p>SAHRA is satisfied that, as all work will involve only shallow, surface excavations, no Palaeontological Impact Assessment will be necessary. Any other heritage resources that may be impacted such as built structures over 60 years old, sites of cultural significance associated with oral histories, burial grounds and graves, graves of victims of conflict, and cultural landscapes or viewsapes must also be assessed.</p>		
<b>Traffic related issues</b>		
The conditions of the roads are unacceptable.	Machiel Andries Kruger, comments raised during social scan, 5 <sup>th</sup> July 2013	Your concern regarding the condition of roads in the area has been noted. This will be addressed in accordance with the terms of reference set out in Section 6 of the scoping report.
<b>Blasting issues</b>		
Blasting is a serious issue for us. Even though our house is located approximately	Machiel Andries Kruger, comments raised during social scan, 5 <sup>th</sup> July 2013	Your comment has been noted and the impacts of blasting on the stability of houses has been identified in Section 3 of the