

# THARISA MINERALS (PTY) LTD

## TLHABOLOLO YA TSHEKATSHEKO YA GO AMEGA GA TIKOLOGO LE LENANELO LA TSAMAISO YA TIKOLOGO (EIA/EMP)

Ferikgong 2012

### MATSENO

Tharisa Minerals (Pty) Ltd (Tharisa) e tlagisa khoroumu le sethlopha sa dimetale tsa polatinamo kwa Moepong wa Tharisa gaufi le toropo ya Marikana, e e mo mebasepaleng ya legae ya Rustenburg le Madibeng le Masepala wa Kgaolo ya Bojanala Platinum, mo Pororofenseng ya Bokonebophirima [North West].

Tharisa e tshikinya go: aga moago wa semeletara sa dimetale tsa sethlopha sa polatinamo [pgm] le dipopegotheo tse di tsamaisanang, bodirelo [polante] ba go omisa motlhaba wa khoroumu, poloko ya dilo tse di kotsi (sekao, esiti), poloko ya masalela a a kotsi (sekao esiti e e dirisitsweng), go fetola popego ya letamo la masalela le go fetola sebopego ka kakaretso sa popegotheo e e fa godimo mo Moepong wa Tharisa. Ditiro tse di tshikinngwang di tla nna mo dipolaseng tsa Kafferskraal 342 JQ, Rooikoppies 297 JQ le Elandsdrift 467 JQ (Setshwantsho sa 1).

### TETLA YA TIKOLOGO

Pele ga go simololwa ga diporojeke tse di tshikinngwang go tla diriwa tlhabololo ya tiro ya go sekasekiwa ga tikologo go akaretswa: kgato ya patlisiso, kgato ya tshekatsheko ya go amega ga tikologo (EIA) le lenaneo la tsamaiso ya tikologo (EMP), go ya ka Molao wa tlhabololo ya metswedi ya Minerala le Peteroliamo wa bo 28 wa 2002 (MPRDA) le Molao wa bosetshaba wa taolo ya tikologo wa bo 107 wa 1998 (NEMA). Melao eno ka bobedi e a dira ka ntlha ya fa diporojeke tse di tshikintsweng, di tla nna mo moepong mme di akaretsa palo ya ditiro tse di kadilweng/supilweng go tswa mo melawaneng ya R.544, R.545, R546 e e begilweng go ya ka NEMA.

Dingwe tsa dikarolo tsa diporojeke tse di tshikintsweng le tsona di tla batla tetelelo go ya ka Taolo ya Bosetshaba ya Tikologo: Molao wa boleng jwa mowa wa bo 39 wa 2004 (NEM:AQA), Tikologo ya Bosetshaba: Molao wa Masalela wa bo 59 wa 2009 (NEM:WA) le Molao wa Bosetshaba wa Metsi wa bo 36 wa 1998 (NWA).

Setlamo se se ikemetseng sa bagakolodi ba tikologo sa SLR Consulting (Africa) (Pty) Ltd (SLR), se thapilwe ke Tharisa go laola tiro ya go sekaseka tikologo.

### MAIKEMISETSA A LEKWALO LE

Lekwalo le, le rulagantswe ke SLR go go itsise ka:

- \* porojeke e e tshikintsweng;
- \* ka tiro e e tla latelwang ya go sekaseka tikologo;
- \* ka kgonagalo ya dikamego tse di ka nnang teng tsa tikologo; le
- \* ka fa o ka tshwaelang ka gona mo tirong ya go sekaseka tikologo.

### TETLELELO YA TIKOLOGO E E TSHWANETSENG YA BONWA

#### Kamogelo ya tlhabololo ya EIA/EMP (DMR)

Nomere ya kaelo ya DMR: NW30/5/1/2/3/2/1/358  
Moemedi wa kgolagano wa DMR: Rre D. P. Makamu  
Tel: 018-487-9830

#### Kamogelo ya tlhabololo ya EIA/EMP (DEDECT)

Nomere ya kaelo ya DEDECT: NWP/EIA/50/2011  
Moemedi wa kgolagano: Rre R. Nemanashi  
TEL: 014-597-3597

#### EIA/EMP ya laesense ya Masalela (DEA)

Nomere ya kaelo ya DEA: 12/9/11/L675/7  
Moemedi wa kgolagano DEA: Mme Z. Mbili  
TEL: 012-310-3870

#### Laesense ya boleng jwa mowa (DEDECT)

Tiro e, e tla diriwa fa DEDECT e sena e neelana ka rekoto ya tshwetso ya tlhabololo e e umakilweng fa godimo ya Tshkatsheko ya kamego ya tikologo [EIA] le Lenaneo la tsamaiso ya tikologo [EMP]

#### Tlhabololo ya kopo ya tiriso ya metsi (DWA)

Tiro e, e tla diriwa fa tlhabololo ya EIA/EMP e sena e digelwa.

#### SEABE SA GAGO

Go amega ga setshaba ke karolo e e botlhokwa ya tiro ya go sekaseka tikologo.

O supilwe jaaka lekala le le amegang le go nna le kgatlhego, le le batlang go begelwa ka porojeke e e tshikinngwang, le go nna le tshwaelo mo tirong ya go sekaseka tikologo.

Ditshwaelo tsotlhe di tla rekotiwa le go neelwa sethlopha sa porojeke. O tla amogela pegelo ya go re ditshwaelo tsa gago di amogetswe jang le dipholo tsa patlisiso.

#### KA MO O TSIBOGANG KA TENG

Ditsibogelo tsa lekwalo le, di ka diriwa ka letlhare le le gokeletsweng la ditshwaelo kgotsa ka go buisana le motho yo a kwadilweng fa tlase.

#### YO O GOLAGANANG LE ENA

Stella Moeketse

(011) 4670945 (tel) kgotsa

(011) 4670978 (fax) kgotsa

[smoeketse@slrconsulting.com](mailto:smoeketse@slrconsulting.com)

Fa e le go re o batla go re ditshwaelo tsa gago di arabiwe mo tirong ya patlisiso o kopwa go re o bo o di tlagisitse ka  
24 Thlakole 2012

#### KOPANO TSA SETSHABA

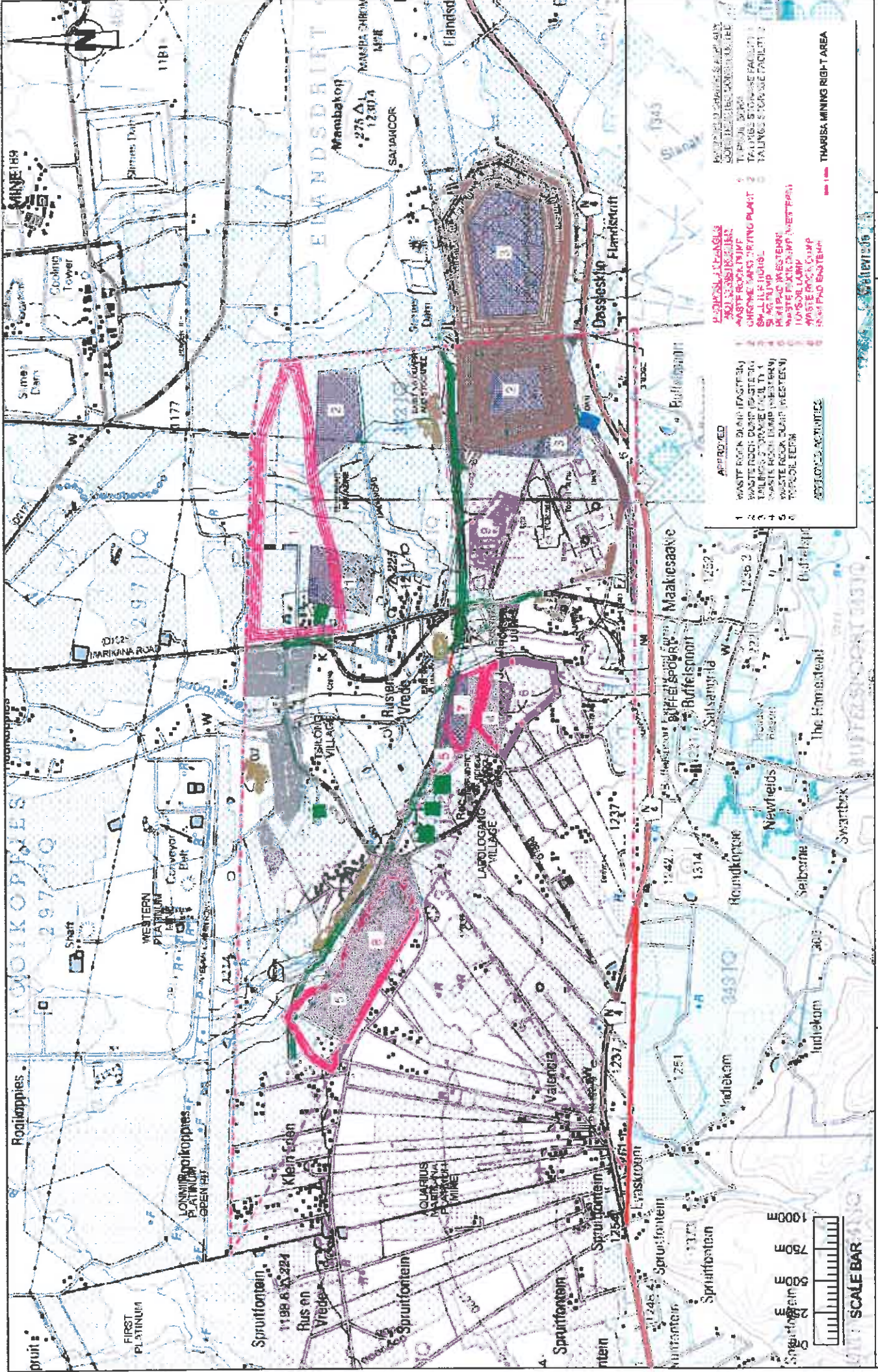
Go rulagantswe dikopano tse pedi tsa setshaba tsa porojeke jaaka go tlhalosiwa fa tlase.

#### Kopano ya A

Kopano ya bannileseabe  
Kopano e, e tla tsenelwa  
fela ka taletso.

#### Kopano ya B

Kopano ya setshaba ka kakaretso  
Dipuo: Seesimane le Setswana  
Letlha: Labone 15 Thlakole /February  
2012  
Nako: 16H30  
Lefelo: Holo ya Sekolo sa Poraemari sa  
Retief



MMAPA WA LEFELO

SETSHWANTSHO  
SA 1

01/2012

T014-12

## TSHOBOLOKO YA POROJEKE

**Go agiwa ga moago wa semeletara sa pgm le dipopegotheo tse di tsamaisanang:** moago o o tshikinngwang wa semeletara e tla nna wa bogolo ba zoom x zoom mme o tla nna le fa diminerale tse di phepafaditsweng (khonsetereiti) di omisiwang gona, onto e e tswalegileng ya 10MW DC Arc, fa digase tse di tswang di siamisiwang gona, ditshiamelo tsa go ntsha lerole le tsa go dira dithoro tsa aloe (alloy). Khonsetereiti e e sefilweng go tswa mo dimetaleng tsa setlhopho se se leng teng sa polatinamo (PGM) e tla omisiwa go fitlha mo bokgoleng jwa 1% ka go dirisa leokwane le le tukang jaaka gase ya seela sa peteroliamo (LPG), disele kgotsa dioli tse di boima tsa dituki (HFO). Khonsetereiti (concentrate) e e omileng e tla tsenngwa le anterasaete (anthracite), difolakesese (fluxes) mo ontong ya DC ARC, mme aloe (Alloy) e tla bopega kwa tlase ga onto, e e dirang ka go timolwa bogale. Masalela [Selaka] ( a bo kana ka  $14,000\text{m}^3$  ) a tla direga fa godimo ga aloe ( alloy) mme a tla pompiwa go tswa mo ontong le go latlhelwa mo dithotobolong tsa masalela a matlapa, mo letamong la seretse kgotsa mo thotobolong e e diretsweng masalela [seleka]. Aloe (alloy) e tla nna e ntshiwa le go thugiwa go siamisiwa go ya pele mo bodirelong ba go tlhatswa. Moago wa semeletara (tlhaolosho) o tla dira ka dinako tsotlhe (diura di le 24 ka letsatsi) go netefatsa tiro e e tsepameng. Go fopholetswa fa HFO e e ka nnang  $171\text{m}^3$  le LPG e e ka nnang  $88\text{m}^3$  e tla bolokiwa mo moagong wa semeletara.

Bodirelo ba botlhatswetso (leach plant) bo tla dirisa esiti (e ka nna esiti ya haeterotleroliki kgotsa ya salefiriki ) e e tla bolokiwang (mo makesimamong wa bogolo ba  $100\text{m}^3$ ) mo tikwatkweg le go dirisiwa go ntsha dimetale tsa motheo ( bogolo thata tshipi ) go tswa mo aloeng ( alloy ) ya dimetale tsa setlhopho sa polatinamo. Maikaelelo a go ntsha dimetale tsa motheo ke go oketsa bogolo ba dimetale tse di botlhokwa mo masaleding mme ka go dira jalo go okediwe boleng ba materiale. Masaledi a a nang thata le dimetale tsa setlhopho sa polatinamo (PGM) a tla sefiwa le go omisiwa go rekisetswa madirelo a a phepafatsang dimetale tse di botlhokwa. Esiti e e dirisitsweng e tla bolokiwa nakwana mo tikwatkweg pele e tsewa ke lekala le lengwe, le le tla e dirisang mo ditirong tsa metsi. Masalela a tshipi le a khalesiamo-salefeiti (calcium-sulphate) go tswa mo botlhatswetso a tla kopanngwa le masalela a a leng teng a moepo, mme a tla latlhelwa mo letamong la masalela. Masalela a metsi ( $24\text{m}^3$  ka letsatsi) go tswa mo karolong ya tsidifatsa a tla bolokwa le go dirisiwa gape go folisa selaka pele se latlhiwa.

**Go agiwa ga bodirelo ba go omisa motlhaba wa khoroumu:** Bodirelo jo, e tla nna jwa bogolo ba  $6\text{m} \times 6\text{m}$  mme bo tla dirisa boalo ba go omisa ba seela, go omisa ditone di le 10,000 ka kgwedi tsa motlhaba wa khoroumu, ka go dirisa setuki se se jaaka LPG, disele kgotsa HFO. Bodirelo bo tla nna mo kgaolong ya kakaretso ya bodirelo jo bo leng teng ba khonsetereita (concentrator), mme bo tla dira ka dinako tsotlhe ( mo diureng di le 24 tsa letsatsi). Go fopholetswa fa HFO e e ka nnang  $150\text{m}^3$  e tla bolokiwa mo kgaolong ya bodirelo ba khonsetereita.

**Go fetolwa ga popegotheo ka kakaretso kwa Moepong wa Tharisa:** Tharisa e dira tshikinyo ya diphetolo tse di farologaneng tsa leano la kakaretso la popego e e fa godimo. Dingwe tsa tsona di a tlhokega ka ntlha ya mabaka a lefelo

mme dingwe tsa tsona di setse di dirilwe ka ntlha ya fa go kgonega go re di diriwe mo lefelong:

- go tshikinngwa go re lebotana le le kwa godimo la mosima o o bulegileng mo lethakoreng la botlhaba la moepo le okediwe go tloga go  $120\text{m}$  go ya go  $200\text{m}$ ;
- go tshikinngwa go re go dirwe thotobolo ya mmu o o fa godimo e le nngwe mo lethakoreng la bophirima la moepo;
- go baakanngwa le go fetolwa ga dithotobolo tsa masalela a matlapa – go tshikinngwa go re go tla nna le dithotobolo tse tharo tsa masalela a matlapa: tse pedi mo moepong wa bophirima, le e le nngwe mo karolong ya botlhaba ya moepo. Go tshikinngwa gape go re thulamo ( seloupu) se tla fetolwa, go tloga go digerata di le  $14$  go ya go tse di ka nnang  $28$  tse di golaganngwang le dithotobolo tsa masalela a matlapa;
- go tshikinngwa ditsela di le pedi tsa ditswa-moepong/run-of-mine (ROM); e le nngwe mo karolong nngwe le nngwe ya moepo (mo dikarolong tsa botlhaba le bophirima ba moepo);
- go tshikinngwa go re go tla nna le masalela (selaka) a tlaleletso go tswa mo tikwatkweg e e umakilweng fa godimo ya semeletara, a a tsenang mo thotobolong ya masalela a matlapa, ya seretse; le/kgotsa thotobolo e e diretsweng masalela (selaka);
- Dipopego le bogolo ba ditshiamelo tsa go boloka masalela (TSF) di fetogile go tloga go TSF.1 – go ya go bogolo ba =  $52\text{Ha}$ ; Makesimamo wa bogodimo ba =  $33\text{m}$ ; Mothamo wa =  $5.4$  million  $\text{m}^3$  le TSF 2 – ya bogolo ba =  $100\text{Ha}$ ; Bogodimo ba =  $31\text{m}$ ; Mothamo wa =  $12.8$  million  $\text{m}^3$  go fitlha go: TSF 1 ya bogolo ba =  $69.5\text{Ha}$ ; bogodimo ba =  $40\text{m}$ ; Mothamo wa =  $7.7$  million  $\text{m}^3$  le TSF 2: Bogolo ba =  $86\text{Ha}$ ; bogodimo ba =  $40\text{m}$ ; Mothamo wa =  $10.2$  million  $\text{m}^3$  . Ga go boalo jo bo kwa tlase ba thibelo bo bo tla dirisiwang go ithara le karolo e e ka mo teng ya masalela a matlapa a TSF; le
- Lebota la thota ya mmu o o fa godimo le suteletse kwa ntlheng ya bodirelo ba khonsetereita (concentrator) e e tshwaraganeng le go agiwa.

**Nako:** ditiro tse di tshikinngwang tse di umakilwang fa godimo di tla simololwa ka bonako, morago ga go re Tharisa e amogele rekoto ya tshwetso go tswa mo bathating ba taolo ba ba maleba.

**Thapo:** Mo nakong ya kago borakonteraka ba tla dirisa badiri ba bona mrne fa go tlhokegang teng, badiri ba jaanong ba Tharisa ba tla dirisiwa. Go tla tlhologa makesimamo wa palo ya ditiro di le 400 mo nakong ya kago le ditiro tsa leruri di le 155 mo dikgatong tsa go dira.

**Matlo** badiri mo nakong ya kago ba tla newa bonno mo matlong a baeng a a seng mo saeteng/lefelong a a mo tikologong, dipolasa tsa baeng, diphaposi tsa bonno le matlo mangwe a tlwaelo mo kgaolong ya Rustenburg. Mo kgatong ya go dira, badiri ba tla fiwa tshetele ya bonno. Ga go ditshiamelo dipe tsa bonno tse di tla newang badiri mo saeteng/lefelong.

**Ditirelo tse dingwe:** ka ntlha ya fa diporojeke tse di tshikinngwang e tla nna karolo ya popegotheo ya tlaleletso mo moepong, metsi le motlakase di tla bonwa go tswa mo moepong wa Tharisa. Fa go tlhokegang teng, matlwana a boithusetso a dikhemikale, dijeneretara le ditanka tsa matsi di tla dirisiwa go rebola ditirelo tse di tlhokegang.

## TLHABEGO

Tlhabego ya moago wa semeletara le dipopegotheo tse di tsamaisanang le ona ke ya mabaka a ikonomi. Tikwatikwe e tla kgontsha Tharisa go bona dimetale tsa tlaleletso tsa polatunamo (PGM) mme ka go dira jalo, e oketse boleng ba khoroumu le dikumo tsa yona. Maikemisetso a bodirelo ba go omisa motlhaba wa khoroumu, ke go tlhagisa khoroumu ya boleng jo bo kwa godimo e e siametseng go dirisiwa jaaka motlhaba o o dirisiwang.

Diphetolo mo sebopegong sa masalela di tla tokafatsa go latliwa ga masalela, ka go tlhlongwa ga ditereini tsa monyelo mo "teng ga tsamaiso ya mabotana a go tshwara TSF". Ditereini tse di tla gogela tlase boalo jwa motswedi wa letamo la masalela mme ka go dira jalo di tla dira go re le tsepame, go thusa go re masalela a kopane le go tokafatsa mothamo wa lona le go fokotsa kgatelelo ya haeterosetetiki (hydrostatic) mo mabotaneng a lona.

Diphetolo tse dingwe tsa popegotheo ka kakaretso e e fa godimo di tla dira go re sebaka se se leng teng mo moepong se dirisiwe sentle thata.

## MAEMO A TIKOLOGO

Karolo e, e tlhagisa tlhaloso ya motheo ya maemo a a leng teng a tikologo mo teng le go potologa Moepo wa Tharisa. Ditiro tse di tshikingwang (moago wa semeletara le popegotheo e e tsamaisanang, bodirelo ba go omisa motlhaba wa khoroumu le phetolo ya kakaretso ya leano la sebopego sa moepo) di tla agiwa mo dikgaolong tse di setseng di goreleditswe. Tshedimosetso e e tletseng ka botlalo e tla tlhagisiwa mo pegelong e e tlhabolotsweng ya Tshekatsheko ya kamego ya tikologo le Lenaneo la tsamaiso ya tikologo.

### TLAEMETE

Kgaolo ya porojeke e mo Zounung ya Tlaemete ya naga-godimo (Highveld Climatic Zone) e e diriwang ke tlaemete e e bothito le e e magareng ya pula ya selemo (Sedimothole go fitlha Tlhakole). Palogare ya tempreritsha ya ngwaga ke ya bokana ka 19°C, ka tempereitsha ya makesimamo wa palogare e e magareng ga 22°C le 32°C le palogare ya tempereitsha e e potlana e e magareng ya 2°C le 18°C. Mariga a marutshwana le go omelela mme dikgwedi tsa Seetebosigo le Phukwi ke tsona tse di tsididi thata. Diphefo ka kakaretso ke tse di bothoswana mme gantsi di foka go tswa bokone-bophirima. Maemo a a feteletseng a bosa a nna mo sebopegong sa segagane (ka tiragalo tse pedi go fitlha go di le 20 ka ngwaga) mme ka sewelo go nna le dipula tsa sefako.

### TOPOKERAFI [TIKOLOGO]

Tikologo mo thotong ya Moepo wa Tharisa e pharalelletse ka thulamo e e edileng go ya kwa bokone. Kgaolo ka kakaretso e bogodimo ba bokana ka dimitara di le 1200 mo boalong ba lewatle (mamsl). Tikologo ya tlhago e e potologileng moepo e fetotswe ke ditiro tsa jaanong tsa moepo mo bokone le mo bophirima ba kgaolo ya porojeke. Bokana ka 2km kwa borwa jwa moepo go motseletsele wa dithaba tsa Magaliesberg, mme karolo e ya Magaliesberg e tlhatloga bokana ka 1400mamsl. Noka e e elelang ruri ya Sterkstroom le molapo o o sa elelang ruri wa Elandsdriftspruit di elela gaufi le thoto ya moepo.

### POPEGO YA LEFATSHE [JIOLOJI]

Moepo wa Tharisa o mo teng ga karolo ya bophirima ya tikwatikwe ya Bushveld. Ka kakaretso boalo (strike) bo mo bothababophirima fa boteng (dip) bo le kwa bokone. Karolo e e lebilweng ya manya ke ya setlhopho sa bogare sa khoroumu (MG1-MG4).

### MEBU

Mebu mo teng le go dikologa kgaolo ya moepo e akaretsa ya kgato ya orthic (Mispah, Glerosa le Hutton), dipopego ke tsa (Milkwood, Mayo, Shortlands, Sterkspruit, Swartland le Valsrivier) le dipopego tsa hydromorphic (Sepane, Rensburg le Bonheim). Mebu ya sebopego se se boima ya seloko se se ntsho le se se bohunou bo bo phitshwa (Sterkspruit, Mayo le ya Swartland) ka tlwaelo e bidiwa "black-turf" kgotsa "Mebu ya Cotton".

### TIRISO YA LEFATSHE LE BOKGONI JWA LONA

Tiriso ya lefatshe mo teng le go dikologa moepo ke motswako wa temothuo, moepo, bonno, dikgweba tse di potlana le ditiro tsa kakaretso tsa setshaba. Bontsi jwa lefatshe mo thotong ya moepo bo na le bokgoni jwa go ka lemiwa. Metsi a nosetso a tlhokwa mo temong ka ntlha ya go na ga pula go go sa ikanyegeng mo kgaolong. Metsi a go nosetsa a teng go tswa mo letamong la Buffelspoort ka tiriso ya sekema sa mmuso sa metsi sa Buffelspoort.

### DIMELA LE DIPHOLOGOLO

Moepo wa Tharisa o mo karolong ya sabana (savannah), e e bopilweng ke Acacia karoo woodlands, e e tlhagelelang mo mekgatsheng le dipowa tse di yang godimo le tlase go le go nnye le dithabana tse di kwa tlase. Unitu eno ya dimela e bothokwa go nne e tlhaloswa e le mo kotsing, bogolo thata ka ntlha ya dikamego tse dikgolo tsa phetolo ka ntlha ya temo le botoropo.

### METSI A A MO MMUNG

Metsi a a mo mmung mo teng le go dikologa Moepo wa Tharisa a magareng ga 10m le 30m mo teng ga lefatshe mme ka kakaretso a tlhotlheletswa ke popego ya kgaolo ya moepo. Ka kakaretso, kelelo e tswa mo dikgaolong tse di kwa godimo mo bortwa go ya mo dikgaolong tse di kwa tlase mo bokone, go ya kwa ditseleng tsa metsi tse di tlhagelelang mo dikgaolong tse di kwa tlase. Moepo wa Tharisa o itharile mo motsweding o o seng boteng wa metsi o o fa godimo le motswedi o o phatlhalatseng wa metsi o o boteng. Ka

kakaretso metsi a a mo mmung ke a boleng jo bo ntle mme a ka tsewa a tshwanetse kgotsa a siame. Bontsi jwa mesima ya metsi e e mo tikologong ya moepo e dirisetswa metsi a legae le a mabaka a temothuo ( diruiwa le nosetso).

#### **METSI A A FA GODIMO**

Moepo wa Tharisa o fitihelwa mo bodutelong jwa A21K Quaternary, bo bo welang mo bodutelong jo bogolwane jwa karolo e e kwa tlase ya noka ya Crocodile le ya Bophirima ba Crocodile le Kgaolo ya taolo ya metsi ya Marico. Metsi a kgaolo ya moepo a tsena mo nokeng ya Sterkstroom, e e elelang ka gale go tswa Letamong la Buffelspoort kwa borwa ba N4 mo ntlheng ya bokone, go kgabaganya bogare jwa kgaolo ya moepo le melapo e mebedi e e sa elelang ka gale e e senang maina ya Brakspruit, molapo o o sa fiwang leina o o sa nneng le metsi ka gale o o elelang mo Maretlwane le molapo o o sa elelang ruri o leina la ona le sa itsiweng o o elelang mo Elandsdriftspruit.

#### **LERATLA [MODUMO]**

Maemo a jaanong a leratla mo teng le go potologa thoto ya moepo ke a a tswakaneng a ditiro tsa selegae, moepo le madirelo. Metswedi e e leng teng e megolo ya leratla e akaretsa: ditiro tsa go epa, ditiro tsa go lerna ka dimatshini (sekao ke diterekere) le pharakano ya mo tseleng.

#### **MOWA**

Boleng jwa maemo a mowa bo tlotlheletswa thata ke metswedi e e farologaneng e e akaretsang: meepo le madirelo, phiso ya dilo, phiso ya dituki, temothuo, lerole le le bakegang mo ditseleng tse di sa aladiwang sekontiri/pheifing, mesi ya diokesoso tsa dijanaga.

#### **METSWEDI YA BOSWA**

Metswedi ya boswa e e botlhokwa thata e e bonweng mo moepong e ne e le bonno jwa mabotana a matlapa, mabitla, motse wa historio le legae, masalela a boswa jwa moepo, didirisiwa tse di tlhagelelang fale le fale tse di phatlaletseng tsa matlapa, matlo a historio le didirisiwa tsa kgale tse di latlhlweng tsa temothuo. Metswedi ya boswa mo kgaolong e e anameng go solofetswe fa e tla nna le kgonagalo ya tlhagelelo ya:

- Dikago tsa historio;
- Mabotana a matlapa; le
- mabitla.

#### **PONO**

Moepo wa Tharisa o bonala go tswa mo bontsing jwa metse/setshaba le mo mafaratlhatlheng a tsela a a gokaganyang metse/ditshaba. Boleng ba kakaretso ba kgaolo bo setse bo fetotswe thata ke ditiro tsa moepo o o leng teng le tsa temothuo ya kgaolo.

#### **IKONOMI- LEAGO**

Moepo wa Tharisa o mo Mebasepaleng ya Legae ya Rustenburg le Madibeng. Maemo a thuto mo kgaolong a kwa tlase, kelo ya botlhokatiro e kwa godimo, go tlhomiwa ga bonno bo bo senang ditirelo bo a oketsega. Batlamedi ba bagolo ba ditiro ke moepo le madirelo a a tsamaisanang le ona.

#### **TSE DINGWE TSE DI NAGANWANG**

Tiro ya go nagana tse dingwe tse di ka dirwang, go akaretswa tlhopho "ya go sa diriweng ga porojeke" e tswelletse mme e tla nna karolo ya patlisiso ya Tshakatsheko ya dikgato tsa kamego ya tikologo [EIA] le tsa Lenaneo la tsamaiso ya tikologo [EMP] tsa tiro ya tshakatsheko ya tikologo.

#### **DINTLHA TSE DI KA NNANG TENG TSA POROJEKE**

Kago le tsamaiso ya ditiro tse di tshikinngwang e ka arna dikarolo tse di latelang tsa tikologo:

- dirnela le diphologolo,
- lerole,
- leratla [modumo],
- pono,
- metswedi ya boswa,
- mebu,
- tiriso ya lefatshe,
- metsi a a fa godimo, le
- metsi a a mo mmug.

## TIRO YA GO SEKASEKA TIKOLOGO

Tiro ya go sekaseka tikologo e tihagisa tshedimosetso ya porojeke e e tshikinngwang le tikologo e e diriwang mo go yona; e supa, ka kgolagano le Bakgatlhegi le Baamegi, dikamego tse di ka nanng teng tse di phosetifi le tse di neketifi tsa porojeke e e tshikinngwang; le go bega ka dikgato tse di tlokegang go tlohofatsa dikamego tsa go nna jalo, go fitlha mo maemong a a amogelesegang.

Baamegi le Bakgatlhegi le bannileseabe ba bangwe ba tla amogela go le pele kitsiso ya dikopano le paka ya go lebisisa pegelo. Dikgato tse di ka tsewang le dinako di tihagisiwa fa tlase:

|   |
|---|
| <b>DIKGATO TSA TIRO YA TSHEKATSHEKO</b>   |
| <b>KGATO YA 1 – Tshimololo</b><br><b>(Seetebosigo- Sedimonthole 2011)</b>   |
| <ul style="list-style-type: none"> <li>▪ Ketelo ya saete [lefelu] le go supa dikamego tse di ka nanng teng</li> <li>▪ Kgolagano le Lefapha la metswedi ya minerala ( DMR)</li> <li>▪ Go neela Lefapha la Tlhabololo ya ikonomi, Tikologo le Bojanala ( DEDECT) dikitsiso.</li> <li>▪ Go naya Lefapha la merero ya tikologo (DEA) kitsiso</li> </ul>   |
| <b>KGATO YA BO II – Patlisiso</b><br><b>(Ferikgong 2012- Moranang 2012)</b>   |
| <ul style="list-style-type: none"> <li>▪ Go itsise bathati ba bangwe ba taolo le Bakgatlhegi le Baamegi ka porojeke e e tshikinngwang (<i>ka makwalokgang, lekwalo le, le dikitsiso tsa mo lefelong</i>)</li> <li>▪ Kopano ya bathati ba taolo</li> <li>▪ Dikopano tsa bannileseabe bagolo</li> <li>▪ Go diriwa ga metsotso ya dikopano tsotlhe tse di tshwaretsweng kgato ya patlisiso; le</li> <li>▪ Go diriwa ga pegelo le go e rebolela DMR, DEDECT, DEA le bathati ba bangwe ba taolo le Baamegi le Bakgatlhegi ba bangwe go dira ditshwaelo.</li> </ul> |
| <b>KGATO YA BO III – EIA / EMP</b><br><b>(Moranang - Diphallane 2012)</b>   |
| <ul style="list-style-type: none"> <li>▪ Go diriwa ga dipatlisiso tsa bosepešelisiti</li> <li>▪ Go sekaseka dikamego tsa porojeke e e tshikinngwang le go dira pegelo e e tlhabolotsweng ya Tshekatsheko ya kamego ya tikologo [EIA] le Lenaneo la tsamaiso ya tikologo [EMP]</li> <li>▪ Go araba ditshwaelo tsotlhe go tswa mo tshobolokong ya pegelo ya patlisiso</li> <li>▪ Go e neela DMR, DEDECT, DEA, le bathati ba bangwe ba taolo go e lebisisa</li> </ul>  |
| <b>KGATO YA BO IV- Go tsaya tshwetso ka EIA/EMP</b><br><b>(Moranang 2013)</b><br><b>BOKHUTLO</b>  |
| <ul style="list-style-type: none"> <li>▪ Go naya Bakgatlhegi le Baamegi rekoto ya tshwetso</li> </ul>   |

### MAKALA A A AMEGANG MO TIRONG YA TSHEKATSHEKO

#### BATLHAGISI BA POROJEKE

- Tharisa Minerals (Pty) Ltd (Tharisa)

#### SETLHOPHA SA POROJEKE

- SLR
- Setlhopha sa setegeniki sa Tharisa

#### BAKGATLHEGI LE BAAMEGI

- Beng ba lefatshe
- Beng ba lefatshe/badiri ba ba mo tikologong
- Ditshaba tse di mo tikologong
- Mekgatlho e e seng ya mmuso le
- Ditlamo mo kgaolong

#### BATHATI BA TAOLO

- Lefapha la metswedi ya minerala (DMR)
- Lefapha la tlhabololo ya ikonomi, tikologo, tshomarello le bojanala (DEDECT),
- Lefapha la merero ya tikologo (DEA),
- Lefapha la merero ya metsi (DWA)
- Lefapha la temothuo (DOA)
- Lefapha la tlhabololo ya magae le phetolo ya lefatshe (DRDLR)
- Lekala la metswedi ya boswa la Aforika Borwa (SAHRA)
- Masepala wa legae wa Rustenburg (RLM),
- Masepala wa legae wa Madibeng (MLM); le
- Masepala wa kgaolo ya Polatnamo ya Bojanala (BPDM).

**Tsweetswee re itsise fa go na le makala mangwe a tlaletso a a tshwanetseng go amega!**

#### YO O GOLAGANANG LE ENE

Stella Moeketse  
Mogala: (011) 467-0945 (tel) or  
Fekese: (011) 467-0978 (fax) or  
E-mail: [smoeketse@slrconsulting.com](mailto:smoeketse@slrconsulting.com)

**THARISA MINERALS (PTY) LTD**

**TLHABOLOLO YA TSHEKATSHEKO YA GO AMEGA GA TIKOLOGO LE LENANELO LA TSAMAISO  
YA TIKOLOGO (EIA/EMP)**

*Ferikgong 2022*

|                                    |                                    |
|------------------------------------|------------------------------------|
| LETLHA                             | NAKO                               |
| DINTLHA TSA BAKGATLHEGI LE BAAMEGI |                                    |
| LEINA                              |                                    |
| ATERESE YA POSO                    |                                    |
|                                    |                                    |
|                                    | KHOUTU YA POSO                     |
| ATERESE YA MMILA                   |                                    |
|                                    |                                    |
|                                    | KHOUTU YA POSO                     |
| NOMORE YA MOGALA<br>WA TIRO/ LEGAE | NOMORE YA FEKese YA<br>TIRO/ LEGAE |
| NOMORE YA<br>SELEFOUNU             | ATERESE YA E-MAIL                  |

|   |  |
|---|--|
| <b>TSWEETSWE SUpA KGATLHEGELo YA GAgO MO POROJEKENG E E TSHIKINNGWANG</b> |  |
|   |  |
|   |  |
| <b>TSWEETSWE KWALA DITSHWAELO TSA GAGO LE DIPOTSO FA</b>                  |  |
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**Tsweetswee busetsa diforomo tse di tladitsweng go:**  
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# THARISA MINERALS (PTY) LTD

## TLHABOLOLO YA TSHEKATSHEKO YA GO AMEGA GA TIKOLOGO LE LENANEO LA TSAMAISO YA TIKOLOGO (EIA/EMP)

Feikgong 2012

### MATSENO

Tharisa Minerals (Pty) Ltd (Tharisa) e tthagisa khoroumu le setlhopha sa dimetale tsa polatinamo kwa Moepong wa Tharisa gaufi le toropo ya Marikana, e e mo mebasepaleng ya legae ya Rustenburg le Madibeng le Masepala wa Kgaolo ya Bojanala Platinum, mo Pororofenseng ya Bokonebophirima [North West].

Tharisa e tshikinya go: aga moago wa semeletara sa dimetale tsa setlhopha sa polatinamo [pgm] le dipopegotheo tse di tsamaisanang, bodirelo [polante] ba go omisa motlhaba wa khoroumu, poloko ya dilo tse di kotsi (sekao, esiti), poloko ya masalela a a kotsi (sekao esiti e e dirisitsweng), go fetola popego ya letamo la masalela le go fetola sebopego ka kakaretso sa popegotheo e e fa godimo mo Moepong wa Tharisa. Ditiro tse di tshikinngwang di tla nna mo dipolaseng tsa Kafferskraal 342 JQ, Rooikoppies 297 JQ le Elandsdrift 467 JQ (Setshwantsho sa 1).

### TETLA YA TIKOLOGO

Pele ga go simololwa ga diporojeke tse di tshikinngwang go tla diriwa tlhabololo ya tiro ya go sekasekiwa ga tikologo go akaretswa: kgato ya patlisiso, kgato ya tshekatsheko ya go amega ga tikologo (EIA) le lenaneo la tsamaiso ya tikologo (EMP), go ya ka Molao wa tlhabololo ya metswedi ya Minerala le Peteroliamo wa bo 28 wa 2002 (MPRDA) le Molao wa bosetshaba wa taolo ya tikologo wa bo 107 wa 1998 (NEMA). Melao eno ka bobedi e a dira ka ntlha ya fa diporojeke tse di tshikintsweng, di tla nna mo moepong mme di akaretsa palo ya ditiro tse di kadilweng/supilweng go tswa mo melawaneng ya R.544, R.545, R546 e e begilweng go ya ka NEMA.

Dingwe tsa dikarolo tsa diporojeke tse di tshikintsweng le tsona di tla batla tettelelo go ya ka Taolo ya Bosetshaba ya Tikologo: Molao wa boleng jwa mowa wa bo 39 wa 2004 (NEM:AQA), Tikologo ya Bosetshaba: Molao wa Masalela wa bo 59 wa 2009 (NEM:WA) le Molao wa Bosetshaba wa Metsi wa bo 36 wa 1998 (NWA).

Setlamo se se ikemetseng sa bagakolodi ba tikologo sa SLR Consulting (Africa) (Pty) Ltd (SLR), se thapilwe ke Tharisa go laola tiro ya go sekaseka tikologo.

### MAIKEMISITSO A LEKWALO LE

Lekwalo le, le rulagantswe ke SLR go go itsise ka:

- \* porojeke e e tshikintsweng;
- \* ka tiro e e tla latelwang ya go sekaseka tikologo;
- \* ka kgonagalo ya dikamego tse di ka nnang teng tsa tikologo; le
- \* ka fa o ka tshwaelang ka gona mo tirong ya go sekaseka tikologo.

### TETLELELO YA TIKOLOGO E E TSHWANETSENG YA BONWA

#### Kamogelo ya tlhabololo ya EIA/EMP (DMR)

Nomere ya kaelo ya DMR: NW30/5/1/2/3/2/1/358  
Moemedi wa kgolaganano wa DMR: Rie D. P. Makaruu  
Tel: 018-487-9830

#### Kamogelo ya tlhabololo ya EIA/EMP (DEDECT)

Nomere ya kaelo ya DEDECT: NWP/EIA/50/2011  
Moemedi wa kgolaganano: Rre P. Nemanashi  
TEL: 014-597-3597

#### EIA/EMP ya laesense ya Masalela (DEA)

Nomere ya kaelo ya DEA: 12/9/11/L675/7  
Moemedi wa kgolaganano DEA: Mme Z. Mbili  
TEL: 012-310-3870

#### Laesense ya boleng jwa mowa (DEDECT)

Tiro e, e tla diriwa fa DEDECT e sena e neelana ka rekoto ya tshwetso ya tlhabololo e e umakilweng fa godimo ya Tshekatsheko ya kamego ya tikologo [EIA] le Lenaneo la tsamaiso ya tikologo [EMP]

#### Tlhabololo ya kopo ya tiriso ya metsi (DWA)

Tiro e, e tla diriwa fa tlhabololo ya EIA/EMP e sena e digelwa.

#### SEABE SA GAGO

Go amega ga setshaba ke karolo e e botlhokwa ya tiro ya go sekaseka tikologo.

O supilwe jaaka lekala le le amegang le go nna le kyatlhego, le le batlang go begelwa ka porojeke e e tshikinngwang, le go nna le tshwaelo mo tirong ya go sekaseka tikologo.

Ditshwaelo tsotlhe di tla rekotiwa le go neelwa setlhopha sa porojeke. O tla amogela pegelo ya go re ditshwaelo tsa gago di amogetswe jang le dipholo tsa patlisiso.

#### KA MO O TSIBOGANG KA TENG

Ditshibogelo tsa lekwalo le, di ka diriwa ka letlhare le le gokeletsweng la ditshwaelo kgotsa ka go buisana le motho yo a kwadilweng fa tlase.

#### YO O GOLAGANANG LE ENA

Stella Moeketse

(011) 4670945 (tel) kgotsa

(011) 4670978 (fax) kgotsa

[smoeketse@slrconsulting.com](mailto:smoeketse@slrconsulting.com)

Fa e le go re o batla go re ditshwaelo tsa gago di arabiwe mo tirong ya patlisiso o kopiwa go re o bo o di tthagisitse ka  
24 Thlakoletse 2012

#### KOPANO TSA SETSHABA

Go rulagantswe dikopano tse pedi tsa setshaba tsa porojeke jaaka go tlhalosiwa fa tlase

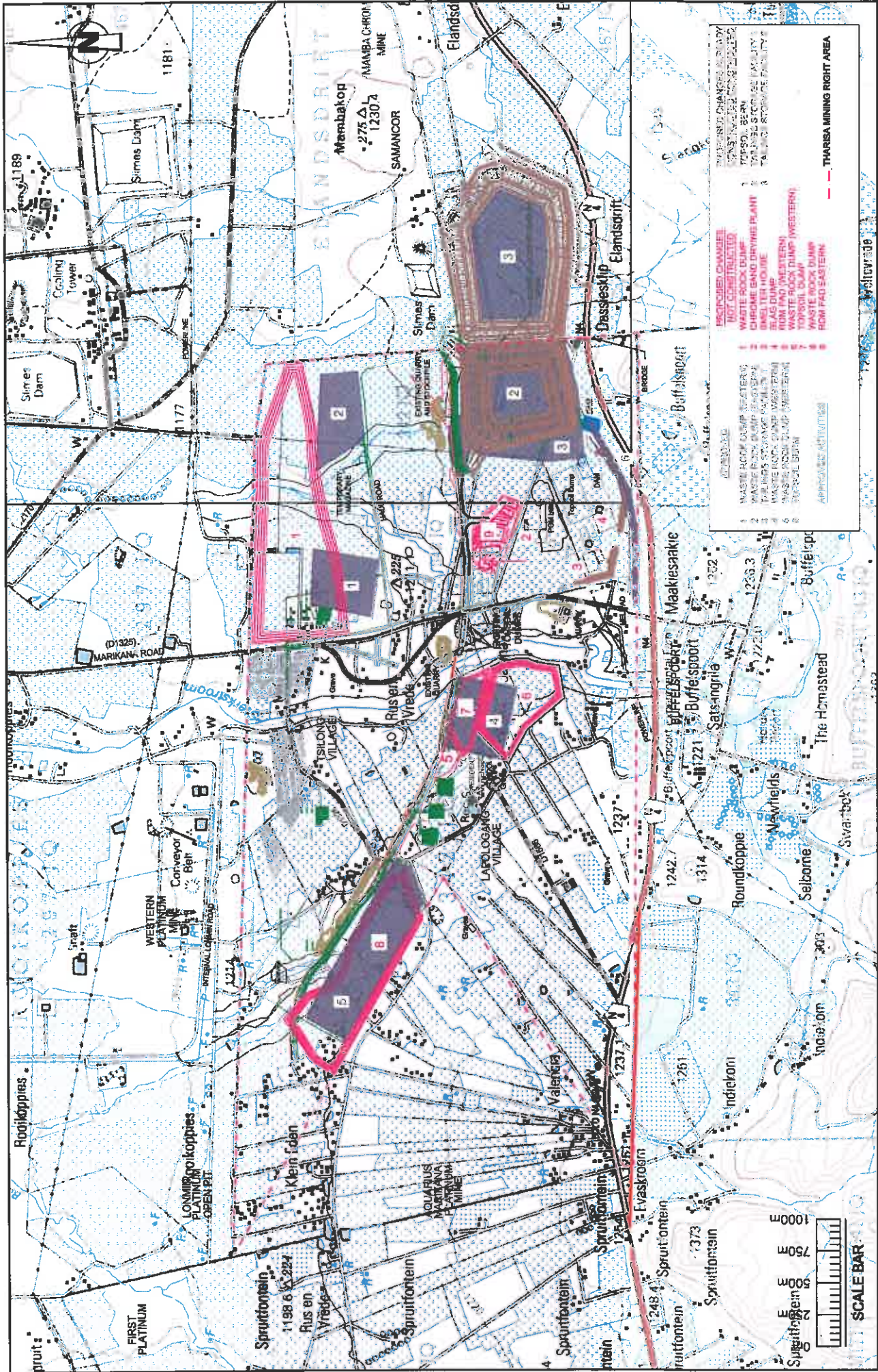
##### Kopano ya A

Kopano ya bannileseabe  
Kopano e, e tla tsenelwa fela ka taletso.

##### Kopano ya B

Kopano ya setshaba ka kakaretso  
Dipuo: Seesimane le Setswana  
Letlha: Labone 16 Thlakoletse /February  
2012  
Nako: 16H30  
Lefelo: Holo ya Sekolo sa Poraemari sa Retief





01/2012

T014-12

LOCAL SETTING

**SLR** SLR Consulting (Africa) (Pty) Ltd  
GLOBAL ENVIRONMENTAL SOLUTIONS

FIGURE 1

## TSHOBOLOKO YA POROJEKE

**Go agiwa ga moago wa semeletara sa pgm le dipopegotheo tse di tsamaisanang:** moago o o tshikinngwang wa semeletara e tla nna wa bogolo ba zoom x zoom mme o tla nna le fa diminerale tse di phepafaditsweng (khonsentereiti) di omisiwang gona, onto e e tswalegileng ya 10MW DC Arc, fa digase tse di tswang di siamisiwang gona, ditshiamelo tsa go ntsha lerole le tsa go dira dithoro tsa aloe (alloy). Khonsentereiti e e sefilweng go tswa mo dimetaleng tsa setlhopho se se leng teng sa polatinamo (PGM) e tla omisiwa go fitlha mo bokgoleng jwa 1% ka go dirisa leokwane le le tukang jaaka gase ya seela sa peteroliamo (LPG), disele kgotsa dioli tse di boima tsa dituki (HFO). Khonsentereiti (concentrate) e e omileng e tla tsenngwa le anterasaete (anthracite), difolakesese (fluxes) mo ontong ya DC ARC, mme aloe (Alloy) e tla bopega kwa tlase ga onto, e e dirang ka go timolwa bogale. Masalela [Selaka] ( a bo kana ka 14,000m<sup>3</sup> ) a tla direga fa godimo ga aloe ( alloy) mme a tla pompiwa go tswa mo ontong le go latlhelwa mo dithotobolong tsa masalela a matlapa, mo letamong la seretse kgotsa mo thotobolong e e diretsweng masalela [seleka]. Aloe (alloy) e tla nna e ntshiwa le go thugiwa go siamisiwa go ya pele mo bodirelong ba go tihatswa. Moago wa semeletara (tlaolosho) o tla dira ka dinako tsotlhe (diura di le 24 ka letsatsi) go netefatsa tiro e e tsepameng. Go fopholetswa fa HFO e e ka nnang 171m<sup>3</sup> le LPG e e ka nnang 88m<sup>3</sup> e tla bolokiwa mo moagong wa semeletara.

Bodirelo ba botlhatswetso (leach plant) bo tla dirisa esiti (e ka nna esiti ya haeterotleroliki kgotsa ya saefiriki ) e e tla bolokiwang (mo makesimamong wa bogolo ba 100m<sup>3</sup>) mo tikwatikweng le go dirisiwa go ntsha dimetale tsa motheo ( bogolo thata tshipi ) go tswa mo aloeng ( alloy ) ya dimetale tsa setlhopho sa polatinamo. Maikaelelo a go ntsha dimetale tsa motheo ke go oketsa bogolo ba dimetale tse di botlhokwa mo masaleding mme ka go dira jalo go okediwe boleng ba materiale. Masaledi a a nang thata le dimetale tsa setlhopho sa polatinamo (PGM) a tla sefiwa le go omisiwa go rekisetswa madirelo a a phepafatsang dimetale tse di botlhokwa. Esiti e e dirisitweng e tla bolokiwa nakwana mo tikwatikweng pele e tswa ke lekala le lengwe, le le tla e dirisang mo ditirong tsa metsi. Masalela a tshipi le a khalesiamo-salefeiti (calcium-sulphate) go tswa mo botlhatswetso a tla kopanngwa le masalela a a leng teng a moepo, mme a tla latlhelwa mo letamong la masalela. Masalela a metsi (24m<sup>3</sup> ka letsatsi) go tswa mo karolong ya tsidifatsa a tla bolokwa le go dirisiwa gape go folisa selaka pele se latlhiwa.

**Go agiwa ga bodirelo ba go omisa motlhaba wa khoroumu:** Bodirelo jo, e tla nna jwa bogolo ba 6m x 6m mme bo tla dirisa boalo ba go omisa ba seela, go omisa ditone di le 10,000 ka kgwedi tsa motlhaba wa khoroumu, ka go dirisa setuki se se jaaka LPG, disele kgotsa HFO. Bodirelo bo tla nna mo kgaolong ya kakaretso ya bodirelo jo bo leng teng ba khonsentereita (concentrator), mme bo tla dira ka dinako tsotlhe ( mo diureng di le 24 tsa letsatsi). Go fopholetswa fa HFO e e ka nnang 150m<sup>3</sup> e tla bolokiwa mo kgaolong ya bodirelo ba khonsentereita.

**Go fetolwa ga popegotheo ka kakaretso kwa Moepong wa Tharisa:** Tharisa e dira tshikinyo ya diphetolo tse di farologaneng tsa leano la kakaretso la popego e e fa godimo. Dingwe tsa tsona di a tlokega ka ntlha ya mabaka a lefelo

mme dingwe tsa tsona di setse di dirilwe ka ntlha ya fa go kgonega go re di diriwe mo lefelong:

- go tshikinngwa go re lebotana le le kwa godimo la mosima o o bulegileng mo letlhakoreng la bothaba la moepo le okediwe go tloga go 120m go ya go zoom;
- go tshikinngwa go re go dirwe thotobolo ya mmu o o fa godimo e le nngwe mo letlhakoreng la bophirima la moepo;
- go baakanngwa le go fetolwa ga dithotobolo tsa masalela a matlapa – go tshikinngwa go re go tla nna le dithotobolo tse tharo tsa masalela a matlapa: tse pedi mo moepong wa bophirima, le e le nngwe mo karolong ya bothaba ya moepo. Go tshikinngwa gape go re thulamolo ( seloupu) se tla fetolwa, go tloga go digerata di le 14 go ya go tse di ka nnang 28 tse di golaganngwang le dithotobolo tsa masalela a matlapa;
- go tshikinngwa ditsela di le pedi tsa ditswa-moepong/run-of-mine (ROM); e le nngwe mo karolong nngwe le nngwe ya moepo (mo dikarolong tsa bothaba le bophirima ba moepo);
- go tshikinngwa go re go tla nna le masalela (selaka) a tlaleletso go tswa mo tikwatikweng e e umakilweng fa godimo ya semeletara, a a tsenang mo thotobolong ya masalela a matlapa, ya seretse; le/kgotsa thotobolo e e diretsweng masalela (selaka);
- Dipopego le bogolo ba ditshiamelo tsa go boloka masalela (TSF) di fetogile go tloga go TSF.1 – go ya go bogolo ba = 52Ha; Makesimamo wa bogodimo ba = 33m; Mothamo wa = 5.4 million m<sup>3</sup> le TSF 2 – ya bogolo ba = 100Ha; Bogodimo ba = 31m; Mothamo wa = 12.8 million m<sup>3</sup> go fitlha go: TSF 1 ya bogolo ba = 69.5Ha; bogodimo ba = 40m; Mothamo wa = 7.7 million m<sup>3</sup> le TSF 2: Bogolo ba = 86Ha; bogodimo ba = 40m; Mothamo wa = 10.2 million m<sup>3</sup> . Ga go boalo jo bo kwa tlase ba thibelo bo bo tla dirisiwang go ithara le karolo e e ka mo teng ya masalela a matlapa a TSF; le
- Lebota la thota ya mmu o o fa godimo le suteletse kwa ntlheng ya bodirelo ba khonsentereita (concentrator) e e tshwaraganeng le go agiwa.

**Nako:** ditiro tse di tshikinngwang tse di umakiwang fa godimo di tla simololwa ka bonako, morago ga go re Tharisa e amogele rekoto ya tshwetso go tswa mo bathating ba taolo ba ba maleba.

**Thapo:** Mo nakong ya kago borakonteraka ba tla dirisa badiri ba bona mme fa go tlokegang teng, badiri ba jaanong ba Tharisa ba tla dirisiwa. Go tla tlohega makesimamo wa palo ya ditiro di le 400 mo nakong ya kago le ditiro tsa leruri di le 155 mo dikgatong tsa go dira.

**Matlo:** badiri mo nakong ya kago ba tla newa bonno mo matlong a baeng a a seng mo saeteng/lefelong a a mo tikologong, dipolasa tsa baeng, diphaposi tsa bonno le matlo mangwe a tlwaelo rno kgaolong ya Rustenburg. Mo kgatong ya go dira, badiri ba tla fiwa tshetele ya bonno. Ga go ditshiamelo dipe tsa bonno tse di tla newang badiri mo saeteng/lefelong.

**Ditirelo tse dingwe:** ka ntlha ya fa diporojeke tse di tshikinngwang e tla nna karolo ya popegotheo ya tlaleletso mo moepong, metsi le motlakase di tla bonwa go tswa mo moepong wa Tharisa. Fa go tlokegang teng, matlwana a bothusetso a dikhemikale, dijeneretara le ditanka tsa matsi di tla dirisiwa go rebola ditirelo tse di tlokegang.

## TLHABEGO

Tlhabego ya moago wa semeletara le dipopegotheo tse di tsamaisanang le ona ke ya mabaka a ikonomi. Tikwatikwe e tla kgontsha Tharisa go bona dimetale tsa tlaleletso tsa polatinamo (PGM) mme ka go dira jalo, e oketse boleng ba khoroumu le dikurno tsa yona. Maikemisetso a bodirelo ba go omisa motlhaba wa khoroumu, ke go tlhagisa khoroumu ya boleng jo bo kwa godimo e e siametseng go dirisiwa jaaka motlhaba o o dirisiwang.

Diphetolo mo sebopegong sa masalela di tla tokafatsa go laithiwa ga masalela, ka go tlongwa ga ditereini tsa monyelo mo "teng ga tsamaiso ya mabotana a go tshwara TSF". Ditereini tse di tla gogela tlase boalo jwa motswedi wa letamo le masalela mme ka go dira jalo di tla dira go re le tsepame, go thusa go re masalela a kopane le go tokafatsa mothamo wa lona le go fokotsa kgatelelo ya haeterosetetiki (hydrostatic) mo mabotaneng a lona.

Diphetolo tse dingwe tsa popegotheo ka kakaretso e e fa godimo di tla dira go re sebaka se se leng teng mo moepong se dirisiwe sentle thata.

## MAEMO A TIKOLOGO

Karolo e, e tlhagisa tlhaloso ya motheo ya maemo a a leng teng a tikologo mo teng le go potologa Moepo wa Tharisa. Ditiro tse di tshikinningwang (moago wa semeletara le popegotheo e e tsamaisanang, bodirelo ba go omisa motlhaba wa khoroumu le phetolo ya kakaretso ya leano la sebopego sa moepo) di tla agiwa mo dikgaolong tse di setseng di goreleditswe. Tshedimosetso e e tletseng ka botlalo e tla tlhagisiwa mo pegelong e e tlhabolotsweng ya Tshekatsheko ya kamego ya tikologo le Lenaneo la tsamaiso ya tikologo.

### TLELAEMETE

Kgaolo ya porojeke e mo Zounung ya Tlelaemete ya naga-godimo (Highveld Climatic Zone) e e diriwang ke tlelaemete e e bothito le e e magareng ya pula ya selemo (Sedimothole go fitlha Tlhakole). Palogare ya tempreritsha ya ngwaga ke ya bokana ka 19°C, ka tempereitsha ya makesimamo wa palogare e e magareng ga 22°C le 32°C le palogare ya tempereitsha e e potlana e e magareng ya 2°C le 18°C. Mariga a marutshwana le go omelela mme dikgwedi tsa Seetebosigo le Phukwi ke tsona tse di tsididi thata. Diphefo ka kakaretso ke tse di botlhoswana mme gantsi di foka go tswa bokone-bophirima. Maemo a a feteletseng a bosa a nna mo sebopegong sa segagane (ka tiragalo tse pedi go fitlha go di le 20 ka ngwaga) mme ka sewelo go nna le dipula tsa sefako.

### TOPOKERAFI [TIKOLOGO]

Tikologo mo thotong ya Moepo wa Tharisa e pharalitse ka thulamo e e edileng go ya kwa bokone. Kgaolo ka kakaretso e bogodimo ba bokana ka dimitara di le 1200 mo boalong ba lewatle (mamsl). Tikologo ya tlhago e e potologileng moepo e fetotswe ke ditiro tsa jaanong tsa moepo mo bokone le mo bophirima ba kgaolo ya porojeke. Bokana ka 2km kwa borwa jwa moepo go motseletsele wa dithaba tsa Magaliesberg, mme karolo e ya Magaliesberg e tlhatloga bokana ka 1400mamsl. Noka e e elelang ruri ya Sterkstroom le molapo o o sa elelang ruri wa Elandsdriftspruit di elela gaufi le thoto ya moepo.

### POPEGO YA LEFATSHE [JIOLOJI]

Moepo wa Tharisa o mo teng ga karolo ya bophirima ya tikwatikwe ya Bushveld. Ka kakaretso boalo (strike) bo mo botlhababophirima fa boteng (dip) bo le kwa bokone. Karolo e e lebilweng ya manya ke ya setlhopho sa bogare sa khoroumu (MG1-MG4).

### MEBU

Mebu mo teng le go dikologa kgaolo ya moepo e akaretse ya kgato ya orthic (Mispah, Glerosa le Hutton), dipopego ke tsa (Milkwood, Mayo, Shortlands, Sterkspruit, Swartland le Valsrivier) le dipopego tsa hydromorphic (Sepane, Rensburg le Bonheim). Mebu ya sebopego se se boima ya seloko se se ntsho le se se bohunou bo bo phitshwa (Sterkspruit, Mayo le ya Swartland) ka tlwaelo e bidiwa "black-turf" kgotsa "Mebu ya Cotton".

### TIRISO YA LEFATSHE LE BOKGONI JWA LONA

Tiriso ya lefatshe mo teng le go dikologa moepo ke motswako wa temothuo, moepo, bonno, dikgwebo tse di potlana le ditiro tsa kakaretso tsa setshaba. Bontsi jwa lefatshe mo thotong ya moepo bo na le bokgoni jwa go ka lemiwa. Metsi a nosetso a tlhokwa mo temong ka ntlha ya go na ga pula go go sa ikanyegeng mo kgaolong. Metsi a go nosetsa a teng go tswa mo letamong la Buffelspoort ka tiriso ya sekema sa mmuso sa metsi sa Buffelspoort.

### DIMELA LE DIPHOLOGOLO

Moepo wa Tharisa o mo karolong ya sabana (savannah), e e bopilweng ke Acacia karoo woodlands, e e tlhagelelang mo mekgatsheng le dipowa tse di yang godimo le tlase go le go nnye le dithabana tse di kwa tlase. Uniti eno ya dimela e botlhokwa go nne e tlhaloswa e le mo kotsing, bogolo thata ka ntlha ya dikamego tse dikgolo tsa phetolo ka ntlha ya temo le botoropo.

### METSI A A MO MMUNG

Metsi a a mo mmung mo teng le go dikologa Moepo wa Tharisa a magareng ga 10m le 30m mo teng ga lefatshe mme ka kakaretso a tlhotlheletswa ke popego ya kgaolo ya moepo. Ka kakaretso, kelelo e tswa mo dikgaolong tse di kwa godimo mo bortwa go ya mo dikgaolong tse di kwa tlase mo bokone, go ya kwa ditseleng tsa metsi tse di tlhagelelang mo dikgaolong tse di kwa tlase. Moepo wa Tharisa o itharile mo motsweding o o seng boteng wa metsi o o fa godimo le motswedi o o phatlhalatseng wa metsi o o boteng. Ka

kakaretso metsi a a mo mmung ke a boleng jo bo ntle mme a ka tsewa a tshwanetse kgotsa a siame. Bontsi jwa mesima ya metsi e e mo tikologong ya moepo e dirisetswa metsi a legae le a mabaka a temothuo ( diruiwa le nosetso).

#### **METSI A A FA GODIMO**

Moepo wa Tharisa o fitlhelwa mo bodutelong jwa A21K Quaternary, bo bo welang mo bodutelong jo bogolwane jwa karolo e e kwa tlase ya noka ya Crocodile le ya Bophirima ba Crocodile le Kgaolo ya taolo ya metsi ya Marico. Metsi a kgaolo ya moepo a tsena mo nokeng ya Sterkstroom, e e elelang ka gale go tswa Letamong la Buffelspoort kwa borwa ba N4 mo ntlheng ya bokone, go kgabaganya bogare jwa kgaolo ya moepo le melapo e mebedi e e sa elelang ka gale e e senang maina ya Brakspruit, molapo o o sa fiwang leina o o sa nneng le metsi ka gale o o elelang mo Maretiwane le molapo o o sa elelang ruri o leina la ona le sa itsiweng o o elelang mo Elandsdriftspruit.

#### **LERATLA [MODUMO]**

Maemo a jaanong a leratla mo teng le go potologa thoto ya moepo ke a a tswakaneng a ditiro tsa selegae, moepo le madirelo. Metswedi e e leng teng e megolo ya leratla e akaretsa: ditiro tsa go epa, ditiro tsa go lema ka dimatshini (sekao ke diterekere) le pharakano ya mo tseleng.

#### **MOWA**

Boleng jwa maemo a mowa bo tlhotlheletswa thata ke metswedi e e farologaneng e e akaretsang: meepo le madirelo, phiso ya dilo, phiso ya dituki, temothuo, lerole le le bakegang mo ditseleng tse di sa aladiwang sekontiri/pheifing, mesi ya diokesoso tsa dijanaga.

#### **METSWEDI YA BOSWA**

Metswedi ya boswa e e botlhokwa thata e e bonweng mo moepong e ne e le bonno jwa mabotana a matlapa, mabitla, motse wa hisitori le legae, masalela a boswa jwa moepo, didirisiwa tse di tlhagelelang fale le fale tse di phatlhaletseng tsa matlapa, matlo a hisitori le didirisiwa tsa kgale tse di latlhilweng tsa temothuo. Metswedi ya boswa mo kgaolong e e anameng go solofetswe fa e tla nna le kgonagalo ya tlhagelelo ya:

- Dikago tsa hisitori;
- Mabotana a matlapa; le
- mabitla.

#### **PONO**

Moepo wa Tharisa o bonala go tswa mo bontsing jwa metse/setshaba le mo mafaratlhatlheng a tsela a a gokaganyang metse/ditshaba. Boleng ba kakaretso ba kgaolo bo setse bo fetotswe thata ke ditiro tsa moepo o o leng teng le tsa temothuo ya kgaolo.

#### **IKONOMI- LEAGO**

Moepo wa Tharisa o mo Mabasepaleng ya Legae ya Rustenburg le Madibeng. Maemo a thuto mo kgaolong a kwa tlase, kelo ya botlhokatiro e kwa godimo, go tlhomiwa ga bonno bo bo senang ditirelo bo a oketsega. Batlamedi ba bagolo ba ditiro ke moepo le madirelo a a tsamaisanang le ona.

#### **TSE DINGWE TSE DI NAGANWANG**

Tiro ya go nagana tse dingwe tse di ka dirwang, go akaretswa tlhopho "ya go sa diriweng ga porojeke" e tswetse mme e tla nna karolo ya patlisiso ya Tshekatsheko ya dikgato tsa kamego ya tikologo [EIA] le tsa Lenaneo la tsamaiso ya tikologo [EMP] tsa tiro ya tshekatseko ya tikologo.

#### **DINTLHA TSE DI KA NNANG TENG TSA POROJEKE**

Kago le tsamaiso ya ditiro tse di tshikinyang e ka ama dikarolo tse di latelang tsa tikologo:

- dimela le diphologolo;
- lerole;
- leratla [modumo];
- pono;
- metswedi ya boswa;
- mebu;
- tiriso ya lefatshe;
- metsi a a fa godimo; le
- metsi a a mo mmug.

## TIRO YA GO SEKASEKA TIKOLOGO

Tiro ya go sekaseka tikologo e tlhagisa tshedimosetso ya porojeke e e tshikinngwang le tikologo e e diriwang mo go yona; e supa, ka kgoaganano le Bakgatlhegi le Baamegi, dikamego tse di ka nanng teng tse di phosetifi le tse di neketifi tsa porojeke e e tshikinngwang; le go bega ka dikgato tse di tlhokegang go tlhofofatsa dikamego tsa go nna jalo, go fitlha mo maemong a a amogelesegang.

Baamegi le Bakgatlhegi le bannileseabe ba bangwe ba tla amogela go le pele kitsiso ya dikopano le paka ya go lebisisa pegelo. Dikgato tse di ka tsewang le dinako di tlhagisiwa fa tlase:

|   |
|---|
| <b>DIKGATO TSA TIRO YA TSHEKATSHEKO</b>   |
| <b>KGATO YA 1 – Tshimololo</b><br><b>(Seetebosigo- Sedimonthole 2011)</b>   |
| <ul style="list-style-type: none"> <li>▪ Ketelo ya saete [lefelu] le go supa dikamego tse di ka nanng teng</li> <li>▪ Kgoaganano le Lefapha la metswedi ya minerala ( DMR)</li> <li>▪ Go neela Lefapha la Tlhabololo ya ikonomi, Tikologo le Bojanala ( DEDECT) dikitsiso.</li> <li>▪ Go naya Lefapha la merero ya tikologo (DEA) kitsiso</li> </ul>  |
| <b>KGATO YA BO II – Patlisiso</b><br><b>(Ferikgong 2012- Moranang 2012)</b>   |
| <ul style="list-style-type: none"> <li>▪ Go itsise bathati ba bangwe ba taolo le Bakgatlhegi le Baamegi ka porojeke e e tshikinngwang (<i>ka makwalokgang, lekwalo le, le dikitsiso tsa mo lefelong</i>)</li> <li>▪ Kopano ya bathati ba taolo</li> <li>▪ Dikopano tsa bannileseabe bagolo</li> <li>▪ Go dirwa ga metsotso ya dikopano tsotlhe tse di tshwaretsweng kgato ya patlisiso; le</li> <li>▪ Go dirwa ga pegelo le go e rebolela DMR, DEDECT, DEA le bathati ba bangwe ba taolo le Baamegi le Bakgatlhegi ba bangwe go dira ditshwaelo.</li> </ul> |
| <b>KGATO YA BO III – EIA / EMP</b><br><b>(Moranang - Diphallane 2012)</b>   |
| <ul style="list-style-type: none"> <li>▪ Go dirwa ga dipatlisiso tsa bosepešelisiti</li> <li>▪ Go sekaseka dikamego tsa porojeke e e tshikinngwang le go dira pegelo e e tlhabolotsweng ya Tshakatsheko ya kamego ya tikologo [EIA] le Lenaneo la tsamaiso ya tikologo [EMP]</li> <li>▪ Go araba ditshwaelo tsotlhe go tswa mo tshobolokong ya pegelo ya patlisiso</li> <li>▪ Go e neela DMR, DEDECT, DEA, le bathati ba bangwe ba taolo go e lebisisa</li> </ul>   |
| <b>KGATO YA BO IV- Go tsaya tshwetso ka EIA/EMP</b><br><b>(Moranang 2013)</b>   |
| <b>BOKHUTLO</b>   |
| <ul style="list-style-type: none"> <li>▪ Go naya Bakgatlhegi le Baamegi rekoto ya tshwetso</li> </ul>   |

### MAKALA A A AMEGANG MO TIRONG YA TSHEKATSHEKO

#### BATLHAGISI BA POROJEKE

- Tharisa Minerals (Pty) Ltd (Tharisa)

#### SETLHOPHA SA POROJEKE

- SLR
- Setlhopha sa setegeniki sa Tharisa

#### BAKGATLHEGI LE BAAMEGI

- Beng ba lefatshe
- Beng ba lefatshe/badiri ba ba mo tikologong
- Ditshaba tse di mo tikologong
- Mekgatlho e e seng ya mmuso le
- Ditlamo mo kgaolong

#### BATHATI BA TAOLO

- Lefapha la metswedi ya minerala (DMR)
- Lefapha la tlhabololo ya ikonomi, tikologo, tshomarelo le bojanala (DEDECT),
- Lefapha la merero ya tikologo (DEA),
- Lefapha la merero ya metsi (DWA)
- Lefapha la temothuo (DoA)
- Lefapha la tlhabololo ya magae le phetolo ya lefatshe (DRDLR)
- Lekala la metswedi ya boswa la Afurika Borwa (SAHRA)
- Masepala wa legae wa Rustenburg (RLM),
- Masepala wa legae wa Madibeng (MLM), le
- Masepala wa kgaolo ya Polatinamo ya Bojanala (BPDM)

**Tsweetswee re itsise fa go na le makala mangwe a tlaletso a a tshwanetseng go amega!**

#### YO O GOLAGANANG LE ENE

Stella Møeketse  
Mogala: (011) 467-0945 (tel) or  
Fekese: (011) 467-0978 (fax) or  
E-mail: [smoeketse@slrconsulting.com](mailto:smoeketse@slrconsulting.com)





# TRAFFIC TURMOIL!

## 20 Joburg lights out of order

By JANE THOMSON

THE school year has begun and that means very heavy traffic in the morning and afternoons.

Getting through the long traffic queues is tough even at the best of times but things are being made worse in Joburg by the number of traffic lights that are out of order.

More than 20 sets of lights have not been working since the beginning of December.

They are situated at:

- Joe Slovo and Raleigh Street in Yeoville, City Deep at Heidelberg Road towards Alberton
- In Fourways at William Nicol and Leslie, and at William Nicol and White Hills Boulevard in Blue Hills at Summit and the R55
- In Bryanston at William Nicol and Grosvenor
- In Roosterhof at Rabie and Mabongwe
- In Boksburg at Kretzfort and Rondebult
- In Bramley at High and Corlett

- In Malanshof at Mabongwe and Hans Schoeman
- In Melville at Main and First
- In Sandton at Fredman and Fifth
- In Midrand at Olifantsfontein and the N1 South
- In Morningside at Kelvin and Summit, and Summit and North
- In Woodlands at Western Service Road and Woodlands
- In Floracliffe at the 14th Avenue exits off the N1
- In Martindale at Brown and Main
- In Randburg CBD at Pretoria and Harley, as well as Retail and Kent
- In Hyde Park at First and Sixth
- In Constantia Kloof at Christiaan de Wet and Jim Fouche. In Woodmead at the Woodmead Drive exits off the M1, and Woodmead and Old Pretoria Road
- In Dunkeld at Jan Smuts and North
- In Industria West at Commando and Maraisburg
- In Parktown at Eton and Oxford
- In Germiston at Van Riebeeck and Rand Airport
- In Randpark Ridge at Dale Lace and Scott, and at Rabie and Catherine
- In Witpoortje at Main Reef and Corlett Avenue in Olivetale at President Fouche and Jacaranda
- In Nooitgedacht at the Mabongwe drive exits off the N14

In Florida Park at Christian De Wet and Watlike  
In Soweto at New Canada Road and Soweto Highway heading south and Chris Hani Road next to the University of Joburg, Soweto campus.  
Joburg Roads Agency boss Thulane Makhubela is on record as saying that faulty traffic lights would be fixed within 24 hours of being reported.

But he failed to keep his promise to get back to *Daily Sun* with the answers to some questions.

However SunReaders who have a problem with faulty traffic lights can try calling Joburg Connect on 011 375 5555. Some of the traffic lights that are not working on this list were provided by our readers. Others are from 702 Yair Radio



ALL ASH: Betty Motshwene, her boyfriend Jan Makhathulela and grandchildren Surprize Khoza (2) and Sello Motshwene (10) at the burnt-out shack. Photo by Samson Ratswani

## Cruel fire ate gogo's shack sold that night

By TEBOGO THAMANE

GOGO Betty Motshwene (58) sold her stand and shack for R4 000 on Saturday.

Then she, her boyfriend and friends partied at the tavern near her home in Kagisanoeng near Ga-Rankuwa in Tshwane, Gauteng.

Afterwards she forgot to blow out the candle beside her bed when she went to sleep.

That sparked a blaze that hurt her grandson (2) and ate the R5 000. Her dog that was chained in the six-room shack burned to death. The fire ate everything. And now the shack is a pile of ash.

Betty, her boyfriend Jan

Makhathulela (59) and her 13 grandchildren are homeless.

They must leave the stand by 5 February, as agreed.

The heavy was Sello Motshwene (10), the gogo's visiting grandson who saved the family from the fire. "We were sleeping when he shouted there was a fire," said Betty.

"There were flames everywhere."

They got all the grandkids out of the shack. Luckily, only six of them were there. "We are staying with my daughter in her RDP house now, but there are too many of us. It's hard with no blankets and clothes," said sad Betty.

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**ENVIRONMENTAL IMPACT ASSESSMENT AND ENVIRONMENTAL MANAGEMENT PROGRAMME (EIA/EMP) AMENDMENT FOR THARISA MINERALS (PTY) LTD**

Notice is given in terms of the Mineral and Petroleum Resources Development Act, 28 of 2002 (MPRDA), the National Environmental Management Act, 107 of 1998 (NEMA), the National Environmental Management: Air Quality Act, 35 of 2004 (NEMA:QA), the National Environment: Waste Act, 55 of 2005 (NEMA:WA) and the National Water Act, 36 of 1998 (NWA) that Tharisa Minerals (Pty) Ltd (Tharisa) is applying for environmental authorisation for the proposed activities described below. In this regard, applications for environmental authorisation have been submitted to the North West Department of Economic Development, Environment, Conservation and Tourism (DEDECT) and the North West Department of Mineral Resources (DMR) and an application for a waste licence to the Department of Environmental Affairs. An atmospheric emissions licence application will be lodged with the DEDECT (Air Quality Management Unit) in due course.

**Reference number:**  
DMR Reference Number: NW30/5/1/2/3/2/1/368  
DEDECT Reference Number: NW/P/EA/50/2011  
DEA Reference Number: 12/9/1/1/LR75  
Please include these reference numbers on all correspondence.

**Name of Proponent:**  
Tharisa is an existing mine that produces chrome and platinum group metals (PGM) concentrates near Matikona town.

**Description of proposed activities:**  
Tharisa proposes to construct and operate PGM smelter house and associated infrastructure, to construct and operate a chromite sand drying plant, store hazardous substances (e.g. acids), store hazardous waste (e.g. used acid), change the tailings dam design and characteristics and change the general surface infrastructure layout at Tharisa Mine.

The following NEMA-listed activities are potentially triggered by the proposed project: Regulation (13), Regulation No. 545 (5), and Regulation No. 545 (2b).

**Location:**  
The proposed activities will be located at Tharisa Mine that is situated on the farms Katerskraal 342 JO, Roukoppes 297 JO and Elanredrif 467 JO within the Rustenburg and Matibeng Local Municipalities, and Bojuna's Platinum District Municipality in the North West.

**Name of consultant in contact:**  
SLR Consulting (Africa) (Pty) Ltd (SLR)  
Contact persons: Ms Stella Mooketsi  
Postal address: PO Box 1596, Driemansrivier, 2060  
Tel: (011) 467-0945, Fax: (011) 467-0978, E-mail: [stammooketsi@slrconsulting.com](mailto:stammooketsi@slrconsulting.com)

**Notice of public scoping meetings:**  
Two public meetings have been arranged for the project as outlined below. Please contact the people listed above for directions in either meeting. These meetings will be used to provide information on the proposed project.

**Meeting A: Focused stakeholder meeting**  
(This meeting will be arranged by invitation.)

**Meeting B: General public meeting**  
Languages: English and Setswana  
Date: Thursday, 16 February 2012  
Time: 16:30  
Venue: Hefal Primary School (Hall)

**Registration for IAPs:**  
Should you wish to receive further information, please submit your name, contact information, the DEA, DEDECT and DMR reference numbers and interested in the matter in writing to the contact person(s) above within 30 days of publication of this advertisement or at the public scoping meetings.

**Additional information:**  
To obtain additional information about the proposed project and/or the environmental assessment process, please contact the above mentioned consultants.

**Date of expiration of this advert:**  
19 January 2012

**Public Works gets a hot klap**

By MCHOTISO RABOTSHO  
THE Department of Public Works is getting worse at book-keeping, according to the Auditor-General.

This follows the firing in October of the department's minister, Gwen Mahlangu-Nkomo, amid building lease scandals and claims of "shameful waste of money".

This week Terrence Nombembe, the Auditor-General, issued the latest audit report.

It told a sorry tale of a failure in leadership and financial management. In the latest audit year, the department earned a "financial disclaimer".

A "disclaimer" means an auditor refuses to give an opinion because the books are in such a poor state that an audit can't be completed.

Six other departments got a klap from the Auditor-General. But four improved and 21 were unchanged.

Home Affairs got a pat on the back, with an unqualified financial opinion for the first time in 16 years.





**R**USTENBURG - The SPCA is overflowing with very scared animals which lost their way home over the festive season and are waiting to be reunited with their family. If your pet is missing please visit your local SPCA and have a look at the kennels.



## ENVIRONMENTAL IMPACT ASSESMENT AND ENVIRONMENTAL MANAGEMENT PROGRAMME (EIA/EMP) AMENDMENT FOR THARISA MINERALS (PTY) LTD

Notice is given in terms of the Mineral and Petroleum Resources Development Act, 28 of 2002 (MPRDA), the National Environmental Management Act, 107 of 1998 (NEMA), the National Environmental Management Air Quality Act, 39 of 2004 (NEMA: AQA), the National Environment Waste Act, 59 of 2009 (NEM:WA) and the National Water Act, 36 of 1998 (NWA) of intent by Tharisa Minerals (Pty) Ltd (Tharisa) to carry out the activities described below. In this regard, applications for environmental authorisations have been submitted to the North-West Department of Economic Development, Environment, Conservation and Tourism (DEDECT) and the North West Department of Mineral Resources (DMR) and an application for a waste license to the Department of Environmental Affairs Atmospheric emissions license application will be lodged with the DEDECT (Air Quality Management Unit) in due course.

**Reference number**

DMR Reference Number: NW30/5/1/2/3/2/1/358  
 DEDECT Reference Number: NWP/EIA/50/2011  
 DEAR Reference Number: 12/9/11/L675/

Please include these reference numbers on all correspondence

**Name of Proponent**

Tharisa is an existing mine which produces chrome and platinum group metals (PGM) concentrates near Marikana town.

**Description of proposed activities**

Tharisa proposes to construct and operate PGM smelter house and associated infrastructure, to construct and operate a chrome sand drying plant, store hazardous substances (eg acid), store hazardous waste (eg used acid), change the drainage dam design and characteristics and change the general surface infrastructure layout at Tharisa Mine.

The following NEMA listed activities are potentially triggered by the proposed projects: Regulation No. 544 (13), Regulation No. 545 (5), and Regulation No 545 (26).

**Location**

The proposed activities will be located at Tharisa Mine that is situated on the farms Katerskraai 342 JQ, Rooikoppies 297 JQ and Elandsdrif 467 JQ within the Rustenburg and Madibeng Local Municipalities and Bojanale Platinum District Municipality in the North West Province.

**Name of consultant to contact**

SLR Consulting (Africa) (Pty) Ltd (SLR)  
 Contact person: Ms Stella Moeketsa  
 Postal Address: PO Box 1596, Cramerville, 2060  
 Tel: (011) 467-0945, Fax: (011) 467-0978, E-mail: smoeketsa@slrconsulting.com

**Notice of public scoping meeting**

Two public meetings have been arranged for the project as outlined below. Please contact the people listed above for directions to either meeting. These meetings will be used to provide information on the proposed project.

**Meeting A: Focused stakeholder meeting**

This meeting will be arranged by invitation.

**Meeting B: General public meeting**

Language: English and Setswana  
 Date: Thursday 16 February 2012  
 Time: 18H30  
 Venue: Retief Primary School (Hall)

**Registration for IAPs**

Should you wish to receive further information please submit your name, contact information, the DEA, DEDECT and DMR reference number/s and interest in the matter in writing to the contact person(s) above within 30 days of publication of this advertisement or at the public scoping meetings.

**Additional information**

To obtain additional information about the proposed project and/or the environmental assessment process, please contact the above mentioned consultants.

**Date of publication of this advert**

19 January 2012.

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 Lysians Office 23 via 25  
 Contact US on 082 637 9427

**K.C. Womens Clinic**

Pain Free Abortion  
 Surgical Abortion  
 Pregnancy Test  
 Family Planning (Pills & Injections)  
 Morning After Pill  
 Ante Natal Care  
 Pap-Smear  
 Female  
 Sterilization  
 Well Baby Clinic  
 STI Treatment  
 Male Circumcision  
 STI Screening

011 467 0945

**Department of Public Works, Roads and Transport**

### Invitation to Bid

Bids are hereby invited for:

| Bid number  | Bid description   | CFM/Grading  | Closing date                     | Evaluation criteria   | Contact person                   |
|-------------|---|--------------|----------------------------------|---|----------------------------------|
| PWRT 105/11 | Sub-contractor for the construction of drainage systems at Lelamantse Sub-station: OLSA | 2% or higher | 31 January 2012 at 12:00 on roll | A preference point system of 70/10 will be used to evaluate the bid as follows: Price = 50 points, BBBEE criteria = 10 points | Mr. V. Mosea<br>(018) 387-2465/6 |

Bid documents will be available at a cost of R100.00 at the Department of Public Works, Roads and Transport, Spaza Medun Motema Road at Gate Home.

Closing date: 17 February 2012 at 11:00

**Department of Public Works, Roads and Transport**

### Invitation to Bid

Bids are hereby invited for:

**Rehabilitation of Road P23/1 from Schweizer-Reneke to Wolmaransstad**  
 Bid No: PWRT 105/11 (A, B & C)

| Bid No.       | Project Description                            | Required CFM/Grading | Closing date                | Contact Person  | Evaluation Criteria   |
|---------------|--|----------------------|-----------------------------|---|---|
| PWRT 105/11 A | Intersection of R56 to D1227 (A-Box)           | 5% PE/7CE or higher  | 02/02/2012 at 10:00 on roll | Technical: Mr. Eddie Swarick<br>Budgetary: Gushikoko Consulting tel. 083 443 2788 | Price = 50 points, BBBEE (status level of evaluation) = 10 points |
| PWRT 105/11 B | Intersection of D1227 to D1535 (B-Box)         | 5% PE/7CE or higher  | 02/02/2012 at 10:00         |   |   |
| PWRT 105/11 C | Intersection of D1535 to Wolmaransstad (C-Box) | 5% PE/7CE or higher  | 02/02/2012 at 10:00         |   |   |

Bid documents will be sold at the Department of Public Works, Roads and Transport, Gate Home, Spaza Medun Motema Road, from 10:00 to 15:00 each.

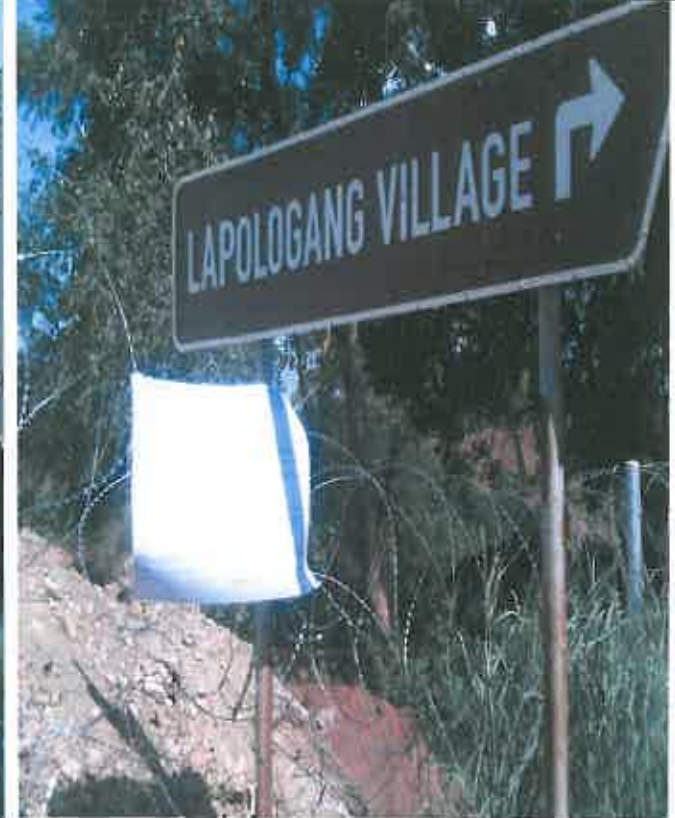
Closing date: 20 February 2012 at 11:00

**PHOTGRAPHS OF THE SITE NOTICES**

Tharisa Mine Main Gate: Eastern Side



Tharisa Mine: Western Side, Junction to Lapologang



Piet Retief Primary School



Spruitfontein Central Dealer



Lapologang Village (Corner D2565 and Montedi roads)



Silver City Water Collection Point (West of Sterkstroom River)



Die Ou Meule Cafe and Liquor Store



Silver City, east of the Sterkstroom River along D1526



Tom's Fried Chicken, Standard Bank Centre, Marikana Town



Buffelspoort Liquor Store, Buffelspoort Shopping Centre





2014-12 - BID Mail Merge - 23 Jan 2012.

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0350

T. Du Toit  
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Mooirooi  
0325

Dutch Reformed Church  
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0284

Ahmed Ebrahim  
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Tlhabane  
0289

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Mncedi Gaqa  
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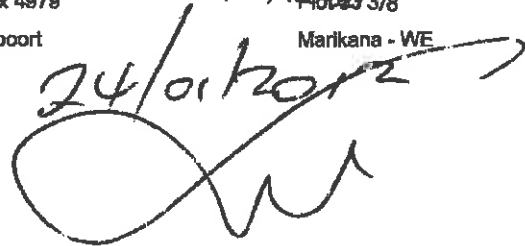
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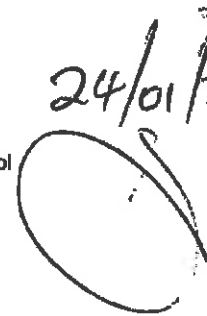
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Alberton

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Susan Visser  
Private Bag X82288  
Rustenburg  
0300

Willem Vistor David  
Private Bag x501  
Marikana  
0284

J.S. Vorster  
P O Box 13  
Moolnool

Willem Vorster  
P O Box 13  
Moolnool  
0325

Ian Watson  
PO Box 65294  
Erasmusrand  
0165

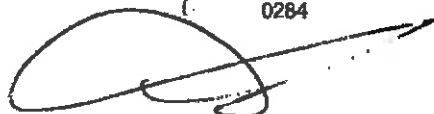
Western Platinum Limited  
Private Bag X508  
Marikana  
0284

Rud Westhuizen  
P O Box 4637  
Marikana  
0284

C. Williams  
P O Box 783  
Juskei Park  
2153

Private Bag X033, Rivonia, 2128  
Tel: (011) 465-8272/7  
Fax: (011) 465-8273/8

24/01/2012



P. Wolvaardt  
P O Box 492  
Markana  
0284

P.H.C. Wolvaardt  
P O Box 153A  
Rustenburg  
0299

Private 816 2000, Rivonia  
Tel: (011) 435-3177  
Fax: (011) 465-0270

24/01/2012  
6

Geoff  
Private Bag X26  
Postnet Suite 151  
Sunninghill  
2157

Masuge  
PO Box 98  
Marikana  
0284

T Alblas  
Plot A14 Stallions  
Buffelspoort  
0284

Allied Crane Hire  
P O Box 8968  
Rustenburg  
0300

Aquarius Platinum SA (Pty) Ltd.  
P O Box 3567  
Rivonia  
2128

Benhaus N W Pty Ltd  
P O BOX 8941  
Rustenburg  
0300  
South Africa

Richard Bongolo  
P O Box 217  
Marikana  
0284

Herman Booysen  
Private Bag X2223  
Mooiwool  
0325

Janine Bothma  
P.O. Box 415  
Menlo Park  
Pretoria  
0001

Helen Botilo  
P O Box 4656  
Marikana  
0284

J.E Botilo  
P O Box 4656  
Marikana  
0284

B.D Bouwer  
P O Box 40  
Marikana  
0284

G.M.J. Breedt  
P O Box 958  
Alberton  
1450

Andre and Louis Breet  
P O Box 1957  
Mooiwool  
0325

Piet Breet  
P O Box 86  
Kooie

L. Brown  
P O Box 44344  
Linden  
0104

PS Buys  
Private Bag X82325  
Rustenburg  
0300

Dumile Caleni  
P O Box 98  
Marikana  
0284

Thomas Chabalala  
33 Maditokwa  
Marikana

Esther Chawe  
P O Box 605  
Marikana  
0284

Vuyani Choko-Choko  
Box 48  
Marikana  
0284

Dirk Coetzee  
P O Box 638  
Mooiwool  
0325

Charlotte Coetzer  
P O Box 4711  
Buffelspoort  
Marikana  
0284

W.C. Coetzer  
P O Box 4711  
Marikana  
0284

A.M. Cronje  
PO Box 1400  
Lerratsfontein  
1038

Pitso Cynthia Mathodi  
P O Box 4709  
Rustenburg  
0300

E. de Beer  
P O Box 4734

Chris De Bruyn  
Postnet 47  
Private Bag X 82245  
Rustenburg  
0300

Tinus de Deer  
P O Box 139  
Mooiwool  
0325

Cecilleu Dintwe  
P O Box 98  
Marikana  
0284

Robert Dlamini  
P O Box 98  
Marikana  
0284

D.J.H. Du Plessis  
P O Box 5080  
Rustenburg  
0300

FORWARDS  
Private Bag X003, Rivonia, 2127  
Tel: (011) 435-4272/7  
Fax: (011) 435-8270/8

24/01/2012



**BACKGROUND INFORMATION DOCUMENT FOR THE ENVIRONMENTAL IMPACT ASSESSMENT AND ENVIRONMENTAL MANAGEMENT PROGRAMME (EIA/EMP) AMENDMENT FOR THARISA MINERALS (PTY) LTD**

**DMR REFERENCE NUMBER: NW30/5/1/2/3/2/1/358**

**DEDECT REFERENCE NUMBER: NWP/EIA/50/2011**

**DEA REFERENCE NUMBER: 12/9/11/L675/7**

**This is to certify that I**

**THULANI NTSHANGA**

**in my capacity as a representative of**

**THARISA MINERALS**

**have received the following documents:**

*28 ENGLISH & 20 SETSWANA*

**PLEASE COMPLETE AND TICK RELEVANT BOX**

|  |                 |
|--|-----------------|
| <p><b>hard copies of the BACKGROUND INFORMATION DOCUMENT (BID) FOR THE ENVIRONMENTAL IMPACT ASSESSMENT AND ENVIRONMENTAL MANAGEMENT PROGRAMME (EIA/EMP) AMENDMENT FOR THARISA MINERALS (PTY) LTD</b></p> | <p><b>✓</b></p> |
|--|-----------------|

**Date:** *20 JAN 2012*

**Signature/ Stamp:**  
*[Handwritten Signature]*





**BACKGROUND INFORMATION DOCUMENT FOR THE  
ENVIRONMENTAL IMPACT ASSESSMENT AND ENVIRONMENTAL  
MANAGEMENT PROGRAMME (EIA/EMP) AMENDMENT FOR THARISA  
MINERALS (PTY) LTD**

**DMR REFERENCE NUMBER: NW30/5/1/2/3/2/1/358**

**DEDECT REFERENCE NUMBER: NWP/EIA/50/2011**

**DEA REFERENCE NUMBER: 12/9/11/L675/7**

**This is to certify that I**

*Yobandie Kühn*

**in my capacity as a representative of**

**Buffelspoort Shopping Complex**

*Buffelspoort  
Drankwinkel*

**have received the following documents:**

**PLEASE COMPLETE AND TICK RELEVANT BOX**

|  |  |
|--|--|
| <b>20 English and 20 Setswana hard copies of the BACKGROUND INFORMATION DOCUMENT (BID) FOR THE ENVIRONMENTAL IMPACT ASSESSMENT AND ENVIRONMENTAL MANAGEMENT PROGRAMME (EIA/EMP) AMENDMENT FOR THARISA MINERALS (PTY) LTD</b> |  |
|--|--|

Date: *20/01/2012*

*(Kühn)*  
Signature/ Stamp:



**BACKGROUND INFORMATION DOCUMENT FOR THE ENVIRONMENTAL IMPACT ASSESSMENT AND ENVIRONMENTAL MANAGEMENT PROGRAMME (EIA/EMP) AMENDMENT FOR THARISA MINERALS (PTY) LTD**

**DMR REFERENCE NUMBER: NW30/5/1/2/3/2/1/358**

**DEDECT REFERENCE NUMBER: NWP/EIA/50/2011**

**DEA REFERENCE NUMBER: 12/9/11/L675/7**

**This is to certify that I**

*JOHN BOTILO - for Siza*

**in my capacity as a representative of**

**Piet Retief School**

*EARE TAKOR*

**have received the following documents:**

**PLEASE COMPLETE AND TICK RELEVANT BOX**

|  |                                     |
|--|-------------------------------------|
| <b>30 English and 30 Setswana hard copies of the BACKGROUND INFORMATION DOCUMENT (BID) FOR THE ENVIRONMENTAL IMPACT ASSESSMENT AND ENVIRONMENTAL MANAGEMENT PROGRAMME (EIA/EMP) AMENDMENT FOR THARISA MINERALS (PTY) LTD</b> | <input checked="" type="checkbox"/> |
|--|-------------------------------------|

**Date:** *20/01/12*

*[Signature]*  
**Signature/ Stamp:**



**BACKGROUND INFORMATION DOCUMENT FOR THE  
ENVIRONMENTAL IMPACT ASSESSMENT AND ENVIRONMENTAL  
MANAGEMENT PROGRAMME (EIA/EMP) AMENDMENT FOR THARISA  
MINERALS (PTY) LTD**

**DMR REFERENCE NUMBER: NW30/5/1/2/3/2/1/358**

**DEDECT REFERENCE NUMBER: NWP/EIA/50/2011**

**DEA REFERENCE NUMBER: 12/9/11/L675/7**

**This is to certify that i**

**Pastor Motaung/ Mrs Motaung**

.....  
**In my capacity as a representative of**

*Uniting Reformed Church of S. Africa.*

.....  
**have received the following documents:**

**PLEASE COMPLETE AND TICK RELEVANT BOX**

|  |  |
|--|--|
| <b>20 English and 20 Setswana hard copies of the BACKGROUND INFORMATION DOCUMENT (BID) FOR THE ENVIRONMENTAL IMPACT ASSESSMENT AND ENVIRONMENTAL MANAGEMENT PROGRAMME (EIA/EMP) AMENDMENT FOR THARISA MINERALS (PTY) LTD</b> |  |
|--|--|

**Date:** *22/01/2011*

*M. Motaung*  
**Signature/ Stamp:**



**BACKGROUND INFORMATION DOCUMENT FOR THE  
ENVIRONMENTAL IMPACT ASSESSMENT AND ENVIRONMENTAL  
MANAGEMENT PROGRAMME (EIA/EMP) AMENDMENT FOR THARISA  
MINERALS (PTY) LTD**

**DMR REFERENCE NUMBER: NW30/5/1/2/3/2/1/358  
DEDECT REFERENCE NUMBER: NWP/EIA/50/2011  
DEA REFERENCE NUMBER: 12/9/11/L675/7**

**This is to certify that I**


**Mr A van Rensburg**

.....  
**In my capacity as a representative of**

*Downstream Irrigator (Buffelspoort)*  
.....

**have received the following documents:**

**PLEASE COMPLETE AND TICK RELEVANT BOX**

|  |   |
|--|---|
| <b>20 English hard copies of the BACKGROUND INFORMATION DOCUMENT (BID) FOR THE ENVIRONMENTAL IMPACT ASSESSMENT AND ENVIRONMENTAL MANAGEMENT PROGRAMME (EIA/EMP) AMENDMENT FOR THARISA MINERALS (PTY) LTD</b> |  |
|--|---|

Date: *20 / 01 / 2012*

*A van Rensburg*  
Signature/ Stamp:

TOLU-12 → Focussed Scoping Meeting Invite - 31 Jan 2012

Kgomotso Motlhasedl  
P O Box 422  
Marikana  
0284

John Molusi  
P O Box 4822  
Marikana  
0284

D. & M.M. Potgieter  
P O Box 248  
Marikana  
0284

G.J. Smit  
P O Box 32  
Marikana  
0284

E.A.S. Strydom  
P O Box 265  
Kroondal  
0350

Harber Hermanus  
P O Box 4979  
Buffelspoort  
0284

G.J. Smit  
P O Box 32  
Marikana  
0284

G.J. Fouche  
P O Box 248  
Marikana  
0284

H.G. Pieterse  
P O Box 4618  
Marikana  
0284

C.C. Henning  
P O Box 570  
Marikana  
0284

Lukas Olivier  
P O Box 454  
Moolinooi  
0325

Dutch Reformed Church  
P O Box 398  
Marikana  
0284

P.C. van Wyk  
P O Box 1847  
Moolinooi  
0325

G.J. Du Preez  
P O Box 129  
Kroondal  
0350

Dabepie Beleggins CC/ Sealchem CC  
P O Box 4714  
Buffelspoort  
0284

P.J. Schoeman  
P O Box 20188  
Proteapark  
0305

Willelm Vistor David  
Private Bag x501  
Marikana  
0284

Tinus de Deer  
P O Box 139  
Moolinooi  
0325

**FOURWAYS**  
Private Bag X033, Rivonia, 2128  
Tel: (011) 465-8272/7  
Fax: (011) 465-8273/8

31/01/2012 



**BACKGROUND INFORMATION DOCUMENT FOR THE  
ENVIRONMENTAL IMPACT ASSESSMENT AND ENVIRONMENTAL  
MANAGEMENT PROGRAMME (EIA/EMP) AMENDMENT FOR THARISA  
MINERALS (PTY) LTD**

**DMR REFERENCE NUMBER: NW30/5/1/2/3/2/1/358**

**DEDECT REFERENCE NUMBER: NWP/EIA/50/2011**

**DEA REFERENCE NUMBER: 12/9/11/L675/7**

**This is to certify that I**

~~Ms Kgomoetse Rosina Motlasedi~~

*Appearance Motlasedi*

**in my capacity as a representative of**

**Municipal Ward Councillor**

**have received the following documents:**

**PLEASE COMPLETE AND TICK RELEVANT BOX**

|  |  |
|--|--|
| <b>50 English and 50 Setswana hard copies of the BACKGROUND INFORMATION DOCUMENT (BID) FOR THE ENVIRONMENTAL IMPACT ASSESSMENT AND ENVIRONMENTAL MANAGEMENT PROGRAMME (EIA/EMP) AMENDMENT FOR THARISA MINERALS (PTY) LTD</b> |  |
|--|--|

Date: *20/01/2012*

Signature/ Stamp:

# RECORD OF CONSULTATION WORK

**PROJECT NAME:** THARISA EIA/EMP AMENDMENT I

**DATE:** 14 MARCH 2012

**CONDUCTED BY:** STELLA MOEKETSE




| Name and Surname        | Interest in area                  | Postal address and contact details | Received project info / Comments                 |
|-------------------------|-----------------------------------|------------------------------------|--|
| HILTON'S                | LAND OWNER<br>BYZIEFELS POORT     |                                    | M. M. M. M. M.                                   |
| Eulondq + Pip<br>Jacobs | LAND Owner<br>Elandsdrift         | 071 0700 618                       | Jacobs   |
| Jainie<br>Jacob         | land owned<br>Elandsdrift         |                                    | William Mathibe (worker)                         |
| William<br>Mathibe      | Farm<br>Workers                   |                                    | hardship - can't write                           |
| Hendrik<br>Trumpie.     | Pensioner<br>Renting from Tharisa | P.O. Box 629,<br>MARIKANA<br>0284  | Yes, no comments at this stage.<br>Received BID: |

# RECORD OF CONSULTATION WORK

**PROJECT NAME:** THARISA EIA/EMP AMENDMENT I

**DATE:** 14 MARCH 2012

**CONDUCTED BY:** STELLA MOEKETSE

| Name and Surname                 | Interest in area  | Postal address and contact details              | Received project info / Comments   |
|----------------------------------|---|---|--|
| M.S KARAMI<br>KARAMI BROER<br>CC | BUFFELSPAART  | P.O. Box 1951<br>WATERFALL<br>0353              |   |
| J.F. vd Merwe<br>JOHANN.         | ER 91/3/1<br>GED 24 (GEDCELTE<br>VAN GED '1)<br>BUFFELSPAART<br>343 560 | Box 309<br>MAERIKANT<br>0384                    |   |
| B. Blom<br>BEJINDA               | JO 243 Perton<br>40<br>BUFFELSPAART                                     | Box 1914<br>WATERFALL MAIL<br>0353              |  |
|                                  |   | Wet.  | left the BMS at the<br>gate - PMS<br>Will collect it there.                        |
| 'Willem van<br>Schalkwyk         | Farm 31A<br>Buffelspaart  | PO Box 4664<br>Buffelspaart<br>Mantlana<br>0284 | Left documents with<br>daylight  |

Willem @ susboerdery.co.za 082 7738095  
Schalka @ susboerdery.co.za 083 3108303



| Name and Surname  | Interest in area                             | Postal address and contact details            | Received project info / Comments                                     |
|-------------------|--|---|--|
| P.F. Baden        | Huur by<br>Mr. Potgieter                     | Posbus 427<br>Northam<br>0860<br>0791947781   | Het inligting gekry  |
| J.E. J. v. Vuuren | Huur by<br>Mr. Potgieter                     | Posbus 1641<br>Mooiwooi<br>0325<br>0767708143 | Het inligting ontvang.   |
| D. Potgieter      | Eenjaar<br>Koffieskaal<br>Lorran 157         | Posbus 248                                    | Het inligting ontvang.   |
| H. Swanson        | Koffieskaal                                  | aletspe@yahoo.<br>com.                        | Het inligting ontvang.   |
| BEN MOTSI LE      | Employee<br>@<br>Hillside B/B                | Dr Smith                                      | Received <sup>BID</sup> from beledi of<br>Dr Swale (A4-Hillside B/B) |
| JOHAN VAN HEERDEN | LANDOWNER<br>PORTION 159 (A6)<br>KOFFIESKAAL | P.O. Box 37442<br>ORIS<br>0250                | RECEIVED   |
| Tenant            | -  | left the BID<br>on the gate                   |  |

| Name and Surname                               | Interest in area                           | Postal address and contact details                   | Received project info / Comments                               |
|--|--|--|--|
| DAVID<br>Mkhari                                | TENANT<br>PLOT A25                         | P.O. Box 26<br>MARIKANG<br>0284                      | Mkhari<br>Yes  |
| MRS M.V.<br>J.J. Coetsee<br>(Johnny) (Sarelle) | Landowner<br>PART 100<br>BUFFELSPOORT      | P.O. Box 880<br>Mooiwooi<br>0325.                    | Coetsee<br>johnmysarelle.coetsee@gmail.com                     |
| D.P. Coetsee<br>FAC. Coetsee                   | Plot 34.3<br>Buffelspoort<br>(Sec. 52) A26 | P.O. Box 57<br>MARIKANG<br>0284                      | Coetsee<br>mweb@nwweb.co.za                                    |
| Nancye Muns<br>E. SUBIZIUS                     | Buffels<br>Poort<br>Plot A28               | POBUS 135<br>Grootmanco<br>P.O. Box 1942<br>Mooiwooi | Tenant - Alt UNREISBURG?<br>MUNS.<br>EBEN. SUBIZIUS@hounny.com |
| EBEN   | Buffelspoort                               | FRUITE BAG 222<br>MOOIWOOI<br>6                      | Sunny  |
| SULO<br>MATEBELE                               | PLOT (29)                                  | MARIKANG<br>P.O. Box 187<br>0284                     | Mkhari   |
| Willie<br>Potgieter                            | Plot<br>(17)                               |  |  |

potgieter

| Name and Surname                     | Interest in area                  | Postal address and contact details                          | Received project info / Comments |
|--------------------------------------|-----------------------------------|---|----------------------------------|
| RONIA DU PLESSIS<br>DRAAI DU PLESSIS | LAND OWNER<br>BUFFELSPOORT        | P.O. Box 5050<br>RUSTENBURG<br>073 095 8055<br>082 572 0258 | H. Joubert                       |
| H. K. KOEN                           | A 7)<br>(17 + 86)<br>BUFFELSPOORT | goush@mweb.co.za  | S. Koen                          |
| AMRY PAPA                            | A 9                               | 0724120910  | Or                               |
| LUKA                                 | A 10                              | 0723358653  | LIV                              |
| JUNITA<br>ELASURUS                   | (A 14)<br>H. beduit<br>Treasurer  | 083 295 0035  | Jesmus                           |
| Al van Rensburg                      | A 12                              | b.pereyds@mweb.co.za<br>0825537221                          | Al WJ van Rensburg               |
| Mamie Ruyter                         | F 18 + 19                         | Rustenburg<br>Mantel<br>02841                               | M. Ruyter                        |

0834220845  
H. Joubert  
083 3253

# RECORD OF CONSULTATION WORK

**PROJECT NAME:** THARISA EIA/EMP AMENDMENT I

**DATE:** 14 MARCH 2012

**CONDUCTED BY:** STELLA MOEKETSE

| Name and Surname                   | Interest in area   | Postal address and contact details                          | Received project info / Comments |
|------------------------------------|--|---|----------------------------------|
| <p>Handwritten: Monica mokoale</p> | <p>Handwritten: Landowner<br/>GD 233<br/>SEA-SEA 146</p> | <p>Handwritten: P.O. Box<br/>WT 324, Marikana<br/>02826</p> | <p>Handwritten: 072 973 9433</p> |
|                                    |  |   |                                  |
|                                    |  |   |                                  |
|                                    |  |   |                                  |
|                                    |  |   |                                  |

# RECORD OF CONSULTATION WORK

PROJECT NAME: THARISA EIA/EMP AMENDMENT I

DATE: <sup>16</sup>14 MARCH 2012

CONDUCTED BY: STELLA MOEKETSE

| Name and Surname                                      | Interest in area   | Postal address and contact details  | Received project info / Comments |
|---|--|---|----------------------------------|
| H.M. WILKINSON - MALAN (HESTER) (RENTAL FROM THARISA) | FARM SPRUITFONTEIN 362, SECTION 361, MARIKANA BUSINESS - OWNER! SPRUITFONTEIN 6 P. & KZONGAZ WILDLIFE SALE | P.O. Box 139 MARIKANA 0284.<br>E-MAIL: Wilkinson-Malan@vodemail.co.za<br>CELL: 0829536551 | YES. —                           |
| * B.H.P. MALAN (BEN) (BROTHER)                        | - GRAVE YARD<br>FARM SPRUITFONTEIN 362, SECTION 361  | e-mail:<br>ben.malan@sanconserv.co.za<br>Cell: 0824144010                                 |                                  |
| * MARIEE MARAIS (SUSTEL)                              | FARM SPRUITFONTEIN 362, SEC. 362<br>RENTAL BUILDING ON PROPERTY  | e-mail: spectramusk@telkomsa.net<br>Cell: 0833255529                                      |                                  |
| * PINA MALAN (SUSTEL IN LAW)                          | - GRAVE YARD<br>FARM SPRUITFONTEIN 362, SEC 362  | Cell: 0823749175<br>e-mail:<br>ina.malan@sanconserv.co.za                                 |                                  |
| * BETTIE VAN RENSBURG (PINA MOTHER)                   | - GRAVE YARD<br>FARM SPRUITFONTEIN 362, SEC 361  | Cell: 0824031646  |                                  |

| Name and Surname    | Interest in area                      | Postal address and contact details | Received project info / Comments               |
|---------------------|---------------------------------------|------------------------------------|--|
| Johannes Sage       | Employee @ Pieter van Rensburg Pieter |                                    | Yes  |
| PETER VAN RENSBURG  | Land Owner                            |                                    | 083 325 0865                                   |
| Jackie van Wyk      |                                       | 082 4994724                        | Left Bid with the employee                     |
| JOHNNY PIETERSE     | JOHNNY PIET ERSE @ ZA-BOSCH .COM      | 082 371 0162                       | Yes  |
| MANIE PIETERSE      | JA                                    | 07 800 77388                       | Yes  |
| Hennie van Rensburg | Land Owner                            | 0833 259177                        | Yes<br>298 Kaffertokkeval<br>176<br>239<br>353 |
| C H Grobler Hermans | 11 Pas BUS 17 ' MARIKANA              | 083 726 7874                       | Yes Plot 276 geduik<br>VA 342                  |

| Name and Surname    | Interest in area          | Postal address and contact details | Received project info / Comments     |
|---------------------|---------------------------|------------------------------------|--------------------------------------|
|                     |                           |                                    | Left the BID at the gate             |
|                     |                           |                                    | Left the BID at the gate.            |
| Hannes van Rensburg | prop. Rensburgs<br>TENANT | PORTION 356                        | prop. Rensburg                       |
| HENNIE VAN RENSBURG | LANDOWNER                 | PORTION 147                        | YES                                  |
| JAN VORSTER         | LANDOWNER                 | PORTION 175                        | E: MAIL.<br>YES RENTHIAV@HOTMAIL.COM |
| T. JAN KENSBUK      | LANDOWNER                 | PLOT K 35 (144)                    | YES                                  |
| H. Harbar           | Land owner                | PLT 154                            | Yes                                  |

| Name and Surname  | Interest in area                                  | Postal address and contact details                                   | Received project info / Comments            |
|-------------------|---|--|---|
| H L J MALAN       | TENNANT<br>ON ROAT 251<br>SPRUITFONTEIN           | Box 139<br>MARILANNA<br>0284<br>Wilkinson - Malan & Vermaak - Co. ZA | YES   |
| C. Henning        | Land oors<br>Part 173 von<br>Mordelike<br>gebied. | Box 570<br>Makikaran<br>0284   | YES<br>henning99@ovi.com                    |
|                   |   |  | Left BID at the gate.                       |
|                   |   |  | Left BID in the house, door<br>was open and |
| E. Eloff<br>staff | TENNANT<br>PER 8 of 108.                          | BSBUS 865<br>Mooi Nooi   | staff.                                      |
| Puntch            | Owner (K27)                                       | K27  | helped BID at the gate.                     |
| ↓                 | ↓   | ↓  | Left BID with employees.                    |



| Name and Surname                              | Interest in area | Postal address and contact details | Received project info / Comments |
|---|------------------|------------------------------------|----------------------------------|
| GJ + M.D<br>du Preez                          | Owners           | Box 197<br>Kroonval<br>0350        | Cell: 0825653870                 |
| A.S. SMITH                                    | RENTAL           | STEVENSON - SMITH<br>214 GOMAL COY | 072 777 6669                     |
| Lappies El<br>Alfred Labuschagne<br>NHA Quake | Worker           |                                    | YES                              |
|   |                  |                                    | Left BID at the gate.            |
|   |                  |                                    |                                  |
|   |                  |                                    |                                  |
|   |                  |                                    |                                  |



## Victoria Tucker

---

**From:** Stella Moeketse  
**Sent:** 20 January 2012 06:32 PM  
**To:** Victoria Tucker  
**Subject:** FW: IAP registration  
**Attachments:** 2012-01-19.Advertisement.pdf

**Importance:** High

Please update the database accordingly.

Thanks

**Stella Moeketse**  
**Environmental Assessment Practitioner**  
**SLR Consulting (Africa) (Pty) Ltd**

Email: [smoeketse@slrconsulting.com](mailto:smoeketse@slrconsulting.com)  
Mobile: +27 72 380 5609  
Tel: +27 11 467 0945  
Ext: 2010  
Fax: +27 11 467 0978

SLR Africa (Block 7)  
Fourways Manor Office Park  
2191, Cnr Roos and Macbeth Streets  
Fourways, Johannesburg  
South Africa, Johannesburg, 2060, South Africa

**From:** Anderson, Tara [<mailto:Tara.Anderson@lonmin.com>]  
**Sent:** 20 January 2012 12:31 PM  
**To:** Stella Moeketse  
**Cc:** Swart, Elize; Fiehn, Hazel; Chetty, Karen  
**Subject:** IAP registration  
**Importance:** High

To whom it may concern,

This email serves as formal registration as an interested and affected party to the following reference numbers:

- DMR reference number: NW30/5/1/2/3/2/1/358
- DEDECT reference number: NWP/EIA/50/2011
- DEA reference number : 12/9/11/L675

The following persons are to be registered:

|  |   |
|--|---|
| Ms. Elize Swart<br>Group Manager Environment – Lonmin Plc.     | <a href="mailto:Elize.swart@lonmin.com">Elize.swart@lonmin.com</a><br>(014) 571 2813<br>083 287 6345    |
| Ms. Tara Anderson<br>Group Air Quality Specialist – Lonmin Plc | <a href="mailto:Tara.anderson@lonmin.com">Tara.anderson@lonmin.com</a><br>(014)571 2005<br>083 610 2432 |

|   |  |
|---|--|
| Ms. Karen Chetty<br>Group Water Specialist – Lonmin Plc         | <a href="mailto:Karen.chetty@lonmin.com">Karen.chetty@lonmin.com</a><br>(014) 571 2139<br>083 950 1638 |
| Ms. Hazel Fiehn<br>Group Land and Waste Specialist – Lonmin Plc | <a href="mailto:Hazel.fiehn@lonmin.com">Hazel.fiehn@lonmin.com</a><br>(014) 571 2182<br>083 259 0507   |

**Tara Anderson (nee van Rookhuijzen)**

Air Quality Specialist  
Lonmin Environmental Centre

Office: 014 571 2005  
Mobile: 083 610 2432  
Direct Fax: 086 634 5572

Lonmin Group comprising: Lonmin Plc trading in South Africa as Lonmin Management Services I Reg. No. 1969/000015/10; Western Platinum Ltd I Reg. No. 1963/003589/06; Eastern Platinum Ltd I Reg. No. 1987/070294/06; Messina Platinum Mines Ltd I Reg. No. 1968/000958/06; Akanani Mining (Pty) Ltd I Reg. No. 1999/009073/07; Marikana Housing Development Company NPC I Reg. No. 1998/022231/08

This email and all contents are subject to the following disclaimer:

[www.lonmin.com/emaildisclaimer](http://www.lonmin.com/emaildisclaimer) (HTML)

## Stella Moeketse

---

**From:** Victoria Tucker  
**Sent:** 24 January 2012 10:21 AM  
**To:** paintcentre@telkomsa.net; andries.venter@lonmin.com; jknkosi@dla.gov.za; multrader@iafrica.com; greensys@global.co.za; Engela.jansevanrensberg@bcx.co.za; pwolvaardt@xstrata.co.za; jbarnard@tiscali.co.za; jvr@sun.ac.za; johانب@bwie.co.za; jeannine@lpelaw.co.za; renthiav@hotmail.com; dvanrensburg@afrihost.co.za; greensys@global.co.za; jaco@gwisa.com; pc@gwisa.com; elandsafety@yahoo.com; sealchem@telkomsa.net; dvanrensburg@afrihost.co.za; Wilkinson\_Malan@vodamail.co.za; jannie.jacobs@lonmin.net; info@benhausgroup.com; rizettem@atkv.org.za; Johnny.Pietasi@za.bosch.com; ansajoubert@yahoo.com; Pwolvaardt@xstrata.co.za; andresnr@alliedcranehire.co.za; trappersrtb@mweb.co.za; maos@gwisa.com; pjansevanrensburg@omnia.co.za; rpatton@mweb.co.za; jwesson@wessanorth.co.za; janejohn@mweb.co.za; kmarx@wessanorth.co.za; cjoubert02@amplats.co.za; eheyman@angloplat.com; jmalan@angloplat.com; andreb2@amplats.co.za; MarisaPienaar@assore.com; dave.starley@aquarius.co.za; general@kpm.co.za; hennie@aquarius.co.za; sandy@aquarius.co.za; geoff@bpcc.co.za; charliem@bakwena.co.za; josephine.krzyz@implats.co.za; muna.forbang@lonplats.com; andries.venter@lonmin.com; karl.schubert@lonmin.com; natalie.kincaid-smith@lonmin.com; ecoombes@salene.com; Walter.murray@samancorcr.com; Brandon.irsigler@samancorcr.com; Heather.fleming@samancorcr.com; cnmeiring@xstrata.co.za; ndawson@xstrata.co.za; svisser@xstrata.co.za; yvstaden@xstrata.co.za; sbyleveldt@xstrata.co.za; sbuys@xstrata.co.za; sbuys@xstratacopper.cl; hermanb@ifmsa.co.za; iwatson@boyntonplatinum.com; hhattingh@eastplats.co.za; ben@hernic.co.za; mining@hernic.co.za; siju@mweb.co.za; roestok@eskom.co.za; Rejoice.makaba@eskom.co.za; bohmerw@eskom.co.za; Wendy.poulton@eskom.co.za; Bill@transnet.co.za; claudk@spoonet.co.za; Mojabatho.finger@transnet.net; Magal001@mweb.co.za; phyllisg@magalieswater.co.za; phatelal@magalieswater.co.za; bptransport@uiply.com; buks.kruger@hotworks.co.za; aaron@mekls.nwp.gov.za; mmohlalisi@nwpg.gov.za; mokomalrb@webmail.co.za; DTMahlaku@nwpg.gov.za; nemutandanit@dwaf.gov.za; ishmaelm@nda.agric.za; clast@nwpg.gov.za; jmarais@deat.gov.za; cscheermeyer@sahra.org.za; jknkosi@ruraldevelopment.gov.za; JKNkosi@dla.gov.za; dkmolebatsi@ruraldevelopment.gov.za; niehaus@nwpg.gov.za; hpnel@mweb.co.za; evdyk@nwpg.gov.za; kmekgoe@rustenburg.gov.za; tlenake@rtbcc.co.za; gomolemomoalusi@madibeng.gov.za; sammkhabela@madibeng.gov.za; info@rainstar.co.za; Elize.swart@lonmin.com; Tara.anderson@lonmin.com; Karen.chetty@lonmin.com; Hazel.fiehn@lonmin.com

**Cc:** Stella Moeketse; Victoria Tucker  
**Subject:** Tharisa Minerals - Environmental Impact Assessment and Environmental Management Programme (EIA/EMP) Amendment  
**Attachments:** BID\_Tharisa\_EMPAmend\_Eng\_20Jan2012 PDF.pdf; T014-12 Figure 1 for Bid with Amendments Layout1 (1)\_Email.jpg

Dear Interested and Affected Party

You and/or your organisation have been identified as an interested and/or affected party that may want to be informed about the proposed EIA/EMP amendment for Tharisa Minerals. In this regard, a background information document (BID) is attached to this e-mail.

If you would like to submit comments/questions and you would like these to be considered in the scoping process, please fax or e-mail these to SLR Consulting (Africa) (formerly known as Metago) by 24 February 2012. In addition, a public scoping meeting has been arranged for Thursday 16 February 2012, at 16h30, at the Retief Primary School Hall near Marikana.

If you have any questions in this regard please contact the undersigned.

Regards

**Stella Moeketse**  
**Environmental Assessment Practitioner**  
SLR Consulting (Africa) (Pty) Ltd

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

Mobile: +27 72 380 5609

Tel: +27 11 467 0945

Ext: 2010

Fax: +27 11 467 0978

SLR Africa (Block 7)  
Fourways Manor Office Park  
2191, Cnr Roos and Macbeth Streets  
Fourways, Johannesburg  
South Africa, Johannesburg, 2060, South Africa

**Victoria Tucker**  
SLR Consulting (Africa) (Pty) Ltd

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

Mobile: +27 83 533 3576

Tel: +27 11 467 0945

Ext: 2007

Fax: +27 11 467 0978

SLR Africa (Block 7)  
Fourways Manor Office Park  
2191, Cnr Roos and Macbeth Streets  
Fourways, Johannesburg  
South Africa, Johannesburg, 2060, South Africa

Victoria Tucker

---

**From:** Stella Moeketse  
**Sent:** 24 January 2012 03:13 PM  
**To:** Victoria Tucker  
**Subject:** FW: Tharisa Projects

FYI

**Stella Moeketse**  
**Environmental Assessment Practitioner**  
**SLR Consulting (Africa) (Pty) Ltd**

Email: [smoeketse@slrconsulting.com](mailto:smoeketse@slrconsulting.com)  
Mobile: +27 72 380 5609  
Tel: +27 11 467 0945  
Ext: 2010  
Fax: +27 11 467 0978

SLR Africa (Block 7)  
Fourways Manor Office Park  
2191, Cnr Roos and Macbeth Streets  
Fourways, Johannesburg  
South Africa, Johannesburg, 2060, South Africa

**From:** Lesego Raborifi [<mailto:LesegoR@ifmsa.co.za>]  
**Sent:** 23 January 2012 03:27 PM  
**To:** Stella Moeketse  
**Subject:** Tharisa Projects

Good day,

I will like to be registered as an interested and affected party member, pertaining to the following applications made.

DMR Ref no: NW30/5/1/2/8/2/1/358  
DEDECT Ref. No: NWP/EIA/50/2011  
DEA ref. No: 12/9/11/L675

Kindly send me applicable documents pertaining to the above referenced documents. Also please send me directions to the venue of the public meeting to be held in February.

Regards,



**Lesego Raborifi**  
Environmental Coordinator

International Ferro Metals SA (Pty) Ltd  
Private Bag 2223, Mooinooi, 0325  
South Africa

Phone: +27 14 574 6300 (Switchboard) or  
+27 14 574 6452 (Direct)  
Mobile: +27 72 346 9676  
Fax: +27 86 527 2418  
Email: [lesegor@ifmsa.co.za](mailto:lesegor@ifmsa.co.za)  
Internet: [www.ifmi.com](http://www.ifmi.com)

\_\_\_\_\_ Information from ESET NOD32 Antivirus, version of virus signature database 6819  
(20120123) \_\_\_\_\_

The message was checked by ESET NOD32 Antivirus.

Email message - is OK  
image001.png - is OK

<http://www.eset.com>

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This e-mail message has been scanned for Viruses and Content and cleared by **MailMarshal**

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## Victoria Tucker

---

**From:** Stella Moeketse  
**Sent:** 24 January 2012 11:32 AM  
**To:** Victoria Tucker  
**Subject:** FW: Tharisa Minerals

Hi Vic,

Will you please translate or find someone to help with it and file accordingly.

Many thanks.

Regards

**Stella Moeketse**  
**Environmental Assessment Practitioner**  
SLR Consulting (Africa) (Pty) Ltd

Email: [smoeketse@slrconsulting.com](mailto:smoeketse@slrconsulting.com)  
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Fax: +27 11 467 0978

SLR Africa (Block 7)  
Fourways Manor Office Park  
2191, Cnr Roos and Macbeth Streets  
Fourways, Johannesburg  
South Africa, Johannesburg, 2060, South Africa

**From:** andre [<mailto:maritzja@mweb.co.za>]  
**Sent:** 24 January 2012 10:10 AM  
**To:** Stella Moeketse  
**Subject:** Tharisa Minerals

Me Stella Moeketse

### **Beswaar teen bogenoemde ontwikkeling te kafferskraal 342 JO en Elandsdrift 467 JO**

My besware teen die bogenoemde ontwikkeling is as volg :

1. My besigheid Buffelspoort drankwinkel is in die Buffelspark winkelsentrum oorkant die ATKV.
2. Ons besigheid is hoofsaaklik afhanklik van vakansie gangers, my vrese is dat weens die ontwikkeling minder toeriste na ons area gaan kom, en sodoende word ons benadeel.
3. Die ondergrondse watertafel gaan besoedel word.
4. Die boere wat afhanklik is van besproeiings water uit die Buffelspoort dam, se kwotas gaan ingeperk word.

5. Die voorgenome ontwikkeling gaan nadelige uitwerking het op ons eiendom waarde, en in die aansiene toekoms gaan die eiendomme af gegraduateer word.
6. Die rook van die smelter gaan ons gesondheid benadeel, sowel as ons vrugte, diere en aangeplante gewasse en eiendomme , die ontwikkeling gaan globale verwarming aanhelp en is nie omgewings vriendelik nie.

Ek staar my nie blind teen voorgenome werk skepping en ontwikkeling nie, maar ons geografiese ligging is nie geskik vir enige besoedeling nie, en gaan 'n negatiewe inpak hê op ons hele globale ekonomie, die enigste oplossing waarby ek sal toestem tot so 'n ontwikkeling is, dat die myngroep ons moet uitkoop om sodoende hulle in staat te kan stel om voort te gaan met hulle ontwikkeling

Opregte dank

*Andre Maritz*

Sel 0825554019

fax 0866841274

[maritzja@mweb.co.za](mailto:maritzja@mweb.co.za)

Buffelspoort drankwinkel eienaar

## Victoria Tucker

---

**From:** Stella Moeketse  
**Sent:** 25 January 2012 01:32 PM  
**To:** Victoria Tucker  
**Subject:** FW: Tharisa Minerals - Environmental Impact Assessment and Environmental Management Programme (EIA/EMP) Amendment

FYI

**Stella Moeketse**  
**Environmental Assessment Practitioner**  
SLR Consulting (Africa) (Pty) Ltd

Email: [smoeketse@slrconsulting.com](mailto:smoeketse@slrconsulting.com)  
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SLR Africa (Block 7)  
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2191, Cnr Roos and Macbeth Streets  
Fourways, Johannesburg  
South Africa, Johannesburg, 2060, South Africa

**From:** jschoeman@xstrata.co.za [mailto:jschoeman@xstrata.co.za]  
**Sent:** 25 January 2012 01:16 PM  
**To:** Stella Moeketse  
**Subject:** FW: Tharisa Minerals - Environmental Impact Assessment and Environmental Management Programme (EIA/EMP) Amendment

Hi Stella

I am the owner of Farm 342JQ Kafferskraal, portion 352. Could you please add me to your distribution list for future correspondence. Would be highly appreciated as I gave up my e-mail address on your previous meetings at the Retief Primary School. I am sure I also fall into the affected area.

Thanks

Jaco Schoeman  
Xstrata Alloys - Western Mines  
Admin Manager  
Office - 014 597 8051 fax / (8052)  
083 260 1816  
[jschoeman@xstrata.co.za](mailto:jschoeman@xstrata.co.za)

**From:** Victoria Tucker [mailto:vtucker@slrconsulting.com]  
**Sent:** 24 January 2012 10:21 AM  
**To:** [paintcentre@telkomsa.net](mailto:paintcentre@telkomsa.net); [andries.venter@lonmin.com](mailto:andries.venter@lonmin.com); [jknkosi@dla.gov.za](mailto:jknkosi@dla.gov.za); [multrader@iafrica.com](mailto:multrader@iafrica.com); [greensys@global.co.za](mailto:greensys@global.co.za); [Engela.jansevanrensberg@bcx.co.za](mailto:Engela.jansevanrensberg@bcx.co.za); [pwolvaardt@xstrata.co.za](mailto:pwolvaardt@xstrata.co.za); [jbarnard@tiscali.co.za](mailto:jbarnard@tiscali.co.za);

[jvr@sun.ac.za](mailto:jvr@sun.ac.za); [johanb@bwie.co.za](mailto:johanb@bwie.co.za); [jeannine@lpelaw.co.za](mailto:jeannine@lpelaw.co.za); [renthiav@hotmail.com](mailto:renthiav@hotmail.com); [dvanrensburg@afrihost.co.za](mailto:dvanrensburg@afrihost.co.za); [greensys@global.co.za](mailto:greensys@global.co.za); [jaco@gwisa.com](mailto:jaco@gwisa.com); [pc@gwisa.com](mailto:pc@gwisa.com); [elandsafety@yahoo.com](mailto:elandsafety@yahoo.com); [sealchem@telkomsa.net](mailto:sealchem@telkomsa.net); [dvanrensburg@afrihost.co.za](mailto:dvanrensburg@afrihost.co.za); [Wilkinson\\_Malan@vodamail.co.za](mailto:Wilkinson_Malan@vodamail.co.za); [jannie.jacobs@lonmin.net](mailto:jannie.jacobs@lonmin.net); [info@benhausgroup.com](mailto:info@benhausgroup.com); [rizettem@atkv.org.za](mailto:rizettem@atkv.org.za); [Johnny.Pietasi@za.bosch.com](mailto:Johnny.Pietasi@za.bosch.com); [ansajoubert@yahoo.com](mailto:ansajoubert@yahoo.com); [Pwolvwaardt@xstrata.co.za](mailto:Pwolvwaardt@xstrata.co.za); [andresnr@alliedcranehire.co.za](mailto:andresnr@alliedcranehire.co.za); [trappersrtb@mweb.co.za](mailto:trappersrtb@mweb.co.za); [maos@gwisa.com](mailto:maos@gwisa.com); [pjansevanrensburg@omnia.co.za](mailto:pjansevanrensburg@omnia.co.za); [rpaton@mweb.co.za](mailto:rpaton@mweb.co.za); [jwesson@wessanorth.co.za](mailto:jwesson@wessanorth.co.za); [janejohn@mweb.co.za](mailto:janejohn@mweb.co.za); [km Marx@wessanorth.co.za](mailto:km Marx@wessanorth.co.za); [cjoubert02@amplats.co.za](mailto:cjoubert02@amplats.co.za); [eheymann@angloplat.com](mailto:eheymann@angloplat.com); [jmalan@angloplat.com](mailto:jmalan@angloplat.com); [andreb2@amplats.co.za](mailto:andreb2@amplats.co.za); [MarisaPienaar@assore.com](mailto:MarisaPienaar@assore.com); [dave.starley@aquariussa.co.za](mailto:dave.starley@aquariussa.co.za); [general@kpm.co.za](mailto:general@kpm.co.za); [hennie@aquariussa.co.za](mailto:hennie@aquariussa.co.za); [sandy@aquariussa.co.za](mailto:sandy@aquariussa.co.za); [geoff@bpcc.co.za](mailto:geoff@bpcc.co.za); [charlem@bakwena.co.za](mailto:charlem@bakwena.co.za); [josephine.krzyz@implats.co.za](mailto:josephine.krzyz@implats.co.za); [muna.forbang@lonplats.com](mailto:muna.forbang@lonplats.com); [andries.venter@lonmin.com](mailto:andries.venter@lonmin.com); [karl.schubert@lonmin.com](mailto:karl.schubert@lonmin.com); [natalie.kincald-smith@lonmin.com](mailto:natalie.kincald-smith@lonmin.com); [ecoombes@salene.com](mailto:ecoombes@salene.com); [Walter.murray@samancorcr.com](mailto:Walter.murray@samancorcr.com); [Brandon.irsigler@samancorcr.com](mailto:Brandon.irsigler@samancorcr.com); [Heather.fierling@samancorcr.com](mailto:Heather.fierling@samancorcr.com); [cnmeiring@xstrata.co.za](mailto:cnmeiring@xstrata.co.za); [ndawson@xstrata.co.za](mailto:ndawson@xstrata.co.za); [svisser@xstrata.co.za](mailto:svisser@xstrata.co.za); [yvstaden@xstrata.co.za](mailto:yvstaden@xstrata.co.za); [sbyleveldt@xstrata.co.za](mailto:sbyleveldt@xstrata.co.za); [sbuys@xstrata.co.za](mailto:sbuys@xstrata.co.za); [sbuys@xstratacopper.d](mailto:sbuys@xstratacopper.d); [hermanb@ifmsa.co.za](mailto:hermanb@ifmsa.co.za); [iwatson@boyntonplatinum.com](mailto:iwatson@boyntonplatinum.com); [hhattingh@eastplats.co.za](mailto:hhattingh@eastplats.co.za); [ben@hernlc.co.za](mailto:ben@hernlc.co.za); [mining@hernic.co.za](mailto:mining@hernic.co.za); [sjuu@mweb.co.za](mailto:sjuu@mweb.co.za); [roestok@eskom.co.za](mailto:roestok@eskom.co.za); [Rejoice.makaba@eskom.co.za](mailto:Rejoice.makaba@eskom.co.za); [bohmerw@eskom.co.za](mailto:bohmerw@eskom.co.za); [Wendy.poulton@eskom.co.za](mailto:Wendy.poulton@eskom.co.za); [Bill@transnet.co.za](mailto:Bill@transnet.co.za); [claudk@spoomet.co.za](mailto:claudk@spoomet.co.za); [Moiabatho.finger@transnet.net](mailto:Moiabatho.finger@transnet.net); [Magal001@mweb.co.za](mailto:Magal001@mweb.co.za); [phyllisg@magalieswater.co.za](mailto:phyllisg@magalieswater.co.za); [phatelal@magalieswater.co.za](mailto:phatelal@magalieswater.co.za); [bptransport@uiplay.com](mailto:bptransport@uiplay.com); [buks.kruger@hotmail.com](mailto:buks.kruger@hotmail.com); [aaron@mekis.nwp.gov.za](mailto:aaron@mekis.nwp.gov.za); [mmohlalsi@nwp.gov.za](mailto:mmohlalsi@nwp.gov.za); [mokomalrb@webmail.co.za](mailto:mokomalrb@webmail.co.za); [DTMahlaku@nwp.gov.za](mailto:DTMahlaku@nwp.gov.za); [nemutandanit@dwaf.gov.za](mailto:nemutandanit@dwaf.gov.za); [ishmaelm@nda.agric.za](mailto:ishmaelm@nda.agric.za); [clast@nwp.gov.za](mailto:clast@nwp.gov.za); [jmarais@deat.gov.za](mailto:jmarais@deat.gov.za); [cscheermeyer@sahra.org.za](mailto:cscheermeyer@sahra.org.za); [jinkosi@ruraldevelopment.gov.za](mailto:jinkosi@ruraldevelopment.gov.za); [JKNkosi@dla.gov.za](mailto:JKNkosi@dla.gov.za); [dkmolebatsi@ruraldevelopment.gov.za](mailto:dkmolebatsi@ruraldevelopment.gov.za); [niehaus@nwp.gov.za](mailto:niehaus@nwp.gov.za); [hpnel@mweb.co.za](mailto:hpnel@mweb.co.za); [evdyk@nwp.gov.za](mailto:evdyk@nwp.gov.za); [kmekgoe@rustenburg.gov.za](mailto:kmekgoe@rustenburg.gov.za); [tlenake@rtbcc.co.za](mailto:tlenake@rtbcc.co.za); [gomolemomoalusi@madibeng.gov.za](mailto:gomolemomoalusi@madibeng.gov.za); [sammkhabela@madibeng.gov.za](mailto:sammkhabela@madibeng.gov.za); [info@rainstar.co.za](mailto:info@rainstar.co.za); [Elize.swart@lonmin.com](mailto:Elize.swart@lonmin.com); [Tara.anderson@lonmin.com](mailto:Tara.anderson@lonmin.com); [Karen.chetty@lonmin.com](mailto:Karen.chetty@lonmin.com); [Hazel.fiehn@lonmin.com](mailto:Hazel.fiehn@lonmin.com)

Cc: Stella Moeketse; Victoria Tucker

**Subject:** Tharisa Minerals - Environmental Impact Assessment and Environmental Management Programme (EIA/EMP) Amendment

Dear Interested and Affected Party

You and/or your organisation have been identified as an interested and/or affected party that may want to be informed about the proposed EIA/EMP amendment for Tharisa Minerals. In this regard, a background information document (BID) is attached to this e-mail.

If you would like to submit comments/questions and you would like these to be considered in the scoping process, please fax or e-mail these to SLR Consulting (Africa) (formerly known as Metago) by 24 February 2012. In addition, a public scoping meeting has been arranged for Thursday 16 February 2012, at 16h30, at the Retief Primary School Hall near Marikana.

If you have any questions in this regard please contact the undersigned.

Regards

**Stella Moeketse**  
**Environmental Assessment Practitioner**  
SLR Consulting (Africa) (Pty) Ltd

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

Mobile: +27 72 380 5609

Tel: +27 11 467 0945

Ext: 2010

Fax: +27 11 467 0978

SLR Africa (Block 7)  
Fourways Manor Office Park  
2191, Cnr Roos and Macbeth Streets

## Victoria Tucker

---

**From:** Stella Moeketse  
**Sent:** 25 January 2012 12:02 PM  
**To:** Victoria Tucker  
**Subject:** IAP

Hi Vic,

New IAP for registration.

Joseph Ncoshosho  
Tel: 071 442 0488  
Postal address:  
P O Box 159  
Marikana  
0284

**Stella Moeketse**  
**Environmental Assessment Practitioner**  
**SLR Consulting (Africa) (Pty) Ltd**

Email: [smoeketse@slrconsulting.com](mailto:smoeketse@slrconsulting.com)  
Mobile: +27 72 380 5609  
Tel: +27 11 467 0945  
Ext: 2010  
Fax: +27 11 467 0978

SLR Africa (Block 7)  
Fourways Manor Office Park  
2191, Cnr Roos and Macbeth Streets  
Fourways, Johannesburg  
South Africa, Johannesburg, 2060, South Africa

## Victoria Tucker

---

**From:** Stella Moeketse  
**Sent:** 25 January 2012 11:06 AM  
**To:** Victoria Tucker  
**Subject:** FW: Tharisa Minerals - Environmental Impact Assessment and Environmental Management Programme (EIA/EMP) Amendment  
**Attachments:** BID\_Tharisa\_EMPAmend\_Eng\_20Jan2012 PDF.pdf; T014-12 Figure 1 for Bid with Amendments Layout1 (1)\_Email.jpg

FYI

**Stella Moeketse**  
**Environmental Assessment Practitioner**  
SLR Consulting (Africa) (Pty) Ltd

Email: [smoeketse@slrconsulting.com](mailto:smoeketse@slrconsulting.com)  
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SLR Africa (Block 7)  
Fourways Manor Office Park  
2191, Cnr Roos and Macbeth Streets  
Fourways, Johannesburg  
South Africa, Johannesburg, 2060, South Africa

**From:** THurter@xstrata.co.za [mailto:THurter@xstrata.co.za]  
**Sent:** 25 January 2012 10:55 AM  
**To:** Stella Moeketse  
**Subject:** FW: Tharisa Minerals - Environmental Impact Assessment and Environmental Management Programme (EIA/EMP) Amendment

Good day Stella

Can you please register me as an interested party?

Regards

*Tommie Hurter*  
*Xstrata Alloys: Group Environmental Manager*  
Telephone: (014) 596 2218  
Cell: 083 324 5370  
Fax: 086 557 2497  
Email: [thurter@xstrata.co.za](mailto:thurter@xstrata.co.za)



**From:** Visser, Susan (Divisional HQ - Alloys)  
**Sent:** 25 January 2012 10:48 AM  
**To:** O'Reilly, Rodney (Eland - Alloys); Janse van Rensburg, Gert (Eland - Alloys); Hurter, Tommie (Rustenburg Shared

Services - Alloys)

**Subject:** FW: Tharisa Minerals - Environmental Impact Assessment and Environmental Management Programme (EIA/EMP) Amendment

For your info

**From:** Victoria Tucker [<mailto:vtucker@slrconsulting.com>]

**Sent:** 24 January 2012 10:21 AM

**To:** [paintcentre@telkomsa.net](mailto:paintcentre@telkomsa.net); [andries.venter@lonmin.com](mailto:andries.venter@lonmin.com); [jknkosi@dla.gov.za](mailto:jknkosi@dla.gov.za); [multrader@iafrica.com](mailto:multrader@iafrica.com); [greensys@global.co.za](mailto:greensys@global.co.za); [Engela.jansevanrensberg@bcx.co.za](mailto:Engela.jansevanrensberg@bcx.co.za); Wolvaardt, Pieter (Rustenburg - Alloys); [jbarnard@tiscali.co.za](mailto:jbarnard@tiscali.co.za); [jvr@sun.ac.za](mailto:jvr@sun.ac.za); [johanb@bwie.co.za](mailto:johanb@bwie.co.za); [jeannine@lpelaw.co.za](mailto:jeannine@lpelaw.co.za); [renthiav@hotmail.com](mailto:renthiav@hotmail.com); [dvanrensburg@afrihost.co.za](mailto:dvanrensburg@afrihost.co.za); [greensys@global.co.za](mailto:greensys@global.co.za); [jaco@gwisa.com](mailto:jaco@gwisa.com); [pc@gwisa.com](mailto:pc@gwisa.com); [elandsafety@yahoo.com](mailto:elandsafety@yahoo.com); [sealchem@telkomsa.net](mailto:sealchem@telkomsa.net); [dvanrensburg@afrihost.co.za](mailto:dvanrensburg@afrihost.co.za); [Wilkinson.Malan@vodamail.co.za](mailto:Wilkinson.Malan@vodamail.co.za); [jannie.jacobs@lonmin.net](mailto:jannie.jacobs@lonmin.net); [info@benhausgroup.com](mailto:info@benhausgroup.com); [rizettem@atkv.org.za](mailto:rizettem@atkv.org.za); [Johnny.Pietasi@za.bosch.com](mailto:Johnny.Pietasi@za.bosch.com); [ansajoubert@yahoo.com](mailto:ansajoubert@yahoo.com); Wolvaardt, Pieter (Rustenburg - Alloys); [andresnr@alliedcranehire.co.za](mailto:andresnr@alliedcranehire.co.za); [trappersrtb@mweb.co.za](mailto:trappersrtb@mweb.co.za); [maos@gwisa.com](mailto:maos@gwisa.com); [pjansevanrensburg@omnia.co.za](mailto:pjansevanrensburg@omnia.co.za); [rpatton@mweb.co.za](mailto:rpatton@mweb.co.za); [jwesson@wessanorth.co.za](mailto:jwesson@wessanorth.co.za); [janejohn@mweb.co.za](mailto:janejohn@mweb.co.za); [kmarx@wessanorth.co.za](mailto:kmarx@wessanorth.co.za); IAP - Joubert, Christo; [eheymann@angloplat.com](mailto:eheymann@angloplat.com); j malan; [andreb2@amplats.co.za](mailto:andreb2@amplats.co.za); [MarisaPienaar@assore.com](mailto:MarisaPienaar@assore.com); [dave.starley@aquariussa.co.za](mailto:dave.starley@aquariussa.co.za); [general@kpm.co.za](mailto:general@kpm.co.za); [hennie@aquariussa.co.za](mailto:hennie@aquariussa.co.za); [sandy@aquariussa.co.za](mailto:sandy@aquariussa.co.za); [geoff@bpcc.co.za](mailto:geoff@bpcc.co.za); [charlem@bakwena.co.za](mailto:charlem@bakwena.co.za); [josephine.krzyz@implats.co.za](mailto:josephine.krzyz@implats.co.za); [muna.forbang@lonplats.com](mailto:muna.forbang@lonplats.com); [andries.venter@lonmin.com](mailto:andries.venter@lonmin.com); [karl.schubert@lonmin.com](mailto:karl.schubert@lonmin.com); [natalie.kincaid-smith@lonmin.com](mailto:natalie.kincaid-smith@lonmin.com); [ecoombes@salene.com](mailto:ecoombes@salene.com); [Walter.murray@samancorcr.com](mailto:Walter.murray@samancorcr.com); [Brandon.irsigler@samancorcr.com](mailto:Brandon.irsigler@samancorcr.com); [Heather.fleming@samancorcr.com](mailto:Heather.fleming@samancorcr.com); Dawson, Nic (Divisional HQ - Alloys); Visser, Susan (Divisional HQ - Alloys); Van Staden, Yolanda (Divisional HQ - Alloys); Byleveldt, Sybrandt (Waterval - Alloys); [sbuys@xstrata.co.za](mailto:sbuys@xstrata.co.za); [sbuys@xstratacopper.ci](mailto:sbuys@xstratacopper.ci); [hermanb@ifmsa.co.za](mailto:hermanb@ifmsa.co.za); [lwatson@boyntonplatinum.com](mailto:lwatson@boyntonplatinum.com); [hhattingh@eastplats.co.za](mailto:hhattingh@eastplats.co.za); IAP - Hefer, Ben; [mining@hemic.co.za](mailto:mining@hemic.co.za); [siju@mweb.co.za](mailto:siju@mweb.co.za); [roestok@eskom.co.za](mailto:roestok@eskom.co.za); [Rejoice.makaba@eskom.co.za](mailto:Rejoice.makaba@eskom.co.za); [bohmerw@eskom.co.za](mailto:bohmerw@eskom.co.za); [Wendy.poulton@eskom.co.za](mailto:Wendy.poulton@eskom.co.za); [Bill@transnet.co.za](mailto:Bill@transnet.co.za); IAP - Keytel, Claud; [Mojabathofinger@transnet.net](mailto:Mojabathofinger@transnet.net); [Magal001@mweb.co.za](mailto:Magal001@mweb.co.za); [phyllisq@magalieswater.co.za](mailto:phyllisq@magalieswater.co.za); [phatelal@magalieswater.co.za](mailto:phatelal@magalieswater.co.za); [bptransport@uiplay.com](mailto:bptransport@uiplay.com); [buks.kruger@hotworks.co.za](mailto:buks.kruger@hotworks.co.za); IAP - Khariwe, Aaron; [mmohlalisi@nwpq.gov.za](mailto:mmohlalisi@nwpq.gov.za); [mokomalrb@webmail.co.za](mailto:mokomalrb@webmail.co.za); [DTMahlaku@nwpq.gov.za](mailto:DTMahlaku@nwpq.gov.za); [nemutandanit@dwaf.gov.za](mailto:nemutandanit@dwaf.gov.za); [ishmaelm@nda.agric.za](mailto:ishmaelm@nda.agric.za); [clast@nwpq.gov.za](mailto:clast@nwpq.gov.za); Jan Marais; [cscheermeyer@sahra.org.za](mailto:cscheermeyer@sahra.org.za); [jnkosi@ruraldevelopment.gov.za](mailto:jnkosi@ruraldevelopment.gov.za); [JKNkosi@dla.gov.za](mailto:JKNkosi@dla.gov.za); [dkmolebatsi@ruraldevelopment.gov.za](mailto:dkmolebatsi@ruraldevelopment.gov.za); [niehaus@nwpq.gov.za](mailto:niehaus@nwpq.gov.za); [hpnel@mweb.co.za](mailto:hpnel@mweb.co.za); [evdyk@nwpq.gov.za](mailto:evdyk@nwpq.gov.za); [kmekgoe@rustenburg.gov.za](mailto:kmekgoe@rustenburg.gov.za); [tlenake@rtbcc.co.za](mailto:tlenake@rtbcc.co.za); [gomolemomoalusi@madibeng.gov.za](mailto:gomolemomoalusi@madibeng.gov.za); [sammkhabela@madibeng.gov.za](mailto:sammkhabela@madibeng.gov.za); [Info@rainstar.co.za](mailto:Info@rainstar.co.za); [Elize.swart@lonmin.com](mailto:Elize.swart@lonmin.com); [Tara.anderson@lonmin.com](mailto:Tara.anderson@lonmin.com); [Karen.chetty@lonmin.com](mailto:Karen.chetty@lonmin.com); [Hazel.fiehn@lonmin.com](mailto:Hazel.fiehn@lonmin.com)

**Cc:** Stella Moeketse; Victoria Tucker

**Subject:** Tharisa Minerals - Environmental Impact Assessment and Environmental Management Programme (EIA/EMP) Amendment

Dear Interested and Affected Party

You and/or your organisation have been identified as an interested and/or affected party that may want to be informed about the proposed EIA/EMP amendment for Tharisa Minerals. In this regard, a background information document (BID) is attached to this e-mail.

If you would like to submit comments/questions and you would like these to be considered in the scoping process, please fax or e-mail these to SLR Consulting (Africa) (formerly known as Metago) by 24 February 2012. In addition, a public scoping meeting has been arranged for Thursday 16 February 2012, at 16h30, at the Retief Primary School Hall near Marikana.

If you have any questions in this regard please contact the undersigned.

Regards

**Stella Moeketse**  
**Environmental Assessment Practitioner**  
SLR Consulting (Africa) (Pty) Ltd

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

Mobile: +27 72 380 5609

## Stella Moeketse

---

**From:** Stella Moeketse  
**Sent:** 01 February 2012 10:30 AM  
**To:** rjlabuschagne@ra.rockwell.com  
**Cc:** Victoria Tucker  
**Subject:** FW: THARISA MINERALS (PTY) LTD. EIA/EMP AMENDMENT I. FOCUSED SCOPING MEETING  
**Attachments:** Scoping\_focussed meeting invitation\_26Jan2012.pdf; BID\_Tharisa\_EMPAmend\_Eng\_20Jan2012 PDF.pdf; T014-12 Figure 1 for Bid with Amendments Layout1 (1)\_Email.jpg  
**Importance:** High

SLR Ref. No.: T014-12/ 710.20002.00012  
DEA Ref. No.: 12/9/11/L675/7  
DMR Ref. No.: NW30/5/5/1/2/3/1/358  
DEDECT Ref. No.: NWP/EIA/50/2011

26 January 2012

### **THARISA MINERALS (PTY) LTD EIA/EMP AMENDMENT I**

#### **FOCUSSED SCOPING MEETING FOR:**

**THE PROPOSED CONSTRUCTION AND OPERATION OF THE SMELTER HOUSE AND ASSOCIATED INFRASTRUCTURE, CONSTRUCTION AND OPERATION OF THE CHROME SAND DRYING PLANT, STORAGE OF HAZARDOUS SUBSTANCES, CHANGES TO THE DESIGN AND CHARACTERISTICS OF THE TAILINGS STORAGE FACILITY AND CHANGES TO THE GENERAL LAYOUT OF THE MINE**

Dear Interested and affected parties (IAPs),

Tharisa Minerals (Pty) Ltd (Tharisa) is an existing chrome and platinum group metals (PGM) concentrate producing mine that is located on the farms Kafferskraal 342 JQ, Rooikoppies 297 JQ and Elandsdrift 467 JQ near Marikana town. Tharisa Mine is situated in both the Rustenburg and Madibeng Local Municipalities and in the Bojanala Platinum District Municipality in the North West Province.

Tharisa proposes to construct and operate a PGM smelter house and associated infrastructure, construct and operate a chrome sand drying plant, store hazardous substances (eg. acid), store hazardous waste (eg. used acid), change the tailings storage facility (TSF) design and characteristics and change the general surface infrastructure layout at Tharisa Mine.

Prior to the commencement of the proposed projects an environmental assessment process including: a scoping phase, environmental impact assessment (EIA) phase and an environmental management programme (EMP) amendment has to be undertaken and be approved by the regulatory authorities. SLR Consulting (Africa) (Pty) Ltd (SLR) has been appointed by Tharisa to manage the environmental assessment process for the proposed projects.

As public involvement is an essential component of the environmental assessment process, you have been identified as one of the key stakeholders that may be interested in hearing more about the project and that may wish to provide input into the environmental assessment process.



This letter serves to invite you to the focused meeting for the key stakeholders. The proposed details for the meeting are provided below.

- **Date:** 16<sup>th</sup> February 2012
- **Venue:** Retief Primary School (Hall)
- **Time:** 11h00

Please note as an alternative to the focussed meeting, there will be a general mass public meeting. The details of this meeting are provided below.

- **Date:** 16<sup>th</sup> February 2012
- **Venue:** Retief Primary School (Hall)
- **Time:** 16h30

Attached please find a copy of the project's background information document (BID) prepared by SLR for your perusal and comments.

For any further information please contact the undersigned.

Kind regards

Stella

Moeketse

*For SLR Consulting (Africa) (Pty) Ltd  
E-mail: [smoeketse@slrconsulting.com](mailto:smoeketse@slrconsulting.com)*

**Stella Moeketse**  
**Environmental Assessment Practitioner**  
SLR Consulting (Africa) (Pty) Ltd

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South Africa, Johannesburg, 2060, South Africa



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## Victoria Tucker

---

**From:** Stella Moeketse  
**Sent:** 08 February 2012 01:28 PM  
**To:** Victoria Tucker  
**Subject:** FW: Tharisa Minerals - Environmental Impact Assessment and Environmental Management Programme (EIA/EMP) Amendment  
**Attachments:** Scan 1.pdf

Hi Victoria,

Please update the issues table with the attached comments below/above.

Many thanks.

Regards

**Stella Moeketse**  
**Environmental Assessment Practitioner**  
SLR Consulting (Africa) (Pty) Ltd

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

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Tel: +27 11 467 0945

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2191, Cnr Roos and Macbeth Streets  
Fourways, Johannesburg  
South Africa, Johannesburg, 2060, South Africa

**From:** Buks Kruger [<mailto:buks.kruger@hotworks.co.za>]  
**Sent:** 08 February 2012 01:17 PM  
**To:** Victoria Tucker; Stella Moeketse  
**Subject:** Re: Tharisa Minerals - Environmental Impact Assessment and Environmental Management Programme (EIA/EMP) Amendment

Dear Stella

Please find attached document with questions. The questions are as follows:

- The smelter house description mentions both alloy granulation and crushing – which one of the two processes will be utilised?
- What SO<sub>2</sub> and dust/particulate air pollution abatement equipment will be installed on the concentrate and chrome sand dryer plants as well as on the electric furnace off gas?
- What is the leaching characteristics of the iron sulphate and calcium sulphate residues from the leach circuit.
- Will the iron leach circuits produce any jarosite products
- Will there be minor element impurities in the waste acid – this includes Se, Te, Bi, Hg, Pb, Zn, etc
- Will there be any public roads be rerouted?

Regards

Buks Kruger

**Subject: Tharisa Minerals - Environmental Impact Assessment and Environmental Management Programme (EIA/EMP) Amendment**

Dear Interested and Affected Party

You and/or your organisation have been identified as an interested and/or affected party that may want to be informed about the proposed EIA/EMP amendment for Tharisa Minerals. In this regard, a background information document (BID) is attached to this e-mail.

If you would like to submit comments/questions and you would like these to be considered in the scoping process, please fax or e-mail these to SLR Consulting (Africa) (formerly known as Metago) by 24 February 2012. In addition, a public scoping meeting has been arranged for Thursday 16 February 2012, at 16h30, at the Retief Primary School Hall near Marikana.

If you have any questions in this regard please contact the undersigned.

Regards

**Stella Moeketse**  
**Environmental Assessment Practitioner**  
SLR Consulting (Africa) (Pty) Ltd

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**Victoria Tucker**  
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Tel: +27 11 467 0945

Fax: +27 11 467 0978

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Fourways Manor Office Park  
2191, Cnr Roos and Macbeth Streets

**Victoria Tucker**

---

**From:** Stella Moeketse  
**Sent:** 08 February 2012 02:01 PM  
**To:** Victoria Tucker  
**Subject:** FW: THARISA MINERALS (PTY) LTD. EIA/EMP AMENDMENT I. FOCUSED SCOPING MEETING  
**Attachments:** Tharisa form.docx

Hi Victoria,

Please update the issues table with the attached comments above.

Thanks

Regards

**Stella Moeketse**  
**Environmental Assessment Practitioner**  
SLR Consulting (Africa) (Pty) Ltd

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Fourways Manor Office Park  
2191, Cnr Roos and Macbeth Streets  
Fourways, Johannesburg  
South Africa, Johannesburg, 2060, South Africa

**From:** hettie.l@gwisa.com [mailto:hettie.l@gwisa.com]  
**Sent:** 08 February 2012 01:47 PM  
**To:** Stella Moeketse  
**Subject:** Re: THARISA MINERALS (PTY) LTD. EIA/EMP AMENDMENT I. FOCUSED SCOPING MEETING

Herewith completed form

H Le Roux  
Plot 7A  
Buffelspoort  
Cell:0835796866

—— Original Message ——

**From:** [Stella Moeketse](#)

**Date:** 2012/02/02 04:32:47 PM

**To:** [hettie.l@gwisa.com](mailto:hettie.l@gwisa.com)

**Subject:** THARISA MINERALS (PTY) LTD. EIA/EMP AMENDMENT I. FOCUSED SCOPING MEETING

SLR Ref. No.: T014-12/ 710.20002.00012

26 January 2012

DEA Ref. No.: 12/9/11/L675/7

DMR Ref. No.: NW30/5/5/1/2/3/1/358

DEDET Ref. No.: NWP/EIA/50.2011

## THARISA MINERALS (PTY) LTD

### EIA/EMP AMENDMENT I

#### FOCUSSED SCOPING MEETING FOR:

THE PROPOSED CONSTRUCTION AND OPERATION OF THE SMELTER HOUSE AND ASSOC INFRASTRUCTURE, CONSTRUCTION AND OPERATION OF THE CHROME SAND DRYING PL STORAGE OF HAZARdous SUBSTANCES, CHANGES TO THE DESIGN AND CHARACTERISTIC THE TAILINGS STORAGE FACILITY AND CHANGES TO THE GENERAL LAYOUT OF THE M

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be undertaken and be approved by the regulatory authorities. SLR Consulting (Africa) (Pty) Ltd (SLR) has been appointed by Tharisa to manage the environmental assessment process for the proposed projects.

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- **Venue:** Retief Primary School (Hall)
- **Time:** 11h00

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- **Date:** 16<sup>th</sup> February 2012
- **Venue:** Retief Primary School (Hall)
- **Time:** 16h30

Attached please find a copy of the project's background information document (BID) prepared by SLR for you and comments.

For any further information please contact the undersigned.

Kind regards

Stella

Moeketse

## Victoria Tucker

---

**From:** Stella Moeketse  
**Sent:** 08 February 2012 03:31 PM  
**To:** Victoria Tucker  
**Subject:** FW: THARISA MINERALS (PTY) LTD. EIA/EMP AMENDMENT I. FOCUSSED SCOPING MEETING - Interest in attending meeting

Hi Victoria,

Please update the issues table accordingly (Prof's issues and Thabang's response).

Thanks

Regards

**Stella Moeketse**  
**Environmental Assessment Practitioner**  
SLR Consulting (Africa) (Pty) Ltd

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SLR Africa (Block 7)  
Fourways Manor Office Park  
2191, Cnr Roos and Macbeth Streets  
Fourways, Johannesburg  
South Africa, Johannesburg, 2060, South Africa

**From:** Thabang Maluke [mailto:[tmaluke@tharisa.com](mailto:tmaluke@tharisa.com)]  
**Sent:** 08 February 2012 03:07 PM  
**To:** Stella Moeketse  
**Cc:** Thulani Ntshanga  
**Subject:** RE: THARISA MINERALS (PTY) LTD. EIA/EMP AMENDMENT I. FOCUSSED SCOPING MEETING - Interest in attending meeting

Hi there,

I have spoken to Prof. Retief and we have agreed that it will not be necessary for him to attend this meeting. We have agreed on the price for the purchase of the said property.

Regards,

TM

**From:** Stella Moeketse [mailto:[smoeketse@slrconsulting.com](mailto:smoeketse@slrconsulting.com)]  
**Sent:** 07 February 2012 10:57 AM  
**To:** Thabang Maluke  
**Cc:** Thulani Ntshanga

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Registered Office: Unit 2 Fourways Manor Office Park, Cnr Roos and Macbeth Street, Fourways, 2055, Gauteng, South Africa

**From:** Retief, JV, Prof <[jvr@sun.ac.za](mailto:jvr@sun.ac.za)> [<mailto:jvr@sun.ac.za>]  
**Sent:** 30 January 2012 05:05 PM  
**To:** Jonathan Frick  
**Cc:** Stella Moeketse  
**Subject:** RE: THARISA MINERALS (PTY) LTD. EIA/EMP AMENDMENT I. FOCUSSED SCOPING MEETING - Interest in attending meeting  
**Importance:** High

Dear Sir,

According to Figure 1, Drawing T014-12, 01/2012 entitled *LOCAL SETTING* the item indicated as "PROPOSED CHANGES NOT COMPLETED" Item #1 "WASTE ROCK DUMP" covers, or at least partly covers the property "Portion 135 (portion of portion 8), Kafferskraal 342, Registration Division JQ.

Could you please urgently confirm that my interpretation of the information sent to me is correct, or otherwise. This information would have a bearing on my interest in the two respective meetings scheduled for 16 February 2012, for which I received an invitation to attend, on behalf of my mother Mrs AC Retief.

Could you also please provide a clearer indication of the interrelationship between Item #1 and the said Portion 135.

With kind regards,  
JV Retief

PS  
A number of messages/invitations have been received. It is not always clear whether these are repeats of previous messages, modifications or new information.  
Please advise on what should be regarded as the (latest) set of relevant information.

**Prof JV Retief**  
Deeltydse Senior Navorsers  
Part-time Senior researcher  
Departement Siviele Ingenieurswese  
Department of Civil Engineering

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**From:** Jonathan Frick [<mailto:jfrick@slrconsulting.com>]  
**Sent:** 27 January 2012 15:15  
**To:** [paintcentre@telkomsa.net](mailto:paintcentre@telkomsa.net); [andries.venter@lonmin.com](mailto:andries.venter@lonmin.com); [jnkosi@dla.gov.za](mailto:jnkosi@dla.gov.za); [multitrader@iafrica.com](mailto:multitrader@iafrica.com); [greensys@global.co.za](mailto:greensys@global.co.za); [Engela.jansevanrensberg@bcx.co.za](mailto:Engela.jansevanrensberg@bcx.co.za); [pwolvaardt@xstrata.co.za](mailto:pwolvaardt@xstrata.co.za); [jbarnard@tiscali.co.za](mailto:jbarnard@tiscali.co.za); Retief, JV, Prof <[jvr@sun.ac.za](mailto:jvr@sun.ac.za)>; [johanb@bwie.co.za](mailto:johanb@bwie.co.za); [jeannine@lpelaw.co.za](mailto:jeannine@lpelaw.co.za); [renthlav@hotmail.com](mailto:renthlav@hotmail.com);



[dvanrensburg@afrihost.co.za](mailto:dvanrensburg@afrihost.co.za); [jaco@gwisa.com](mailto:jaco@gwisa.com); [pc@gwisa.com](mailto:pc@gwisa.com); [elandsafety@yahoo.com](mailto:elandsafety@yahoo.com); [sealchem@telkomsa.net](mailto:sealchem@telkomsa.net); [Wilkinson\\_Malan@vodamail.co.za](mailto:Wilkinson_Malan@vodamail.co.za); [jannie.jacobs@lonmin.net](mailto:jannie.jacobs@lonmin.net); [info@benhausgroup.com](mailto:info@benhausgroup.com); [Pwolyvaardt@xstrata.co.za](mailto:Pwolyvaardt@xstrata.co.za); [andries.venter@lonmin.com](mailto:andries.venter@lonmin.com); [info@benhausgroup.com](mailto:info@benhausgroup.com); [trappersrtb@mweb.co.za](mailto:trappersrtb@mweb.co.za); [maos@gwisa.com](mailto:maos@gwisa.com); [rpatton@mweb.co.za](mailto:rpatton@mweb.co.za); [jwesson@wessanorth.co.za](mailto:jwesson@wessanorth.co.za); [janejohn@mweb.co.za](mailto:janejohn@mweb.co.za); [kmarx@wessanorth.co.za](mailto:kmarx@wessanorth.co.za); [Magal001@mweb.co.za](mailto:Magal001@mweb.co.za); [phyllisg@magalieswater.co.za](mailto:phyllisg@magalieswater.co.za); [phatelal@magalieswater.co.za](mailto:phatelal@magalieswater.co.za); [admin@f3society.co.za](mailto:admin@f3society.co.za); [clm@marlin.co.za](mailto:clm@marlin.co.za); [chris@remig.co.za](mailto:chris@remig.co.za); [eisa@reming.co.za](mailto:eisa@reming.co.za); [aletspe@yahoo.co.uk](mailto:aletspe@yahoo.co.uk); [pip.jacobs@gmail.com](mailto:pip.jacobs@gmail.com); [info@adj.co.za](mailto:info@adj.co.za); [momaysport@gmail.com](mailto:momaysport@gmail.com); [morikoneng@telkomsa.net](mailto:morikoneng@telkomsa.net); [johnnysan nett.cotzee@gmail.com](mailto:johnnysan nett.cotzee@gmail.com); [billionsigns@gmail.com](mailto:billionsigns@gmail.com)

**Cc:** Stella Moeketse

**Subject:** THARISA MINERALS (PTY) LTD. EIA/EMP AMENDMENT I. FOCUSED SCOPING MEETING

SLR Ref. No.: T014-12/ 710.20002.00012

DEA Ref. No.: 12/9/11/L675/7

DMR Ref. No.: NW30/5/5/1/2/3/1/358

DEDECT Ref. No.: NWP/EIA/50/2011

26 January 2012

**THARISA MINERALS (PTY) LTD  
EIA/EMP AMENDMENT I**

**FOCUSED SCOPING MEETING FOR:**

**THE PROPOSED CONSTRUCTION AND OPERATION OF THE SMELTER HOUSE AND ASSOCIATED INFRASTRUCTURE, CONSTRUCTION AND OPERATION OF THE CHROME SAND DRYING PLANT, STORAGE OF HAZARDOUS SUBSTANCES, CHANGES TO THE DESIGN AND CHARACTERISTICS OF THE TAILINGS STORAGE FACILITY AND CHANGES TO THE GENERAL LAYOUT OF THE MINE**

Dear Interested and affected parties (IAPs),

Tharisa Minerals (Pty) Ltd (Tharisa) is an existing chrome and platinum group metals (PGM) concentrate producing mine that is located on the farms Kafferskraal 342 JQ, Rooikoppes 297 JQ and Elandsdrift 467 JQ near Marikana town. Tharisa Mine is situated in both the Rustenburg and Madibeng Local Municipalities and in the Bojanala Platinum District Municipality in the North West Province.

Tharisa proposes to construct and operate a PGM smelter house and associated infrastructure, construct and operate a chrome sand drying plant, store hazardous substances (eg. acid), store hazardous waste (eg. used acid), change the tailings storage facility (TSF) design and characteristics and change the general surface infrastructure layout at Tharisa Mine.

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As public involvement is an essential component of the environmental assessment process, you have been identified as one of the key stakeholders that may be interested in hearing more about the project and that may wish to provide input into the environmental assessment process.

This letter serves to invite you to the focused meeting for the key stakeholders. The proposed details for the meeting are provided below.

- **Date:** 16<sup>th</sup> February 2012
- **Venue:** Retief Primary School (Hall)
- **Time:** 11h00

Please note as an alternative to the focussed meeting, there will be a general mass public meeting. The details of this meeting are provided below.

- **Date:** 16<sup>th</sup> February 2012
- **Venue:** Retief Primary School (Hall)

- Time: 16h30

Attache d please find a copy of the project's background information document (BID) prepared by SLR for your perusal and comments.

For any further information please contact the undersigned.

Kind regards

Stella Moeketse

For SLR Consulting (Africa) (Pty) Ltd  
E-mail: [smoeketse@slrconsulting.com](mailto:smoeketse@slrconsulting.com)

**Jonathan Frick**  
SLR Consulting (Africa) (Pty) Ltd

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

Tel: +27 11 467 0945

Fax: +27 11 467 0978

SLR Africa (Block 7)  
Fourways Manor Office Park  
2191, Cnr Roos and Macbeth Streets  
Fourways, Johannesburg  
South Africa, Johannesburg, 2060, South Africa



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SLR Consulting (South Africa) (Proprietary) Limited and SLR Consulting (Africa) (Proprietary) Limited are both subsidiaries of SLR Management Ltd.  
Registered Office: Unit 2 Fourways Manor Office Park, Cnr Roos and Macbeth Street, Fourways, 2055, Gauteng, South Africa

## Victoria Tucker

---

**From:** Stella Moeketse  
**Sent:** 10 February 2012 09:06 AM  
**To:** Victoria Tucker  
**Subject:** FW: Elandsdrift Mooinooi

Hi Victoria,

Please update the database accordingly.

Thanks

**Stella Moeketse**  
**Environmental Assessment Practitioner**  
**SLR Consulting (Africa) (Pty) Ltd**

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

Mobile: +27 72 380 5609

Tel: +27 11 467 0945

Ext: 2010

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SLR Africa (Block 7)  
Fourways Manor Office Park  
2191, Cnr Roos and Macbeth Streets  
Fourways, Johannesburg  
South Africa, Johannesburg, 2060, South Africa

**From:** Jan & Retha Coetzee [<mailto:janc@absamail.co.za>]  
**Sent:** 09 February 2012 08:38 AM  
**To:** Stella Moeketse  
**Subject:** Elandsdrift Mooinooi



Tharisa Minerals

We did receive the letter about the Environmental Impact Assessment. Please keep me up to date with any meetings and mail about this development as I am a landowner on both sides of the N4.

Thank you

## Victoria Tucker

---

**From:** Stella Moeketse  
**Sent:** 10 February 2012 08:55 AM  
**To:** Elsa Steyn  
**Cc:** Victoria Tucker  
**Subject:** RE: Registration as Interested and Affected Party

Dear Elsa,

Thank you very much for expressing an interest in the project, we will add your name in our database.

Many thanks.

Kind regards

**Stella Moeketse**  
**Environmental Assessment Practitioner**  
SLR Consulting (Africa) (Pty) Ltd

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

Mobile: +27 72 380 5609

Tel: +27 11 467 0945

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Fax: +27 11 467 0978

SLR Africa (Block 7)  
Fourways Manor Office Park  
2191, Cnr Roos and Macbeth Streets  
Fourways, Johannesburg  
South Africa, Johannesburg, 2060, South Africa

**From:** Elsa Steyn [<mailto:elsa@remig.co.za>]  
**Sent:** 09 February 2012 10:23 PM  
**To:** Stella Moeketse  
**Subject:** Registration as Interested and Affected Party  
**Importance:** High

Dear Madam

Herewith attached please find our registration as Interested and Affected Party in respect of the proposed Tharisa Mine development.

Kindly acknowledge receipt.

Yours faithfully

**Elsa Steyn**  
Group Legal Advisor  
REMIG Group

 +1 (514) 885 5580 / +27 (11) 083 6686 / +27 (82) 927 7223

## Victoria Tucker

---

**From:** Stella Moeketse  
**Sent:** 14 February 2012 09:43 AM  
**To:** [freddie.geldenhuys@murrob.com](mailto:freddie.geldenhuys@murrob.com)  
**Cc:** [braam.blom@murrob.com](mailto:braam.blom@murrob.com); [freddieg@mweb.co.za](mailto:freddieg@mweb.co.za); [tmaluke@tharisa.com](mailto:tmaluke@tharisa.com); [rerasmus@tharisa.com](mailto:rerasmus@tharisa.com); Victoria Tucker  
**Subject:** RE:

Dear Freddie,

Thank you very much for expressing an interest in the project, we will add your name in our database and we will keep abreast with the developments in this project.

Many thanks.

Kind regards

**Stella Moeketse**  
**Environmental Assessment Practitioner**  
SLR Consulting (Africa) (Pty) Ltd

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

Mobile: +27 72 380 5609

Tel: +27 11 467 0945

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Fax: +27 11 467 0978

SLR Africa (Block 7)  
Fourways Manor Office Park  
2191, Cnr Roos and Macbeth Streets  
Fourways, Johannesburg  
South Africa, Johannesburg, 2060, South Africa

**From:** [freddie.geldenhuys@murrob.com](mailto:freddie.geldenhuys@murrob.com) [<mailto:freddie.geldenhuys@murrob.com>]  
**Sent:** 13 February 2012 02:02 PM  
**To:** Stella Moeketse  
**Cc:** [braam.blom@murrob.com](mailto:braam.blom@murrob.com); [freddieg@mweb.co.za](mailto:freddieg@mweb.co.za); [tmaluke@tharisa.com](mailto:tmaluke@tharisa.com); [rerasmus@tharisa.com](mailto:rerasmus@tharisa.com)  
**Subject:**

Good Afternoon Stella,

Would you please add us to your IAP's list and include us in future correspondence.

We are the owners of:

- Portion 40 of the farm Buffelspoort 343 – A T Blom
- Portion 26 and 97 of the farm Buffelspoort 343 – F.L.Geldenhuys

Both these properties are adjacent to the N4 directly opposite the mine.

**Freddie Geldenhuys**  
Operations Director

## Stella Moeketse

---

**From:** Stella Moeketse  
**Sent:** 10 February 2012 08:45 AM  
**To:** hein.wenhold@angloamerican.com  
**Cc:** Victoria Tucker  
**Subject:** THARISA MINERALS (PTY) LTD. EIA/EMP AMENDMENT I. FOCUSED SCOPING MEETING  
**Attachments:** Scoping\_focussed meeting invitation\_26Jan2012.pdf; BID\_Tharisa\_EMPAmend\_Eng\_20Jan2012 PDF.pdf; T014-12 Figure 1 for Bid with Amendments Layout1 (1)\_Email.jpg  
**Importance:** High

### THARISA MINERALS (PTY) LTD EIA/EMP AMENDMENT I

#### FOCUSSED SCOPING MEETING FOR:

**THE PROPOSED CONSTRUCTION AND OPERATION OF THE SMELTER HOUSE AND ASSOCIATED INFRASTRUCTURE, CONSTRUCTION AND OPERATION OF THE CHROME SAND DRYING PLANT, STORAGE OF HAZARDOUS SUBSTANCES, CHANGES TO THE DESIGN AND CHARACTERISTICS OF THE TAILINGS STORAGE FACILITY AND CHANGES TO THE GENERAL LAYOUT OF THE MINE**

Dear Mr Wenhood,

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For any further information please contact the undersigned.

Kind regards

**Stella Moeketse**  
**Environmental Assessment Practitioner**  
SLR Consulting (Africa) (Pty) Ltd

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

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Fourways Manor Office Park  
2191, Cnr Roos and Macbeth Streets  
Fourways, Johannesburg  
South Africa, Johannesburg, 2060, South Africa

## Stella Moeketse

---

**From:** Victoria Tucker  
**Sent:** 13 February 2012 02:47 PM  
**To:** 'motaunglucas25@gmail.com'  
**Cc:** Stella Moeketse  
**Subject:** THARISA MINERALS (PTY) LTD. EIA/EMP AMENDMENT I. FOCUSED SCOPING MEETING  
**Attachments:** Scoping\_focussed meeting invitation\_26Jan2012.pdf; BID\_Tharisa\_EMPAmend\_Eng\_20Jan2012 PDF.pdf; T014-12 Figure 1 for Bid with Amendments Layout1 (1)\_Email.jpg  
**Importance:** High

### THARISA MINERALS (PTY) LTD EIA/EMP AMENDMENT I

#### FOCUSSED SCOPING MEETING FOR:

**THE PROPOSED CONSTRUCTION AND OPERATION OF THE SMELTER HOUSE AND ASSOCIATED INFRASTRUCTURE, CONSTRUCTION AND OPERATION OF THE CHROME SAND DRYING PLANT, STORAGE OF HAZARDOUS SUBSTANCES, CHANGES TO THE DESIGN AND CHARACTERISTICS OF THE TAILINGS STORAGE FACILITY AND CHANGES TO THE GENERAL LAYOUT OF THE MINE**

Dear Reverend Motaung,

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For any further information please contact the undersigned.

Kind regards

**Stella Moeketse**  
**Environmental Assessment Practitioner**  
SLR Consulting (Africa) (Pty) Ltd

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

Mobile: +27 72 380 5609

Tel: +27 11 467 0945

Ext: 2010

Fax: +27 11 467 0978

SLR Africa (Block 7)  
Fourways Manor Office Park  
2191, Cnr Roos and Macbeth Streets  
Fourways, Johannesburg  
South Africa, Johannesburg, 2060, South Africa

**From:** Victoria Tucker  
**Sent:** 15 February 2012 08:47 AM  
**To:** 'cjoubert02@amplats.co.za'; 'eheyman@angloplat.com'; 'jmalan@angloplat.com'; 'andreb2@amplats.co.za'; 'MarisaPienaar@assore.com'; 'dave.starley@aquariussa.co.za'; 'general@kpm.co.za'; 'hennie@aquariussa.co.za'; 'sandy@aquariussa.co.za'; 'geoff@bpcc.co.za'; 'charliem@bakwena.co.za'; 'josephine.krzyz@implats.co.za'; 'muna.forbang@lonplats.com'; 'andries.venter@lonmin.com'; 'natalie.kincaid-smith@lonmin.com'; 'Elize.swart@lonmin.com'; 'Tara.anderson@lonmin.com'; 'Karen.chetty@lonmin.com'; 'Hazel.fiehn@lonmin.com'; 'karl.schubert@lonmin.com'; 'Walter.murray@samancorcr.com'; 'Brandon.irsigler@samancorcr.com'; 'Heather.fleming@samancorcr.com'; 'cnmeiring@xstrata.co.za'; 'ndawson@xstrata.co.za'; 'svisser@xstrata.co.za'; 'yvstaden@xstrata.co.za'; 'sbyleveldt@xstrata.co.za'; 'sbuys@xstrata.co.za'; 'sbuys@xstratacopper.cl'; 'thurter@xstrata.co.za'; 'lesegor@ifmsa.co.za'; 'hermanb@ifmsa.co.za'; 'iwatson@boyntonplatinum.com'; 'hattingh@eastplats.co.za'; 'ben@hernic.co.za'; 'mining@hernic.co.za'  
**Cc:** Stella Moeketse  
**Subject:** THARISA MINERALS (PTY) LTD. EIA/EMP AMENDMENT I. FOCUSSED SCOPING MEETING

**THARISA MINERALS (PTY) LTD  
EIA/EMP AMENDMENT I**

**FOCUSSED SCOPING MEETING FOR:**

**THE PROPOSED CONSTRUCTION AND OPERATION OF THE SMELTER HOUSE AND ASSOCIATED INFRASTRUCTURE, CONSTRUCTION AND OPERATION OF THE CHROME SAND DRYING PLANT, STORAGE OF HAZARDOUS SUBSTANCES, CHANGES TO THE DESIGN AND CHARACTERISTICS OF THE TAILINGS STORAGE FACILITY AND CHANGES TO THE GENERAL LAYOUT OF THE MINE**

Dear Interested and Affected Parties,

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- **Date:** 16<sup>th</sup> February 2012
- **Venue:** Retief Primary School (Hall)
- **Time:** 16h30

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For any further information please contact the undersigned.

Kind regards

**Stella Moeketse**  
**Environmental Assessment Practitioner**  
SLR Consulting (Africa) (Pty) Ltd

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

Mobile: +27 72 380 5609

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SLR Africa (Block 7)  
Fourways Manor Office Park  
2191, Cnr Roos and Macbeth Streets  
Fourways, Johannesburg  
South Africa, Johannesburg, 2060, South Africa

## Stella Moeketse

---

**From:** Victoria Tucker  
**Sent:** 15 February 2012 02:33 PM  
**To:** thurter@xstrata.co.za  
**Subject:** RE: THARISA MINERALS (PTY) LTD. EIA/EMP AMENDMENT I. FOCUSSED SCOPING MEETING  
**Attachments:** BID\_Tharisa\_EMPAmend\_Eng\_20Jan2012 PDF.PDF; T014-12 Figure 1 for Bid with Amendments Layout1 (1)\_Email.jpg

Good day Mr Hunter

Apologies – the BID is attached for your review.

Kind regards

---

**From:** THurter@xstrata.co.za [mailto:THurter@xstrata.co.za]  
**Sent:** 15 February 2012 02:24 PM  
**To:** Victoria Tucker  
**Subject:** RE: THARISA MINERALS (PTY) LTD. EIA/EMP AMENDMENT I. FOCUSSED SCOPING MEETING

Good day

I will not be able to the meetings tomorrow. Please forward the BID as it is not attached to the email as stated?

Regards

Tommie Hurter  
*Group Manager: Environment  
Xstrata Alloys*

*Telephone: +27 14 590 2406  
Fax: +27 86 557 2497  
Mobile: +83 324 5370*

*Email: [thurter@xstrata.co.za](mailto:thurter@xstrata.co.za)  
[www.xstrataalloys.com](http://www.xstrataalloys.com)*

---

**From:** Victoria Tucker [mailto:vtucker@slrconsulting.com]  
**Sent:** 15 February 2012 08:47 AM  
**To:** IAP - Joubert, Christo; [ehemann@angloplat.com](mailto:ehemann@angloplat.com); j malan; [andreb2@amplats.co.za](mailto:andreb2@amplats.co.za); [MarisaPienaar@assore.com](mailto:MarisaPienaar@assore.com); [dave.starley@aquariussa.co.za](mailto:dave.starley@aquariussa.co.za); [general@kpm.co.za](mailto:general@kpm.co.za); [hennie@aquariussa.co.za](mailto:hennie@aquariussa.co.za); [sandy@aquariussa.co.za](mailto:sandy@aquariussa.co.za); [geoff@bpcc.co.za](mailto:geoff@bpcc.co.za); [charliem@bakwena.co.za](mailto:charliem@bakwena.co.za); [josephine.krzyz@implats.co.za](mailto:josephine.krzyz@implats.co.za); [muna.forbang@lonplats.com](mailto:muna.forbang@lonplats.com); [andries.venter@lonmin.com](mailto:andries.venter@lonmin.com); [natalie.kincaid-smith@lonmin.com](mailto:natalie.kincaid-smith@lonmin.com); [Elize.swart@lonmin.com](mailto:Elize.swart@lonmin.com); [Tara.anderson@lonmin.com](mailto:Tara.anderson@lonmin.com); [Karen.chetty@lonmin.com](mailto:Karen.chetty@lonmin.com); [Hazel.fiehn@lonmin.com](mailto:Hazel.fiehn@lonmin.com); [karl.schubert@lonmin.com](mailto:karl.schubert@lonmin.com); [Walter.murray@samancorcr.com](mailto:Walter.murray@samancorcr.com); [Brandon.irsigler@samancorcr.com](mailto:Brandon.irsigler@samancorcr.com); [Heather.fleming@samancorcr.com](mailto:Heather.fleming@samancorcr.com); [cnmeiring@xstrata.co.za](mailto:cnmeiring@xstrata.co.za); Dawson, Nic (Divisional HQ - Alloys); Visser, Susan (Divisional HQ - Alloys); Van Staden, Yolanda (Divisional HQ - Alloys); Byleveldt, Sybrandt (Waterval - Alloys); [sbuys@xstrata.co.za](mailto:sbuys@xstrata.co.za); [sbuys@xstratacopper.cl](mailto:sbuys@xstratacopper.cl); Hurter, Tommie (Rustenburg Shared Services - Alloys); [lesegor@ifmsa.co.za](mailto:lesegor@ifmsa.co.za); [hermanb@ifmsa.co.za](mailto:hermanb@ifmsa.co.za); [iwatson@boyntonplatinum.com](mailto:iwatson@boyntonplatinum.com); [hattingsh@eastplats.co.za](mailto:hattingsh@eastplats.co.za); IAP - Hefer, Ben; [mining@hernic.co.za](mailto:mining@hernic.co.za)  
**Cc:** Stella Moeketse  
**Subject:** THARISA MINERALS (PTY) LTD. EIA/EMP AMENDMENT I. FOCUSSED SCOPING MEETING

**THARISA MINERALS (PTY) LTD  
EIA/EMP AMENDMENT I**

**FOCUSSED SCOPING MEETING FOR:  
THE PROPOSED CONSTRUCTION AND OPERATION OF THE SMELTER HOUSE AND ASSOCIATED  
INFRASTRUCTURE, CONSTRUCTION AND OPERATION OF THE CHROME SAND DRYING PLANT,  
STORAGE OF HAZARDOUS SUBSTANCES, CHANGES TO THE DESIGN AND CHARACTERISTICS OF  
THE TAILINGS STORAGE FACILITY AND CHANGES TO THE GENERAL LAYOUT OF THE MINE**

Dear Interested and Affected Parties,

Tharisa Minerals (Pty) Ltd (Tharisa) is an existing chrome and platinum group metals (PGM) concentrate producing mine that is located on the farms Kafferskraal 342 JQ, Rooikoppies 297 JQ and Elandsdrift 467 JQ near Marikana town. Tharisa Mine is situated in both the Rustenburg and Madibeng Local Municipalities and in the Bojanala Platinum District Municipality in the North West Province.

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- **Date:** 16<sup>th</sup> February 2012
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- **Time:** 11h00

Please note as an alternative to the focussed meeting, there will be a general mass public meeting. The details of this meeting are provided below.

- **Date:** 16<sup>th</sup> February 2012
- **Venue:** Retief Primary School (Hall)
- **Time:** 16h30

Attached please find a copy of the project's background information document (BID) prepared by SLR for your perusal and comments.

For any further information please contact the undersigned.

Kind regards

**Stella Moeketse**  
**Environmental Assessment Practitioner**  
SLR Consulting (Africa) (Pty) Ltd

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

Mobile: +27 72 380 5609

## Stella Moeketse

---

**From:** Victoria Tucker  
**Sent:** 15 February 2012 02:33 PM  
**To:** thurter@xstrata.co.za  
**Subject:** RE: THARISA MINERALS (PTY) LTD. EIA/EMP AMENDMENT I. FOCUSED SCOPING MEETING  
**Attachments:** BID\_Tharisa\_EMPAmend\_Eng\_20Jan2012 PDF.PDF; T014-12 Figure 1 for Bid with Amendments Layout1 (1)\_Email.jpg

Good day Mr Hunter

Apologies – the BID is attached for your review.

Kind regards

---

**From:** THurter@xstrata.co.za [mailto:THurter@xstrata.co.za]  
**Sent:** 15 February 2012 02:24 PM  
**To:** Victoria Tucker  
**Subject:** RE: THARISA MINERALS (PTY) LTD. EIA/EMP AMENDMENT I. FOCUSED SCOPING MEETING

Good day

I will not be able to the meetings tomorrow. Please forward the BID as it is not attached to the email as stated?

Regards

Tommie Hurter  
*Group Manager: Environment  
Xstrata Alloys*

*Telephone: +27 14 590 2406  
Fax: +27 86 557 2497  
Mobile: +83 324 5370*

*Email: [thurter@xstrata.co.za](mailto:thurter@xstrata.co.za)  
[www.xstrataalloys.com](http://www.xstrataalloys.com)*

---

**From:** Victoria Tucker [mailto:vtucker@slrconsulting.com]  
**Sent:** 15 February 2012 08:47 AM  
**To:** IAP - Joubert, Christo; [ehemann@angloplat.com](mailto:ehemann@angloplat.com); j malan; [andreb2@amplats.co.za](mailto:andreb2@amplats.co.za); [MarisaPienaar@assore.com](mailto:MarisaPienaar@assore.com); [dave.starley@aquariussa.co.za](mailto:dave.starley@aquariussa.co.za); [general@kpm.co.za](mailto:general@kpm.co.za); [hennie@aquariussa.co.za](mailto:hennie@aquariussa.co.za); [sandy@aquariussa.co.za](mailto:sandy@aquariussa.co.za); [geoff@bpcc.co.za](mailto:geoff@bpcc.co.za); [charliem@bakwena.co.za](mailto:charliem@bakwena.co.za); [josephine.krzyz@implats.co.za](mailto:josephine.krzyz@implats.co.za); [muna.forbang@lonplats.com](mailto:muna.forbang@lonplats.com); [andries.venter@lonmin.com](mailto:andries.venter@lonmin.com); [natalie.kincaid-smith@lonmin.com](mailto:natalie.kincaid-smith@lonmin.com); [Elize.swart@lonmin.com](mailto:Elize.swart@lonmin.com); [Tara.anderson@lonmin.com](mailto:Tara.anderson@lonmin.com); [Karen.chetty@lonmin.com](mailto:Karen.chetty@lonmin.com); [Hazel.fiehn@lonmin.com](mailto:Hazel.fiehn@lonmin.com); [karl.schubert@lonmin.com](mailto:karl.schubert@lonmin.com); [Walter.murray@samancorcr.com](mailto:Walter.murray@samancorcr.com); [Brandon.irsigler@samancorcr.com](mailto:Brandon.irsigler@samancorcr.com); [Heather.fleming@samancorcr.com](mailto:Heather.fleming@samancorcr.com); [cnmeiring@xstrata.co.za](mailto:cnmeiring@xstrata.co.za); Dawson, Nic (Divisional HQ - Alloys); Visser, Susan (Divisional HQ - Alloys); Van Staden, Yolanda (Divisional HQ - Alloys); Byleveldt, Sybrandt (Waterval - Alloys); [sbuys@xstrata.co.za](mailto:sbuys@xstrata.co.za); [sbuys@xstratacopper.cl](mailto:sbuys@xstratacopper.cl); Hurter, Tommie (Rustenburg Shared Services - Alloys); [lesegor@ifmsa.co.za](mailto:lesegor@ifmsa.co.za); [hermanb@ifmsa.co.za](mailto:hermanb@ifmsa.co.za); [iwatson@boyntonplatinum.com](mailto:iwatson@boyntonplatinum.com); [hatingh@eastplats.co.za](mailto:hatingh@eastplats.co.za); IAP - Hefer, Ben; [mining@hernic.co.za](mailto:mining@hernic.co.za)  
**Cc:** Stella Moeketse  
**Subject:** THARISA MINERALS (PTY) LTD. EIA/EMP AMENDMENT I. FOCUSED SCOPING MEETING

**THARISA MINERALS (PTY) LTD**  
**EIA/EMP AMENDMENT I**

**FOCUSSED SCOPING MEETING FOR:  
THE PROPOSED CONSTRUCTION AND OPERATION OF THE SMELTER HOUSE AND ASSOCIATED  
INFRASTRUCTURE, CONSTRUCTION AND OPERATION OF THE CHROME SAND DRYING PLANT,  
STORAGE OF HAZARDOUS SUBSTANCES, CHANGES TO THE DESIGN AND CHARACTERISTICS OF  
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- **Venue:** Retief Primary School (Hall)
- **Time:** 11h00

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- **Date:** 16<sup>th</sup> February 2012
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- **Time:** 16h30

Attached please find a copy of the project's background information document (BID) prepared by SLR for your perusal and comments.

For any further information please contact the undersigned.

Kind regards

**Stella Moeketse**  
**Environmental Assessment Practitioner**  
SLR Consulting (Africa) (Pty) Ltd

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

Mobile: +27 72 380 5609

## Stella Moeketse

---

**From:** Victoria Tucker  
**Sent:** 15 February 2012 10:22 AM  
**To:** 'Anderson, Tara'  
**Cc:** Stella Moeketse  
**Subject:** RE: THARISA MINERALS (PTY) LTD. EIA/EMP AMENDMENT I FOCUSED SCOPING MEETING

Thank you Tara

I have removed the below mentioned individuals from our database.

Kind regards

---

**From:** Anderson, Tara [mailto:Tara.Anderson@lonmin.com]  
**Sent:** 15 February 2012 10:17 AM  
**To:** Victoria Tucker  
**Cc:** Swart, Elize; Fiehn, Hazel; Chetty, Karen  
**Subject:** RE: THARISA MINERALS (PTY) LTD. EIA/EMP AMENDMENT I. FOCUSED SCOPING MEETING

Dear Victoria

Please note the following persons are not in the employ of Lonmin and should be removed from your database:

[muna.forbang@lonplats.com](mailto:muna.forbang@lonplats.com);  
[karl.schubert@lonmin.com](mailto:karl.schubert@lonmin.com)

[andries.venter@lonmin.com](mailto:andries.venter@lonmin.com);

[natalie.kincaid-smith@lonmin.com](mailto:natalie.kincaid-smith@lonmin.com)

Regards,  
Tara

Tara Anderson (*nee* van Rookhuijzen)

Lonmin Environmental Centre  
Office: 014 571 2005  
Mcbile: 083 610 2432

---

**From:** Victoria Tucker [mailto:vtucker@slrconsulting.com]  
**Sent:** 15 February 2012 08:47 AM  
**To:** [cjoubert02@amplats.co.za](mailto:cjoubert02@amplats.co.za); [eheyman@angloplat.com](mailto:eheyman@angloplat.com); [jimalan@angloplat.com](mailto:jimalan@angloplat.com); [andreb2@amplats.co.za](mailto:andreb2@amplats.co.za); [MarisaPienaar@assore.com](mailto:MarisaPienaar@assore.com); [dave.starley@aquariususa.co.za](mailto:dave.starley@aquariususa.co.za); [general@kpm.co.za](mailto:general@kpm.co.za); [hennie@aquariususa.co.za](mailto:hennie@aquariususa.co.za); [sandy@aquariususa.co.za](mailto:sandy@aquariususa.co.za); [geoff@bpcc.co.za](mailto:geoff@bpcc.co.za); [charliem@bakwena.co.za](mailto:charliem@bakwena.co.za); [josephine.krzyz@implats.co.za](mailto:josephine.krzyz@implats.co.za); [muna.forbang@lonplats.com](mailto:muna.forbang@lonplats.com); [andries.venter@lonmin.com](mailto:andries.venter@lonmin.com); [natalie.kincaid-smith@lonmin.com](mailto:natalie.kincaid-smith@lonmin.com); Swart, Elize; Anderson, Tara; Chetty, Karen; Fiehn, Hazel; [karl.schubert@lonmin.com](mailto:karl.schubert@lonmin.com); [Walter.murray@samancorcr.com](mailto:Walter.murray@samancorcr.com); [Brandon.irsigler@samancorcr.com](mailto:Brandon.irsigler@samancorcr.com); [Heather.fleming@samancorcr.com](mailto:Heather.fleming@samancorcr.com); [cnmeiring@xstrata.co.za](mailto:cnmeiring@xstrata.co.za); [ndawson@xstrata.co.za](mailto:ndawson@xstrata.co.za); [svisser@xstrata.co.za](mailto:svisser@xstrata.co.za); [yvstaden@xstrata.co.za](mailto:yvstaden@xstrata.co.za); [sbyleveldt@xstrata.co.za](mailto:sbyleveldt@xstrata.co.za); [sbuys@xstrata.co.za](mailto:sbuys@xstrata.co.za); [sbuys@xstratacopper.cl](mailto:sbuys@xstratacopper.cl); [thurter@xstrata.co.za](mailto:thurter@xstrata.co.za); [lesegor@ifmsa.co.za](mailto:lesegor@ifmsa.co.za); [hermanb@ifmsa.co.za](mailto:hermanb@ifmsa.co.za); [iwatson@boyntonplatinum.com](mailto:iwatson@boyntonplatinum.com); [hattingh@eastplats.co.za](mailto:hattingh@eastplats.co.za); [ben@hernic.co.za](mailto:ben@hernic.co.za); [mining@hernic.co.za](mailto:mining@hernic.co.za)  
**Cc:** Stella Moeketse  
**Subject:** THARISA MINERALS (PTY) LTD. EIA/EMP AMENDMENT I. FOCUSED SCOPING MEETING

**THARISA MINERALS (PTY) LTD  
EIA/EMP AMENDMENT I**

**FOCUSED SCOPING MEETING FOR:**



**THE PROPOSED CONSTRUCTION AND OPERATION OF THE SMELTER HOUSE AND ASSOCIATED INFRASTRUCTURE, CONSTRUCTION AND OPERATION OF THE CHROME SAND DRYING PLANT, STORAGE OF HAZARDOUS SUBSTANCES, CHANGES TO THE DESIGN AND CHARACTERISTICS OF THE TAILINGS STORAGE FACILITY AND CHANGES TO THE GENERAL LAYOUT OF THE MINE**

Dear Interested and Affected Parties,

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- **Time:** 11h00

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- **Time:** 16h30

Attached please find a copy of the project's background information document (BID) prepared by SLR for your perusal and comments.

For any further information please contact the undersigned.

Kind regards

**Stella Moeketse**  
**Environmental Assessment Practitioner**  
SLR Consulting (Africa) (Pty) Ltd

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

Mobile: +27 72 380 5609

Tel: +27 11 467 0945

Ext: 2010

## Stella Moeketse

---

**From:** Victoria Tucker  
**Sent:** 20 February 2012 07:37 AM  
**To:** dot@monkeypuzzle.co.za  
**Cc:** Stella Moeketse  
**Subject:** RE: BVC - Tharisa Minerals -EIA/EMP Meeting

Hi Dorothea

Thank you for the email. I will add your details to the database of this project and you will receive further IAP correspondence to your email address.

Kind regards

**Victoria Tucker**  
SLR Consulting (Africa) (Pty) Ltd

Email: [vtucker@slrconsulting.com](mailto:vtucker@slrconsulting.com)  
Mobile: +27 83 533 3576  
Tel: +27 11 467 0945  
Ext: 2007  
Fax: +27 11 467 0978

SLR Africa (Block 7)  
Fourways Manor Office Park  
2191, Cnr Roos and Macbeth Streets  
Fourways, Johannesburg  
South Africa, Johannesburg, 2060, South Africa

---

**From:** dorothea zeffertt [<mailto:dot@monkeypuzzle.co.za>]  
**Sent:** 19 February 2012 11:53 AM  
**To:** Victoria Tucker  
**Subject:** FW: BVC - Tharisa Minerals -EIA/EMP Meeting

Hi Victoria,  
I/We are registered with you as I&AP. Can I please be mailed directly with any information? I cannot attend meetings at short notice & delays in forwarding mail are often unavoidable.  
Thank you  
Dorothea Zeffertt  
Mother Goose Prop Inv cc  
Cell: 0798677574

---

**From:** Lorraine [<mailto:PottersReach@mweb.co.za>]  
**Sent:** 15 February 2012 09:00  
**To:** At v R; Chris Wenhold; dorothea zeffertt; Harry & Rita Schubert; Hermien v S; Jan v R; joan v M; Johan Potgieter; Judith Oppler; Lorna Putterill; margie owen-smith; Noel & Viv Pope; Oliver Oppler; Otti Nesor; Richard P; 'Stuart Vaughan'  
**Subject:** BVC - Tharisa Minerals -EIA/EMP Meeting

---

**From:** Victoria Tucker [<mailto:vtucker@slrconsulting.com>]  
**Sent:** 24 January 2012 10:21 AM

**Subject:** Tharisa Minerals - Environmental Impact Assessment and Environmental Management Programme (EIA/EMP) Amendment

Dear Interested and Affected Party

You and/or your organisation have been identified as an interested and/or affected party that may want to be informed about the proposed EIA/EMP amendment for Tharisa Minerals. In this regard, a background information document (BID) is attached to this e-mail.

If you would like to submit comments/questions and you would like these to be considered in the scoping process, please fax or e-mail these to SLR Consulting (Africa) (formerly known as Metago) by 24 February 2012. In addition, a public scoping meeting has been arranged for **Thursday 16 February 2012, at 16h30**, at the Retief Primary School Hall near Marikana.

If you have any questions in this regard please contact the undersigned.

Regards

**Stella Moeketse**  
**Environmental Assessment Practitioner**  
SLR Consulting (Africa) (Pty) Ltd

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

Mobile: +27 72 380 5609

Tel: +27 11 467 0945

Ext: 2010

Fax: +27 11 467 0978

SLR Africa (Block 7)  
Fourways Manor Office Park  
2191, Cnr Roos and Macbeth Streets  
Fourways, Johannesburg  
South Africa, Johannesburg, 2060, South Africa

**Victoria Tucker**  
SLR Consulting (Africa) (Pty) Ltd

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

Mobile: +27 83 533 3576

Tel: +27 11 467 0945

Fax: +27 11 467 0978

SLR Africa (Block 7)  
Fourways Manor Office Park  
2191, Cnr Roos and Macbeth Streets  
Fourways, Johannesburg  
South Africa, Johannesburg, 2060, South Africa



## Stella Moeketse

---

**From:** Victoria Tucker  
**Sent:** 21 February 2012 07:53 AM  
**To:** 'marius.botha@remig.co.za'  
**Cc:** Stella Moeketse  
**Subject:** FW: Tharisa EMP Amendment I: Scoping Presentation  
**Attachments:** Scoping\_Public\_Presentation\_16Feb12.pdf

| Tracking: | Recipient                  | Delivery                       | Read                      |
|-----------|----------------------------|--------------------------------|---------------------------|
|           | 'marius.botha@remig.co.za' |                                |                           |
|           | Stella Moeketse            | Delivered: 2012/02/21 07:53 AM | Read: 2012/02/21 08:30 AM |

Hi Marius,

Attached please find a copy of the presentation as per your request for your review and comments.

Many thanks.

Kind regards

**Stella Moeketse**  
**Environmental Assessment Practitioner**  
SLR Consulting (Africa) (Pty) Ltd

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

Mobile: +27 72 380 5609

Tel: +27 11 467 0945

Ext: 2010

Fax: +27 11 467 0978

SLR Africa (Block 7)  
Fourways Manor Office Park  
2191, Cnr Roos and Macbeth Streets  
Fourways, Johannesburg  
South Africa, Johannesburg, 2060, South Africa

**THARISA MINERALS (PTY) LTD  
EIA/EMP AMENDMENT I**

**FOCUSSED SCOPING MEETING FOR:**

**THE PROPOSED CONSTRUCTION AND OPERATION OF THE SMELTER HOUSE AND  
ASSOCIATED INFRASTRUCTURE, CONSTRUCTION AND OPERATION OF THE CHROME  
SAND DRYING PLANT, STORAGE OF HAZARDOUS SUBSTANCES, CHANGES TO THE  
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- **Time:** 11h00

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SLR Consulting (Africa) (Proprietary) Limited

[www.slrcars.com](http://www.slrcars.com)

Registered Address: Unit 7 Fourways Manor Office Park, 1 Macbeth Avenue, Fourways, 2055  
Postal address: PO Box 1596, Cramerville, 2060, South Africa  
Reg. No.: 1998/005179/07 VAT No.: 4300145887

Fourways Office: Physical address: Unit 7 Fourways Manor Office Park, 1 Macbeth Ave, Fourways / Postal address: P O Box 1596, Cramerville, 2060 / T: +27 11 467 0945 / F: +27 11 467 0978  
Pretoria Office: Physical address: Pentagon House, 669 Plettenberg Road, Faerie Glen, Pretoria / Postal address: P O Box 40161, Faerie Glen, 0043 / T: +27 12 991 8881 / F: +27 12 991 1907  
Durban Office: Physical address: 130 Pharos House, 70 Buckingham Terrace, Westville, Durban / Postal address: P O Box 641, Westville, 3630 / T: +27 31 266 3083 / F: +27 86 600 5186

## Victoria Tucker

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**From:** Stella Moeketse  
**Sent:** 24 February 2012 11:43 AM  
**To:** Victoria Tucker  
**Subject:** FW: Scoping process comments: Tharisa Minerals  
**Attachments:** 20120223 Tharisa Pre-Scoping Comments Rev1.pdf

**Importance:** High

FYI

**Stella Moeketse**  
**Environmental Assessment Practitioner**  
SLR Consulting (Africa) (Pty) Ltd

Email: [smoeketse@slrconsulting.com](mailto:smoeketse@slrconsulting.com)  
Mobile: +27 72 380 5609  
Tel: +27 11 467 0945  
Ext: 2010  
Fax: +27 11 467 0978

SLR Africa (Block 7)  
Fourways Manor Office Park  
2191, Cnr Roos and Macbeth Streets  
Fourways, Johannesburg  
South Africa, Johannesburg, 2060, South Africa

**From:** Elsa Steyn [<mailto:elsa@remig.co.za>]  
**Sent:** 24 February 2012 10:53 AM  
**To:** Stella Moeketse  
**Subject:** Scoping process comments: Tharisa Minerals  
**Importance:** High




Dear Stella

Herewith attached please find our comments to the scoping process currently being conducted as part of the EIA/EMP Programme for the planned Tharisa Mine expansions.

Please do not hesitate to contact me if you have any questions in this regard. I would appreciate it if you could acknowledge receipt of my mail and this document.

Kind regards

**Elsa Steyn**  
Group Legal Advisor  
REMIG Group

 +1 (514) 885 5580 / +27 (11) 083 6686 / +27 (82) 927 7223  
 086 672 6165  
 [elsa@remig.co.za](mailto:elsa@remig.co.za)

## CURRICULUM VITAE

### OF

## MOCHE AMOGELANG OMPHEMETSE GLADNESS

### PERSONAL DETAILS

SURNAME : MOCHE  
FIRST NAMES : AMOGELANG OMPHEMETSE GLADNESS  
DATE OF BIRTH : 20 JULY 1983  
IDENTITY NUMBER : 8307200480086  
POSTAL ADDRESS : PO BOX 1858  
RUSTENBURG  
0300  
EMAIL ADDRESS : [omphemetsem@gmail.com](mailto:omphemetsem@gmail.com)  
CONTACT NUMBER : 076 376 4421/078 674 7565  
GENDER : FEMALE  
NATIONALITY : SOUTH AFRICAN  
HOME LANGUAGE : SETSWANA  
OTHER LANGUAGES : ENGLISH, AFRIKAANS & NORTH SOTHO  
HEALTH STATUS : EXCELLENT  
MARITAL STATUS : SINGLE  
DEPENDANTS : 01  
HOBBIES : READING, PLAYING AND COACHING

### EDUCATIONAL QUALIFICATION

HIGHEST GRADE PASSED : GRADE 12  
SUBJECTS PASSED : ENGLISH, AFRIKAANS, SETSWANA,  
SUBJECTS PASSED : ECONOMICS, GEOGRAPHY, MATHEMATICS, PHYSICAL SCIENCE

### **TERTIARY EDUCATION**

NAME OF INSTITUTION : VARSITY COLLEGE

MODULE : COMPUTER LITERACY

YEAR : 2005

NAME OF INSTITUTION : ROSEBANK COLLEGE

COURSE : BOOKKEEPING CERTIFICATE

YEAR : 2006

NAME OF INSTITUTION : BAKUBUNG BUSH LODGE

COURSE : FIRST AID LEVEL ONE

YEAR : 2009

NAME OF INSTITUTION : NOSA

COURSE : ASHEPP CERTIFICATE

YEAR : 2009-06-10

NAME OF INSTITUTION : NOSA

COURSE : INTRO TO SAMTRAC CERTIFICATE

YEAR : 2009-14-10

NAME OF INSTITUTION : NOSA

COURSE : SAMTRAC CERTIFICATE

YEAR : 2009-11-12

### **EMPLOYMENT HISTORY**

COMPANY : GAME STORE

OCCUPATION : CASHIER

YEAR : 2007-06-19 UNTIL 2008-07-31

COMPANY : BAKUBUNG BUSH LODGE

JOB TITLE : LEARNERSHIP IN HOSPITALITY RECEPTION



CERTIFICATE : NATIONAL CERTIFICATE LEVEL 4  
SYSTEM USED : OPERA  
WORK DONE : SWITCHBOARD,INDIVIDUAL RESERVATION,  
CHECK IN & OUT,PIT & KEY CHECK,CREDIT LIMIT,  
RATE CHECK, & NATIONALITY CHECK.  
COMPANY : KWA-MARITANE BUSH LODGE  
OCCUPATION : RECEPTIONIST AND SAFETY REP.  
YEAR : 2010-06-07 UNTIL TO DATE

**REFERENCES**

GAME STORE : ELLAH NKOSI (FRONT LINE HEAD SUPERVISOR)  
CONTACT DETAILS : (014) 597-2292  
BAKUBUNG BUSH LODGE : DINOKO RAYMOND (FRONT OFFICE ASSISTANT MANAGER)  
CONTACT DETAILS : (014) 552-6001  
KWA-MARITANE BUSH LODGE : CINDY MARTINS (FRONT OFFICE MANAGER)  
CONTACT DETAILS : (014) 552-5115

**THARISA MINERALS (PTY) LTD**  
**ENVIRONMENTAL IMPACT ASSESSMENT AND ENVIRONMENTAL MANAGEMENT**  
**PROGRAMME (EIA/EMP) AMENDMENT**

January 2012

|  |   |
|--|---|
| DATE <b>08/02/2012</b>   | TIME <b>12:00</b>                               |
| PARTICULARS OF THE INTERESTED AND AFFECTED PARTY                   |   |
| NAME <b>Buys Kruger</b>  |   |
| POSTAL ADDRESS <b>P.O. Box 21937 PRETORIA</b><br><b>RUSTENBURG</b> |   |
| STREET ADDRESS <b>93 KROKODR RING</b><br><b>RUSTENBURG</b>         |   |
| POSTAL CODE <b>0305</b>  |   |
| WORK/DAY   |   |
| TELEPHONE NUMBER   | POSTAL CODE <b>0299</b>                         |
| CELL PHONE NUMBER <b>082 8088 360</b>                              | WORK/DAY  |
|  | FAX NUMBER                                      |
|  | E-MAIL ADDRESS <b>buys.kruger@tharisa.co.za</b> |

**PLEASE IDENTIFY YOUR INTEREST IN THE PROPOSED PROJECT**  
*Independent consultant in Rustenburg working for the platinum industry*

**PLEASE WRITE YOUR COMMENTS AND QUESTIONS HERE**  
*The smelter house description mentioned both alloy granulation and crushing - which one of the two processes will be used?*  
*What SO<sub>2</sub> and dust/particulate air pollution abatement equipment will be installed on the conveyors and smelter/furnace?*  
*What public road re-routing will be required?*  
*Will there be any minor element impurities in the waste acid?*  
*Will the leach circuits produce any jarosite products?*

**Please return completed forms to:**

Stella Moeketsa  
 SLR  
 Fax: (011) 457-0978  
 Tel: (011) 457-0978  
 E-mail: [smoeketsa@slrconsulting.com](mailto:smoeketsa@slrconsulting.com)

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PROGRAMME (EIA/EMP) AMENDMENT**

January 2012

|   |                         |                |                    |
|---|-------------------------|----------------|--------------------|
| DATE  | 08/02/2012              | TIME           |                    |
| <b>PARTICULARS OF THE INTERESTED AND AFFECTED PARTY</b> |                         |                |                    |
| NAME  | T Le Roux               |                |                    |
| POSTAL ADDRESS  | Box 4850<br>Marikana    |                |                    |
|   | POSTAL CODE             | 0284           |                    |
| STREET ADDRESS  | Plot 7A<br>Buffelspoort |                |                    |
|   | POSTAL CODE             |                |                    |
| WORK/ DAY   | WORK/ DAY               |                |                    |
| TELEPHONE NUMBER  | FAX NUMBER              |                |                    |
| CELL PHONE NUMBER                                       | 0835796866              | E-MAIL ADDRESS | Hettie.l@gwisa.com |

|   |
|---|
| <b>PLEASE IDENTIFY YOUR INTEREST IN THE PROPOSED PROJECT</b>  |
| Residential property next to mine   |
| <b>PLEASE WRITE YOUR COMMENTS AND QUESTIONS HERE</b>  |
| Tharisa minerals have failed to address the problems created since 2008 , how do they intend to<br>Address the new problem that will arise with the increase of activities that will most definitely create<br>Problems like noise, air pollution and ground water contamination and drainage |
| Previous problems not yet addressed   |
| 1) Pumping at mine completely drain boreholes   |
| 2) Dust, noise and damage to property created with blasting   |
| 3) Overpopulation on mine residential property results in extensive use of farm road not able to<br>The traffic and promise from mine management to close said site never happened but occupiers and<br>Vehicles just increased creating a dust and safety risk                               |
| 4) Technology in the area affected by mine surrounding wall , seriously affecting our income and<br>Interest by mine officials (has been going on for months )  |
| 5) Overall effect of above problems on life quality   |
| 6) Proposed regular meetings to be held with stakeholders never materialised  |

|  |
|--|
| Please return completed forms to:  |
| Stefa Moeketse SLR<br>Fax: (011) 467-0978 Tel: (011) 467-0978 E-mail:<br>smoeketse@slrconsulting.com |

**THARISA MINERALS (PTY) LTD  
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PROGRAMME (EIA/EMP) AMENDMENT**

January 2012

|   |  |  |  |
|---|--|--|--|
| DATE <u>07 Feb 2012</u>                                 |  | TIME   |  |
| <b>PARTICULARS OF THE INTERESTED AND AFFECTED PARTY</b> |  |  |  |
| NAME <u>Jon Coetzee</u>                                 |  |  |  |
| POSTAL ADDRESS <u>Rustenburg 146</u>                    |  |  |  |
| <u>Mossieburg</u>                                       |  |  |  |
| STREET ADDRESS <u>Elandsdal 157 E25 / E32</u>           |  |  |  |
| <u>Mossieburg</u>                                       |  |  |  |
| WORK/DAY  |  | POSTAL CODE <u>0305</u>                        |  |
| TELEPHONE NUMBER <u>0827644994</u>                      |  | WORK/DAY                                       |  |
| CELL PHONE NUMBER <u>0827644994</u>                     |  | FAX NUMBER <u>0865329226</u>                   |  |
|   |  | E-MAIL ADDRESS <u>jonc@slrconsulting.co.za</u> |  |

**PLEASE IDENTIFY YOUR INTEREST IN THE PROPOSED PROJECT**

I own land on both sides of the N4

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**PLEASE WRITE YOUR COMMENTS AND QUESTIONS HERE**

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**Please return completed forms to:**

**Stella Moeketse**  
SLR  
Fax: (011) 467-0978  
Tel: (011) 467-0978  
E-mail: [smoeketse@slrconsulting.com](mailto:smoeketse@slrconsulting.com)

THARISA MINERALS (PTY) LTD

TLHABOLOLO YA TSHEKATSEKO YA GO AMEGA GA TIKOLOGO LE LENANELO LA TSAMAISO  
YA TIKOLOGO (EIA/EMP)

Ferikgong 2012

|                                    |                                      |
|------------------------------------|--------------------------------------|
| LETLHA 16 02 2011                  | NAKO 04:30 PM                        |
| DINTLHA TSA BAKGATLHEGI LE BAAMEGI |                                      |
| LEINA JACKSON PHIRI                |                                      |
| ATERESE YA POSO                    | PO BOX 688<br>MARIKANA               |
| ATERESE YA MMILA                   | Plot F-7<br>MARIKANA<br>THARISA AREA |
| NOMORE YA MOGALA<br>WA TIRO/LEGAE  | KHOUTU YA POSO 0284<br>MARIKANA      |
| NOMORE YA<br>SELEFOUNU 073388482   | NOMORE YA FEKESE YA<br>TIRO/LEGAE    |
|                                    | ATERESE YA E-MAIL                    |

TSWEETSWEWE SUPA KGATLHEGEO YA GAGO MO POROJEKENG E E TSHIKINNGWANG  
THE PROJECT WILL BRING SUCCESS TO THE PEOPLE  
OF MADIILHOKWA, UNFORTUNATELY, NOT ALL OF US.  
TSWEETSWEWE KWALA DITSHWAELO TSA GAGO LE DIPOTSO FA  
WHERE IS THE LAND AND GOOD HOUSES YOU PROMISED  
THE PEOPLE?  
WHERE IS MY STOLEN TRANSFORMER?  
WHERE IS THE JOB FOR EVERYONE?  
MY 2 SONS ARE NOT WORKING TODAY, BUT THEY SENT  
6 CUS EACH, EMPLOYMENT IS BIASED TO THE OFFICE  
OF THE COUNCILLOR, OFFICE WARD 32.  
I AM STAYING NEAR THE RIVER, THE BRIDGE WAS DAMA  
GED BY WATER, THARISA NEGLECTS THE PROBLEM.  
THE SMALL FOOT ROAD TO THE SCHOOL WAS CLOSED BY  
THARISA, TODAY MY CHILDREN ARE SUFFERING GOING TO  
SCHOOL. THERE IS NO DEMOCRACY NEAR THARISA.  
THEY EMPLOYED BLACK PEOPLE TO ASSIST US, BUT THEY  
NEGLECT OUR CRISIS. NOW I DONT KNOW WHERE  
TO GO BECAUSE THEY USE THEIR POWERS AGAINST  
US, AND THEIR LAWYERS ARE HAZARDOUS TO THE  
LIVES OF US, BUT NOTHING NEVER ENDS.

Tsweetswee busetsa diforomo tse di tladitsweng go:

Stella Moeketse

SLR

Fekese: (011) 467-0978

Telefounu: (011) 467-0978

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

**THARISA MINERALS (PTY) LTD**  
**ENVIRONMENTAL IMPACT ASSESSMENT AND ENVIRONMENTAL MANAGEMENT**  
**PROGRAMME (EIA/EMP) AMENDMENT**

January 2012

|  |                |
|--|----------------|
| DATE 16/03/12                                      | TIME 16.30     |
| PARTICULARS OF THE INTERESTED AND AFFECTED PARTY   |                |
| NAME JOSEPH NCASHOHO                               |                |
| POSTAL ADDRESS BOX 159 TLAPA MARIKANA              |                |
| STREET ADDRESS E27 MAIORENG SECTION TLAPA MARIKANA |                |
| POSTAL CODE 0287                                   |                |
| WORK/DAY   |                |
| TELEPHONE NUMBER                                   | FAX NUMBER     |
| CELL PHONE NUMBER 0714420488                       | E-MAIL ADDRESS |

PLEASE IDENTIFY YOUR INTEREST IN THE PROPOSED PROJECT AS BOTH A REG. CONSTRUCTOR (Reg. 2010/65576/23) AND LABOUR AGENT

PLEASE WRITE YOUR COMMENTS AND QUESTIONS HERE

INVOLVED IN DEVELOPMENT AND EMPOWERMENT OF THE AFFECTED COMMUNITIES (KATERSKRAAL 342JD) BE PART OF THE PROJECT BOTH IN WORKING AND INPUT CONTRIBUTION. SLR WILL HAVE AN IMPROVED WAY OF CONSTRUCTING THE TAILING DAMS (AIR POLLUTION LIMITATION)

Consider Tharisa as a provider & promoter of cooperate social investment to affected communities through safe & healthy working environment.

Informed about the next meeting date?

Please return completed forms to:

Stella Moeketsé  
 SLR  
 Fax: (011) 467-0978  
 Tel: (011) 467-0978  
 E-mail: [smoekets@slrconsulting.com](mailto:smoekets@slrconsulting.com)

**THARISA MINERALS (PTY) LTD**  
**ENVIRONMENTAL IMPACT ASSESSMENT AND ENVIRONMENTAL MANAGEMENT**  
**PROGRAMME (EIA/EMP) AMENDMENT**

January 2012

|   |                                   |
|---|-----------------------------------|
| DATE 17-02-2012.  | TIME 10:45                        |
| <b>PARTICULARS OF THE INTERESTED AND AFFECTED PARTY</b> |                                   |
| NAME WAT Vester   |                                   |
| POSTAL ADDRESS P.O. Box 13<br>Mogalese                  |                                   |
| STREET ADDRESS farm 234 TG 242<br>Mogalese              |                                   |
| WORK/DAY  | POSTAL CODE 0286                  |
| TELEPHONE NUMBER 071083 1156                            | WORK/DAY                          |
| CELL PHONE NUMBER 079 404 8474                          | FAX NUMBER 086 685 5889           |
|   | E-MAIL ADDRESS vesterwillcm@gmail |

**PLEASE IDENTIFY YOUR INTEREST IN THE PROPOSED PROJECT**  
 Farms that are being relocated.

**PLEASE WRITE YOUR COMMENTS AND QUESTIONS HERE**

we are the owners of the following farms  
 TG 242  
 234, 235, 145.

We would greatly appreciate a meeting  
 with the person in charge of buying  
 farms in this area.

It is becoming a problem with mining  
 personnel. Crime escalation in the area  
 Damage to property due to blasting.

Thank you.  
 MR WAT Vester  
 079 404 8474.

**Please return completed forms to:**

Stella Moeketse  
 SLR  
 Fax: (011) 467-0978  
 Tel: (011) 467-0978  
 E-mail: [smoeketse@slrconsulting.com](mailto:smoeketse@slrconsulting.com)

THARISA MINERALS (PTY) LTD  
ENVIRONMENTAL IMPACT ASSESSMENT AND ENVIRONMENTAL MANAGEMENT  
PROGRAMME (EIA/EMP) AMENDMENT

January 2012

|  |   |                |       |
|--|---|----------------|-------|
| DATE   | 2012-02-20  | TIME           | 10h00 |
| PARTICULARS OF THE INTERESTED AND AFFECTED PARTY |   |                |       |
| NAME   | Keitumetse Monica Moleba as guardian and Mother of Dean Dawn Moleba   |                |       |
| POSTAL ADDRESS                                   | P.O. Box 4734<br>Marikana   |                |       |
|  | POSTAL CODE   | 1286           |       |
| STREET ADDRESS                                   | Portion 233 (a portion of Portion 146) of the farm<br>Katteskraal 342 |                |       |
|  | POSTAL CODE   |                |       |
| WORK/DAY   |   | WORK/DAY       |       |
| TELEPHONE NUMBER                                 | 072-973-9433  | FAX NUMBER     | N.g.  |
| CELL PHONE NUMBER                                | 072-973-9433  | E-MAIL ADDRESS | N.g.  |

PLEASE IDENTIFY YOUR INTEREST IN THE PROPOSED PROJECT

Dean Dawn Moleba is the registered owner of the above property

PLEASE WRITE YOUR COMMENTS AND QUESTIONS HERE

The said Keitumetse Monica Moleba as guardian and mother of the minor child Dean Dawn Moleba has no objection to Tharisa Minerals' proposed developments on Portion 342 Katteskraal, 297 Edenburg and 467 Landskoff

Please return completed forms to:

Stella Moeketsa  
SLR  
Fax: (011) 467-0978  
Tel: (011) 467-0978  
E-mail: [smoeketsa@slrconsulting.com](mailto:smoeketsa@slrconsulting.com)



**THARISA MINERALS (PTY) LTD**  
**ENVIRONMENTAL IMPACT ASSESSMENT AND ENVIRONMENTAL MANAGEMENT**  
**PROGRAMME (EIA/EMP) AMENDMENT**

January 2012

|   |  |
|---|--|
| DATE <b>22-2-2012</b>                             | TIME <b>12-00 H</b>                    |
| PARTICULARS OF THE INTERESTED AND AFFECTED PARTY  |  |
| NAME <b>A. BOTHA</b>                              |  |
| POSTAL ADDRESS <b>Box 680</b><br><b>WILDFRUIT</b> |  |
| STREET ADDRESS <b>00</b>                          |  |
| POSTAL CODE <b>0284</b>                           |  |
| WORK/DAY  | POSTAL CODE                            |
| TELEPHONE NUMBER <b>OK. 5723355</b>               | WORK/DAY                               |
| CELL PHONE NUMBER <b>083 656 7527</b>             | FAX NUMBER                             |
|   | E-MAIL ADDRESS <b>adthebotha@co.za</b> |

**PLEASE IDENTIFY YOUR INTEREST IN THE PROPOSED PROJECT**

**MY FREEDOM GED. 149 ROOIKOPPIES 297 JO GROOT 164 HA  
 LE AANGRESEND VAN THARISA MYN ASOK STEAKSTROOM RIJZER**

**PLEASE WRITE YOUR COMMENTS AND QUESTIONS HERE**

- ① **VIR DIE REKORD: EK HET PER KONTRAK EERSTE REÏO WETENDES  
 VAN ALLE ELEKTRISITEIT WAT NIE VIR MYN BOU DEUR THARISA  
 GEBRUIK WORD NIE**
- ② **HOE GAAN THARISA BESOEDELING VAN STEAKSTROOM RIJZER  
 VOORKOM EN BEHEER MET HERWYSING NA NUWE BEHOEDES PROJEK?**
- ③ **EK VERWAS IN SKADTELIKKE ONDERNEMING VAN THARISA  
 DAT VOORGESTELDE SMELTER EN, NIE VAN OF IN DIE TOEKOMIS  
 NADELIG SAL WEES VIR DIE ONTWIKKELING VAN MYN PLAS  
 AS DORPSGEBIED (WONSGEBIED) NIE EN DAT THARISA  
 GOED KEKKEER SEE VIR SODANIGE ONTWIKKELING. ONDANKS  
 ENIGE TOEKOMSTIGE WETSEWING MET LUG BESOEDELING.**
- ④ **EK HERWYS NA VERSADERING WRAK EK KONNEN SE  
 VOORBEHOUD OOR ALSA SE ONTWIKKELING AS VOORBEELD VAN  
 KOÖPERATIEWE ONDERAANTWORDELIKHED UITSELS HET**

**Please return completed forms to:**

**Stella Moeketsa**  
**SLR**  
**Fax: (011) 467-0978**  
**Tel: (011) 467-0978**  
**E-mail: [smoeketsa@slrconsulting.com](mailto:smoeketsa@slrconsulting.com)**

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**THARISA MINERALS (PTY) LTD  
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PROGRAMME (EIA/EMP) AMENDMENT**

February 2012

|   |                                    |                            |  |
|---|------------------------------------|----------------------------|--|
| <b>DATE</b>   | 23/02/2012                         | <b>TIME</b>                | 09:00  |
| <b>PARTICULARS OF INTERESTED AND AFFECTED PARTY</b> |                                    |                            |  |
| <b>NAME</b>   | Living Waters Properties (Pty) Ltd | Elsa Steyn / Chris Bosch   |  |
| <b>POSTAL ADDRESS</b>                               | PO Box 73130<br>Lynnwood Ridge     | <b>POSTAL CODE</b>         | 0040   |
| <b>STREET ADDRESS</b>                               | 99 Fascia Street<br>Silvertondale  | <b>POSTAL CODE</b>         | 0184   |
| <b>WORK/DAY TELEPHONE NUMBER</b>                    | (012) 804 7815                     | <b>WORK/DAY FAX NUMBER</b> | (012) 804 8953   |
| <b>CELLPHONE NUMBER</b>                             | 082 927 7223<br>082 442 7432       | <b>E-MAIL ADDRESS</b>      | <a href="mailto:elsa@remig.co.za">elsa@remig.co.za</a><br><a href="mailto:chris@remig.co.za">chris@remig.co.za</a> |

**PLEASE IDENTIFY YOUR INTEREST IN THE PROPOSED PROJECT**

We are busy with a property development in the immediate proximity of Tharisa Mine.

**PLEASE WRITE YOUR COMMENTS AND QUESTIONS HERE**

**1. The Smelter House:**

**1.1** At the informal community meeting the size of the proposed smelter house was downplayed; yet the EIA/EMP Programme Document proposes a smelter house with a footprint of 200m x 200m. This means that the community is being misinformed.

**1.2** At the general public meeting of 16 February 2012 the footprint comparison stated that the Tharisa Smelter would be 200m x 250m – why is this different from the footprint as designated in the EIA/EMP Programme Document?

**1.3** The fact that the Smelter Plant will be operated 24 hours per day is of concern. There already is great unhappiness in the community due to the fact that there is a lot of noise at night due to mine trucks being operated (reverse hooters), stones being crushed, other mechanical noise emanating from the mine, as well as the bright lights that are shining through bedroom windows. All of these are preventing the community from sleeping properly and they go to work tired the next day. This will be exacerbated by the proposed smelter plant being operated 24 hours per day. The current blasting at the mine contributes to the noise factor, but even more serious is the fact that it creates a safety risk to community members due to rocks that are thrown 700m from the mine. At present Tharisa fails to adhere to its undertaking not to use the school road for the trucks to commute; it still does this and this endangers the lives of innocent school children. The smelter plant and higher number of trucks will increase the risks safety risks.

**2. The Chrome Sand Drying Plant**

**2.1** The fact that the Chrome Sand Drying Plant will be operated 24 hours per day is of concern.

There already is great unhappiness in the community due to the fact that there is a lot of noise at night due to mine trucks being operated, stones being crushed, other mechanical noise emanating from the mine, as well as the bright lights that are shining through bedroom windows. All of these are preventing the community from sleeping properly and they go to work tired the next day. This will be exacerbated by the proposed smelter plant being operated 24 hours per day.

### **3. Change of the General Infrastructure Layout**

3.1 It is curious that one of the alternatives being considered includes the "no project" option when one bears in mind that Tharisa has by its own admission already commenced effecting the 'proposed' changes, eg the designs and sizings of the tailings facility storages and the location of the topsoil berm wall.

### **4. Employment & Relocation**

4.1 Movement by unknown people in the area has already increased drastically. This poses a security risk. Crime has already escalated since the inception of the mine.

4.2 While the mine may be creating new employment opportunities, it is also causing great inconvenience to the employees of the community who now have to find alternative, and often unsafe, travel routes.

4.3 The current new Mining settlement has affected the small business owners negatively. The sewerage system was installed too shallow, resulting in faeces rising to surface when it rains. Increased activities at the mine will result in more people and cause a higher risk to human health. It is important to note that the current borehole used by the community is located in the middle of the toilets.

### **5. Status of the Existing Environment**

Much is made of the fact that the area has already been disturbed by *inter alia* mining – as if that in itself provides a justification for further disturbance.

#### **5.1 Groundwater**

5.1.1 The groundwater is currently being polluted by the mine, as is evident from the fact that the borehole water of the surrounding community is turning milky. Further expansion of the mine will only exacerbate this problem.

5.1.2 In some instances the level of water in boreholes has even risen and caused pumps to cease. Blasting has furthermore caused boreholes to collapse.

#### **5.2 Noise**

5.2.1 Noise is currently already at an unacceptable level, with mining operations keeping the surrounding community awake at night, as previously mentioned. Further expansion of the mine will only exacerbate this problem.

5.2.2 Unrealistic associations are made between sources of noise in the EIA/EMP Programme Document: there is no comparison to be made between the noise created by mining activities and that of tractors or even traffic.

#### **5.3 Air**

5.3.1 Levels of dust generated by mining activities are already at unacceptable levels and are a great inconvenience to the surrounding community and a potential health risk. Further expansion of the mine in general, and the proposed chrome sand drying plant in particular, will only exacerbate the problem.

5.3.2 As with noise, unrealistic associations are made between the mine and other sources of dust.

5.3.3 An increase in vehicle and smelting plant emissions (CrVI) is carcinogenic, which is highly problematic especially for the community settlements neighbouring the plant.

#### **5.4 Visual**

5.4.1 This is one of the biggest sources of concern to Living Waters Properties, as our property

development's view is significantly encumbered by the mine. A further expansion of the mine only serves to exacerbate the problem. Given that the property development predates the mine, it is a legitimate and serious concern.

**6. General Points of Concern**

6.1 The reckless driving of mine trucks on the dirt roads is already problematic. An expansion would mean more trucks, and thus a greater problem.

6.2 Mine detonations are causing glasses to fall from the shelves and the houses of the surrounding community to crack. Intensifying the mining conducted at Tharisa will increase the problem.

6.3 Nowhere in the EIA/EMP Programme Document is it mentioned that the intention is to increase the life of the mine from 12-18 years – this was disclosed for the first time at the meeting of 16 February 2012. This is a further significant impact on the community that will increase the devaluation of their properties.

6.4 The promised Focussed Stakeholder Meeting still has not taken place and there is no indication when or that it will. Thus SLR is closing the scoping process for comments without taking into account the comments of the true stakeholders in the proposed expansion. This makes a mockery of the scoping phase.

**7. Conclusion**

7.1 The buffer area surrounding Tharisa Mine is already too narrow and should be increased so that the surrounding community is not exposed to the mining activities. Instead, Tharisa is seeking to expand its operations, thus further narrowing this buffer area. This is not acceptable.

Please return completed forms to:

Stella Moeketse

SLR

Fax (011) 467-0978

Tel (011) 467-0978

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

TOLA AREA 7 March

**THARISA MINERALS (PTY) LTD**  
**ENVIRONMENTAL IMPACT ASSESSMENT AND ENVIRONMENTAL MANAGEMENT**  
**PROGRAMME (EIA/EMP) AMENDMENT**

January 2012

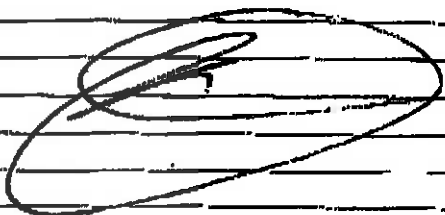
|  |                                 |                     |                       |
|--|---------------------------------|---------------------|-----------------------|
| DATE   | 07 / 02 / 2012                  | TIME                | 09:55                 |
| PARTICULARS OF THE INTERESTED AND AFFECTED PARTY |                                 |                     |                       |
| NAME   | H.G. PERTERSE                   |                     |                       |
| POSTAL ADDRESS                                   | PO BOX 4618<br>MARIKANA<br>0284 |                     |                       |
| STREET ADDRESS                                   | 0284                            | POSTAL CODE         | 0284                  |
|  | PILOT 17                        |                     | (175 of 141 46 342)   |
|  | MARIKANA - WEST                 |                     |                       |
| WORK/DAY TELEPHONE NUMBER                        | 014-5340438                     | WORK/DAY FAX NUMBER | 014-5956199           |
| CELL PHONE NUMBER                                | 0829562892                      | E-MAIL ADDRESS      | hperterse@emweb.co.za |

PLEASE IDENTIFY YOUR INTEREST IN THE PROPOSED PROJECT

PROPERTY PART OF PROPOSED MINING AREA.

PLEASE WRITE YOUR COMMENTS AND QUESTIONS HERE

How will the mining activity influence us?  
WHAT IS THE SHORT TERM AND LONG TERM EFFECT ON US?



Please return completed forms to:

Stella Moakete  
SLR  
Fax: (011) 467-0978  
Tel: (011) 467-0978  
E-mail: [smoakete@slrconsulting.com](mailto:smoakete@slrconsulting.com)



Reg. No.:  
1996/013906/07

8 March 2012

**MS STELLA MOEKETSE**  
SLR Consulting (Africa) (Pty) Ltd

BY EMAIL: [smoeketse@slrconsulting.com](mailto:smoeketse@slrconsulting.com)

Dear Madam

**COMMISSIONING OF SOCIAL IMPACT ASSESSMENT: THARISA MINE**

**DMR REF NO: NW 30/5/1/2/3/2/1/358**  
**DEDECT REF NO: NWP/EIA/50/2011**  
**DEA REF NO: 12/9/11/L675/**

With reference to the above project, herewith kindly be notified that we have commissioned an independent Social Impact Assessment to determine the impact of the Tharisa Mine on the neighbouring properties and owners, Buffelspoort, North West Province.

We furthermore trust that you will afford us a reasonable period of 3 months during which to conduct the aforesaid study, in view of the fact that we as a community have not been involved in the Mine's studies conducted to date, allegedly due to the Mine's inability to identify us as interested and affected parties.

The experience of the team contracted by us in the field is as follows:

**MEMBER 1**

**2000 to date: independent Development Consultant**

- **SIA for the proposed Western Bushveld Joint Venture Project, North West Province (Lead Consultant: QESolutions) (2011 and ongoing)**

99 Fancie Street, Silverdale, Pretoria, South Africa, 0184 | PO Box 73130, Lynnwood Ridge, South Africa, 0040  
Telephone: +27 (0) 861 878 725 | Facsimile: +27 (0) 12 804 8953

**DIRECTORS: C.F. Bosch (Managing); L. Bosch**

**P.M. Beeser (Company Secretary)**

- **Public Participation Process for the proposed Western Bushveld Joint Venture Project, North West Province (Lead Consultant: QESolutions) (2011 and ongoing)**
- **SIA for the proposed Aggeneis-Oranjemond Transmission Line project, Northern Cape Province (Lead Consultant: Savannah Environmental) (2010 and ongoing)**
- **SIA as part of the Basic Assessment Process for the Exxaro Photovoltaic Facility, Lephale, Limpopo Province (2011 and ongoing)**
- **SIA for the Uptington Solar Energy Facility, Northern Cape Province (Lead Consultant: Savannah Environmental) (2010 and ongoing)**
- **SIA for the Kleinbegin Solar Energy Facility, Northern Cape Province (Lead Consultant: Savannah Environmental) (2010 and ongoing)**
- **SIA for the proposed Ilanga solar thermal power plant facility on a site near Uptington, Northern Cape Province (Lead Consultant: Savannah Environmental) (2010 - 2011)**
- **SIA and public participation for the proposed Karoo Renewable Energy Facility, Northern Cape Province (Lead Consultant: Savannah Environmental) (2010 -2011)**
- **SIA for the Wag'nblekiespan Solar Energy Facility, Northern Cape Province (Lead Consultant: Savannah Environmental) (2010 and ongoing)**
- **SIA for the proposed Kathu and Sishen Solar Energy Facilities, Northern Cape Province (Lead Consultant: Savannah Environmental) (2010)**
- **Public Participation and SIA for the proposed Thupela Waterberg Photovoltaic Plant, Limpopo Province (2010) (Lead Consultant: Savannah Environmental)**
- **SIA for the proposed Mitchells Plain-Firgrove-Stikland Transmission Line, Western Cape (2010 - 2011) (Lead Consultant: BKS)**
- **SIA for the proposed Ariadne-Venus Transmission Line, KwaZulu Natal (2010 and ongoing) (Lead Consultant: Baagi Environmental)**
- **Socio-Anthropological Study for the proposed Booyendal Mine, Steelpoort area, Mpumalanga (2010) (Client: Northam Platinum)**
- **SIA for the proposed Dominion Reefs Power Line project, North West Province (2010) (Lead Consultant: Envirovolution)**
- **SIA for the proposed Kannikwa Vlaakte Wind Farm Project, Northern Cape (2009) (Lead Consultant: BKS/Galago Environmental)**
- **SIA for the proposed extension of the Wemmershoek Wastewater Treatment Works (WWTW), decommissioning of the Franschhoek WWTW and construction of a transfer and outfall sewer between the two works, Franschhoek, Western Cape (2009) (Lead Consultant: BKS)**
- **Public Participation process as part of the EIA for the proposed new Ferrochrome Smelter near Brits in the North West Province (2009 and ongoing) (Lead Consultant: MasterQ)**

**Research and Quanto Environmental Solutions)**

- **SIA for the proposed Lefaragathle, Mogono, Rasimone, Chaneng outfall sewer and Chaneng sewer treatment plant, Rustenburg (Phokeng), North West Province (2009) (Lead Consultant: Naledzi Environmental)**
- **SIA for the proposed Vlakfontein Residential Development, Brakpan, Gauteng (2009) (Lead Consultant: Enviroolution)**
- **SIA for the proposed Dorstfontein Mine Western Expansion Project, Kriel, Mpumalanga (2008 -2009) (Lead Consultant: Afrosearch)**
- **SIA for the proposed upgrading of railway stations and railway line in Mamelodi, Gauteng (2008) (Lead Consultant: BKS)**
- **SIA for the proposed Kyalami Strengthening Project, Kyalami, Gauteng (2008 -2009) (Lead Consultant: Savannah Environmental)**
- **SIA for the proposed ACSA Remote Aprons Project, O.R. Tambo International Airport, Gauteng (2008) (Lead Consultant: Africon)**
- **SIA for the proposed Cullinan Estate Development, Cullinan, Gauteng (2008) (Lead Consultant: Eko-Info)**
- **SIA for the proposed Apollo Lepini 400 kV Transmission Line Project, Tembisa, Gauteng (2008 - 2009) (Lead Consultant: Enviroolution)**
- **SIA for the proposed Grootboom Platinum Mine, Steelpoort, Limpopo Province (2008) (Lead Consultant: Afrosearch)**
- **SIA for the proposed Dorstfontein Mine Expansion Project, Kriel, Mpumalanga (2008) (Lead Consultant: Afrosearch)**
- **SIA for the proposed Postmasburg Sishen Rail Link, Postmasburg, Northern Cape (2007) (Lead Consultant: Afrosearch)**
- **Public participation assistance for the proposed Eskom Johannesburg East Strengthening Project, Kempton Park, Gauteng. (2008) (Lead Consultant: BKS)**
- **SIA for the proposed new Soweto Integration Project (Etna to Orlando Substation) (2008 and ongoing) (Lead Consultant: Naledzi Environmental)**
- **Proposed Conroast Platinum Smelter, Rustenburg, North West Province: Public Participation assistance (2008) (Lead Consultant: Perlsseuo Consulting CC)**
- **SIA for the proposed township development/eco-estate on the farm Grants Valley, Eastern Cape (2007) (Lead Consultant: Afrosearch)**
- **SIA for the proposed new 400 kV Transmission Line between Glockner Substation (near Rothdene) to the Etna Substation (near Ennerdale) (2007) (Lead Consultant: Naledzi Environmental)**



- **Public participation assistance for the proposed construction of a brewery and associated industrial activities for Heineken Supply Co (Pty) Ltd, Kempton Park, Gauteng. (2007) (Lead Consultant: BKS)**
- **SIA for the existing Buffelsfontein Mine, Stilfontein, North West Province (2007) ((Lead Consultant: Afrosearch)**
- **SIA for the proposed Thaba Lesodi Golf and Game Estate, Mabatlane, Limpopo Province (2007) (Lead Consultant: Afrosearch)**
- **Mooi-Mngeni Transfer Scheme Phase 2: Spring Grove Dam and Appurtenant Works: Social research as part of SIA (2007) (Lead consultant: Dr. K.U. Brügge / BKS)**
- **Proposed Township Development on the Farm Klipfontein 268-JR, Soshanguve Ext 9, Gauteng: SIA (2007) (Lead consultant: Eko-Info)**
- **Public Participation assistance: Proposed Wesizwe Platinum Mine: Application for mining rights, North West Province (2007) (Lead Consultant: Perisseus Consulting CC)**
- **Public Participation for various exemption studies for proposed residential developments in the Gauteng area (Raslouw A.H., Rayton, Rooihuiskraal) (2006) (Lead consultant: Eko-Info)**
- **Social training for the Bekkersdal Farmer Support Programme (2006) (Lead consultant: Index)**
- **Public Participation for the Gautrain variant alignments in the Centurion area as proposed by the Bombela Consortium (2005 – 2006) (Lead consultant: Felehetsa Environmental)**
- **Public Participation for the upgrading of the Menlyn Road Network (2005 - 2006) (Lead consultant: Mawatsan)**
- **Public Participation for the New Multi-Products Pipeline project for Petronet: Jameson Park-Langaagte section (2005 - 2006) (Lead consultant: Bohlweki-Sivest Joint Venture)**
- **Public Participation for exemption from an Environmental Impact Assessment for the proposed Township Development on Portion 49 of The Farm Rookopjes 483 JR, Rayton (2005)**
- **Public Participation for exemption from an Environmental Impact Assessment for the proposed Residential Development on the remainder of a Portion of Portion 1 Of The Farm Brakfontein 399 JR (2005-2006)**
- **Public Participation for the proposed new coal-fired power station in the Lephalale area, Limpopo Province (2005-2006) (Lead Consultant: Bohlweki Environmental)**
- **Public Participation for the proposed Open Cycle Gas Turbine (OCGT) plant and associated transmission lines and substation at Atlantis, Western Cape Province (2005) (Lead Consultant: Bohlweki Environmental)**
- **Public Participation for the proposed residential and commercial development of the**

- Isidleke region in the western portion of the AECI Modderfontein site (2005) (Lead Consultant: Afrosearch)
- Public Participation for the upgrading of Boundary Road, Kya Sands area (2004)
  - Marketing for the Eskom Energy Efficient Design Competition (Lead Consultant: Communication Xellence) (2004)
  - Management assistance for the public participation process for the development of the Tshwane Integrated Environmental Policy (Lead Consultant: Bohlweki Environmental) (2004)
  - SIA and public participation for the proposed 765 kV transmission power line between Hydra Substation (near de Aar) and the proposed Gamma Substation (near Victoria West), Northern Cape Province (Lead Consultant: Bohlweki Environmental) (2004)
  - Public Participation as part of the Environmental Scoping Study for the proposed upgrading of the intersection at Road D374 and Road D540 in the Muldersdrift area (2003)
  - Public Participation and SIA as part of the Environmental Scoping Study for the proposed upgrading of the Waterval Water Care Works (2003)
  - Public Participation for the return-to-service of the Camden Power Station, Mpumalanga (Lead Consultant: Bohlweki Environmental) (2003)
  - Public Participation for the development of an Environmental Management Framework for the western part of the Kungwini Local Municipality area (2003) (Lead Consultant: Index)
  - Public Participation for the proposed section of the PWV 5 from road K71 to road R21, including interchanges, Gauteng Province (2003) (Lead Consultant: Marchelle de Bruyn Development Consultants)
  - Public Participation and SIA for the proposed Poseldon-Grassridge No. 3 400 kV Transmission line and the extension of the Grassridge Substation, Eastern Cape Province (2002) (Lead Consultant: Bohlweki Environmental)
  - Public Participation and SIA for the proposed construction of power lines between the Grassridge Substation (near Port Elizabeth) and the Coega Industrial Development Zone, Eastern Cape Province (2002) (Lead Consultant: Bohlweki Environmental)
  - Public Participation and SIA for the Matimba-Witkop No. 2 400 kV Transmission line in the Limpopo Province (2001 - 2003) (Lead Consultant: Bohlweki Environmental)
  - Public Involvement for the prospecting permit application of De Beers, Premier Mine to the Department of Minerals And Energy (DME) (2002) (Lead Consultant: Bohlweki Environmental)
  - Public Participation for the proposed Toboggan Track with related facilities on Portion 155 of the farm De Rust 478 JQ (Kosmos region) (2001 - 2002) (Lead Consultant: Marchelle de Bruyn Development Consultants)

- SIA as part of the Environmental Scoping Study for the proposed Kruidfontein platinum mine in the North West Province (2001) (Lead Consultants: Afrosearch)

**1995 to 2000: Afrosearch (Pty) Ltd. (Director)**

- Public participation and SIA for the proposed Platinum Highway Project from the N1 to the Botswana Border (1999 – 2001) (Lead Consultants: Afrosearch & Bohlweki Environmental)
- Public participation process for the Pretoria East Mobility Study (Menlyn Node): First and Second Phase (1999 – 2000)
- Public participation process and SIA for the proposed C-Cut project in Cullinan (1999 – 2000)
- Public participation process for the proposed N4 Toll Road between Pretoria and the Mpumalanga Border (2000)
- Public Participation and Social Scoping for the development of a regional hazardous landfill site in the western portion of the Lekoa Vaal Metropolitan Area (1998 – 1999)
- Public Participation for the identification of an acceptable end-use for the Garstkloof Landfill Site (1998 – 1999)
- Public participation and Social Scoping for the proposed Soshanguve/Akasia Activity Spine (1998 - 1999)
- Public Involvement and SIA for the development of a landfill site at Hatherley (Mamelodi) (1996 – 1998)
- Facilitation of the public participation process to determine an acceptable closure and end-use of the Eersterust landfill site (1996 – 1998)
- Public participation process for the proposed modal transfer facility in Pretoria North and the linking of Zambesi Drive and Rachel de Beer Street (1998)
- Public participation and establishment of the Akasia and Tswaing Planning Zone Forums as part of the Integrated Development Process (1997 – 1998)
- Public participation process for the Ekangala Cost Recovery Pilot Project (1998 – 1999)
- Public Participation for the identification of a landfill site in the South-western side of Centurion (1998)
- Public participation process for the extension and upgrading of the Vaalwater landfill site (1997)
- Public Participation process and SIA for the East Rand Water Care Company: DD5A sub-drainage regional outfall sewer and water care works (1996 – 1997)

## **MEMBER 2**

### **KEY RECENT (2007-2010) PROJECT EXPERIENCE INCLUDE: Independent Development Consultant.**

#### ***Social Impact Assessment Projects***

- **Project Assistant: Environmental Impact Assessment (EIA) for the proposed for the proposed new Aggenels – Oranjemund 400 kV Transmission Power Line and Substations Upgrade, Northern Cape Province - Lead Consultant: Savannah Environmental**
- **Project Assistant: Environmental Impact Assessment (EIA) for the proposed Kannikwa Vlakte Wind Farm Project, Northern Cape - Lead Consultant: BKS/Galago Environmental**
- **Project Assistant: Environmental Impact Assessment (EIA) for the proposed Vlakfontein mixed land-use development near Springs– implementing agent City of Joburg for Enviroolution Consulting.**
- **Project Assistant: Environmental Impact Assessment (EIA) for the proposed construction of a new 400kV Transmission Power Line from the Apollo Substation to the Lepini Substation, Gauteng – for Eskom Transmission**

#### ***Public Participation Projects***

- **Public Participation Process for the proposed Western Bushveld Joint Venture Project, North West Province (Lead Consultant: QESolutions) (2011 and ongoing)**
- **Public Participation Consultant: For the proposed establishment of a Ferrochrome (FeCr) smelting facility approximately 5 km east of Brits in the North West Province - Beneficiation Company of Southern Africa (Pty) Ltd (Benficos)**
- **Public Participation Consultant: For the Water Use Licence Application (WULA) for the proposed establishment of a Ferrochrome (FeCr) smelting facility approximately 5 km east of Brits in the North West Province - Beneficiation Company of Southern Africa (Pty) Ltd (Benficos)**
- **Public Participation Consultant: For the proposed establishment of a commercial solar electricity generating facility and associated infrastructure on Portion 2 of the Farm Goedgevonden KR 104, which lies ~ 24 km north east of the town of Vaalwater in the Limpopo Province - Thupela Energy (Pty) Ltd**
- **Public participation Consultant: For the proposed Karoo Renewable Energy Facility, Northern Cape Province - Lead Consultant: Savannah Environmental**

#### ***Anthropological projects:***

- **Project Assistance: Anthropological study to determine the way forward with regards to community liaison for the proposed Booyendal Mine Project., near Lichtenburg - Northam Platinum Limited**

### ***Environmental Projects***

- **Project Manager: Environmental Impact Assessment for the proposed construction of two 400kV Transmission Power Lines from Esselen to Northrand Substation and the construction of two 132kV Transmission Power Lines from Northrand to Chloorkop substations, Kempton Park area, Gauteng – for Eskom Transmission**
- **Project Manager: Basic Assessment for the proposed construction of a poultry facility situated on portion 137 a portion of portion 56 of the Farm Elandsfontein 412 JR, Gauteng Province – for Janelda Boerdery.**
- **Project Manager: Basic Assessment for the proposed rezoning of the Derdepoort Hospital to obtain the land use rights to provide residential accommodation (122 bachelor flats) for personnel of the Derdepoort Border Control Post, situated on Portion 1 of the farm Derdepoort 84 – KP, North West Province, bordering Limpopo Province – for National Department of Public Works**
- **Project Manager: Basic Assessment Report for the proposed establishment of medium and high density housing development situated on Klipspruit Extension 11 a portion of the Remaining Extent of the Farm Freehold 389 IQ (to be known as Klipspruit Ext 11), Gauteng Province – for Urban Dynamics**
- **Project Manager: Environmental Impact Assessment for the proposed establishment of the Valencia Orange Residential Estate development on portions 139 and 140 (portion of portion 42) of the farm Hartebeestfontein 445 JQ and the farm Atlyd Mool 574 and 575 JQ, Hartebeespoort Dam, Madibeng Local Municipality - Mr Johan Nel,**
- **Project Manager: Environmental Impact Assessment for the proposed development of a new regional landfill site in Ermelo, Mpumalanga – for Gert Sibande District Municipality**
- **Project Manager: Environmental Impact Assessment for the proposed upgrading of two railway stations and the development of a new railway station and railway line, Mamelodi, east of Pretoria, Gauteng – for the South African Rail Commuter Corporation (SARCC)**
- **Project Manager: Environmental Impact Assessment for the proposed M12 Filling Station development at the Edenvale Intersection, Johannesburg Gauteng – for Mr. Mohammed Seedat**
- **Project Manager: Basic Assessment for the proposed establishment of the Centurion Aerospace Village(CAV), Centurion, Gauteng, Dept. of Trade and Industry**
- **Project Manager: EIA Process In terms of NEMA EIA regulations for all new Mogale City Local Municipality developments – for Mr Koogan Naidoo (Mogale City Local Municipality)**
- **Project Manager: Environmental Impact Assessment for the Silver Lakes Filling Station, on Silver Lakes Road, Pretoria -- Ms Gerda Schoeman (Sabel Homes)**

### ***DFA Applications:***

- **Project Manager: Environmental Impact Assessment for a proposed Rosslyn Ext 14**

development opposite suppliers park, Rosslyn Gauteng – Mr Brendian Falkson

- Project Manager: Environmental Impact Assessment for a proposed establishment an office development, situated on Erf 604 of the Farm Hartebeespoort 362 JR, Lynnwood, Pretoria, Gauteng - East and West Investments (Pty) Ltd

***Specialist projects (Review of EIA reports):***

- Reviewer and Project Manager: Review of backlog of EIA, scoping and exemption applications in terms of the Environment Conservation Act, 1989 and applications in terms of Section 24G of the National Environmental Management Act, 1998 on behalf of the Limpopo Dept. of Economic Development Environment and Tourism (MDALA) – for Victor Mngwe (LEDET)

***Environmental Management Systems, Policy and Auditing***

- Project Manager for the Emalahleni Local Municipality's Integrated Municipal Environmental Programme (IMEP) for Erald Nkabinde (Emalahleni Local Municipality)
- Project Manager for the Emalahleni Local Municipality's Integrated Municipal Environmental Programme (IMEP) for Erald Nkabinde (Emalahleni Local Municipality)
- Project Manager: Development of the Environmental Sector Plan for the compilation of a Germiston Urban Design Framework and Business Plan (Sector Plan) for the Ekurhuleni Metropolitan Municipality – client Urban Dynamics

***Mozambique EIA projects***

- Project Manager for the Environmental Impact Assessment feasibility study and conceptual design of a storm water drainage system in central and northern parts of Beira, Municipality of Dondo, Sofala Province, Mozambique

**MEMBER 3**

**FIELDS OF EXPERTISE:**

- Human resource assessment and skills analysis to determine real community-based needs, which guide the technical planning to some extent.
- Social assessments, socio-economic survey, public participation programmes, awareness campaigns and feasibility studies to predict the impacts of developments on social environments.
- Institutional development (legal entity formation and community-based structures), basic skills development training.

**EXPERIENCE RECORD:**

1997 - Present

Independent Social Development Consultant

|                              |   |
|------------------------------|---|
| <b>1998 – 2005</b>           | <b>Integrated Rural and Urban Development Expertise (Pty) Ltd<br/>t/a Index (Gauteng)</b><br><b>Manager: Community and Social Development</b> |
| <b>May 1996 - April 1997</b> | <b>Admiral Catering (London)</b><br><b>Recruitment Consultant, Office administration &amp; payroll</b>  |
| <b>1994 - April 1996</b>     | <b>Afrosearch (Pty) Ltd</b><br><b>Development Consultant and Social Facilitator</b>   |

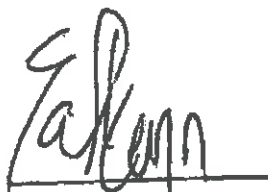
#### **SELECTED PROJECT EXPERIENCE:**

- **Social Impact Assessment for the proposed township development on Rietfontein 115IR, Ekurhuleni Metropolitan Municipality (Lead Consultant: Client: Envirovolution Consulting (Pty) Ltd)**
- **SIA for the proposed Coega Ridge Housing Development, Nelson Mandela Bay Municipality, Eastern Cape (Client: NuWay Housing Developments)**
- **SIA for the proposed development of Laguna Bay Resort and Visitor Centre, Jeffrey's Bay, Eastern Cape (Lead Consultant: Coastal & Environmental Services (CES))**
- **Public Participation and Social Impact Assessment for the closure planning of the Xsirata Alpha Mine defund operations, Vryheid, KZN (Contracted by: INDEX; Lead Consultant: ChemC Environmental cc)**
- **SIA for the proposed construction of a Solar Energy Facility on Portion 5 of the farm Wag'nblekiespan 1586, Free State Province (Contracted by: Batho Earth)**
- **Feasibility studies for income generating projects for the Alpha Community, Xstrata Alpha Mine, Vryheid, KZN (Contracted by: INDEX; Lead Consultant: ChemC Environmental cc)**
- **SIA for the upgrading of the Wemmershoek Waste Water Treatment Works and the decommissioning of the Franschoek WWTW and the construction of a transfer and outfall sewer between the two, Western Cape (Contracted by: BathoEarth; Lead Consultant: BKS Consulting)**
- **Public participation and social scoping for a proposed housing development on various portions of the farm Hansmoeskraal 202, George (Lead consultant: INDEX)**
- **Social Impact Assessment and public participation for the proposed Residential development on Portion 76 of the farm Hammanskraal 112JR, Gauteng (Contracted by: INDEX; Lead Consultant: ChemC Environmental cc)**
- **Public participation for various mine prospecting applications on a large number of farms in the Beaufort West, Camarvon and Richmond districts (Client: A Naka Tsa Kgomo Investments Holding / Ukana Trading Investments)**
- **Basic skills development training for Crushco and Alfa Mines, Gauteng (Contracted by: INDEX)**

- Implementation phase for the Alverton Restitution Project, Lydenburg - Institutional formation, community participation, project co-ordination. (In association with Fundile Development Facilitation; Client: Regional Land Claims Commission, Mpumalanga)
- Business plan development in respect of land claims lodged by Sekwayi, Mogane and Mashilane communities, Pilgrim's Rest 2 District (Contracted by: Fundile Development Facilitation)
- Public participation and Social Scoping for the proposed upgrading of a 19km section of Road P124-1 between Dwarsberg and Derdepoort, Northwest Province (Lead Consultant: Rock Environmental Consulting (Pty) Ltd)
- Public participation and Social Scoping for the proposed African Theme Park, Ekurhuleni Metropolitan Municipality (Lead consultant: Rock Environmental Consulting (Pty) Ltd)
- Public participation and social scoping for the preliminary design for the proposed N12 / Elizabeth Road half diamond interchange, Ekurhuleni Metropolitan Municipality – Gauteng Blue IQ Project (Lead consultant: Rock Environmental Consulting (Pty) Ltd)
- Public participation and social scoping for the preliminary design for the proposed section of PWV5 from Road K71 (P66-1) to Road P157-2, including Interchanges (Lead consultant: Rock Environmental Consulting (Pty) Ltd)
- Detail design for the proposed upgrading of Road K157 (Atlas Road) from the proposed K90/R21 access interchange to Elizabeth Road, Ekurhuleni Metropolitan Municipality – Gauteng Blue IQ Project (Rock Environmental Consulting (Pty) Ltd)
- Public Participation for a Proposed Hazardous Waste Incinerator on a portion of Portion 2 of the farm Bankfontein No.9, District of Sasolburg, Free State Province (Lead Consultant: Rock Environmental Consulting; Client: ARCUS GIBB)

We trust you find the above in order and look forward to your kind cooperation herein.

Yours faithfully

  
 EA STEYN  
 Group Legal Advisor