

IMPALA PLATINUM LIMITED

TOKUMENTE YA TSHEDIMOSITSO E E TLHALOSANG YA GO OKEDIWA GA BOGOLO JWA SEOMISA KA BONAKO LE DIPHETOLO TSA MODIKOLOGO O O TSENYANG KWA KHOMPOLEKESENG YA SENYEROLSI YA IMPALA RUSTENBURG

TLHAKOLE 2021

KETAPELE:

Impala Platinum Limited (Impala), e e leng leloko la sethlopha sa dikhamphane tsa polatinamo, e na le tiro ya go epa le go dirisa dimetale tsa sethlopha sa polatinamo e e dikhilomitara di ka nna 16 kwa bokone-bokone-bophirima jwa toropo ya Rustenburg mo Mmasepaleng wa Kgaolo wa Bojanala Platinum mo Porofenseng ya Bokone Bophirima. (Bona Setshwantsho 1)

Moepo o dirisa pego e e dumeletsweng e e kopantsweng ya Lenaneo la Taolo ya Tikologo (*Environmental Management Programme report* [EMPr]) ya (DMRE ya Referense ya nomoro ya: NW30/5/1/2/3/2/1/130,131,132 and 133 EM) ya Khompolekese ya Senyerolosi le Laesense ya Digase tse di Tswelang mo Moweng (*Atmospheric Emissions Licence* [AEL]) (Referense ya Nomoro ya: BPD –RA2 - March 2014 / Go Omisa le go Nyerolosa) ya go omisa le go nyerolosa.

Khompolekese ya Senyerolosi e na le diomisi tsa go kgatšha ka bonako mo go Karolo 2 ya polasi ya Beerfontein 263 JQ. Jaanong Impala e kopela go fetola AEL go oketsa bogolo jwa go omisa ka bonako kwa Khompolekeseng ya yone ya Senyerolosi e e leng:

- Go tsenngwa ga seomisa ka bonako sa bobedi (Kgato 1); le
- Go tlhatlosiwa ga modikologo o o tsenyang go omisa ka bonako (Kgato 2).

TIRO YA THEBOLELO YA GO DIRA MO TIKOLOGONG

Pele ga tshimololo ya porojeke e e kopelwang, go batlega tse di latelang:

- EMPr e e fetotsweng e e dumeletsweng ya Lefapha la Metswedi ya Dimenerala le Maatla (*Department of Mineral Resources and Energy* [DMRE]) go ya ka Karolo 102 ya molao wa *Mineral and Petroleum Resources Development Act* (Molao 28 wa 2002 [MPRDA]) e e fetotsweng;
- Thebolelo ya DMRE ya go dirisa tikologo go ya ka molao wa *National Environmental Management Act* (Nomoro 107 wa 1998 NEMA) e e fetotsweng. Melawana ya Tshekatsheko ya go Amega ga Tikologo (*Environmental Impact Assessment*) e e dirisiwang ke Molawana wa Kitsiso ya Puso wa (GNR) 982 wa 4 Morule 2014, o o fetotsweng; le
- Go fetolwa ga AEL ya Mmasepala wa Kgaolo ya Bojanala go ya ka Taolo ya Tikologo ya Naga: Molao wa Boleng jwa Mowa (No. 39 wa 2004) (NEM-WA), o o fetotsweng.

BOIKAELELO JWA TOKUMENTE ENO

Tokumente eno e kwadilwe ke ba SLR go go itsise kaga:

- Porojeke e e kopelwang;
- Tikologo ya motheo ya lefelo la porojeke;
- Tsamaiso e e latelwang ya tshekatsheko ya tikologo (Tsamaiso ya Motheo ya Tshekatsheko);
- Go amega mo go ka diragalang ga ditshedi tsa lefelo leo / setso / ikonometri le loago; le
- Kafa o ka nnang le seabe ka gone mo tirong eno ya tshekatsheko ya tikologo.

SLR Consulting (Africa) (Pty) Ltd (SLR), feme e e ikemetseng ka nosi ya bagakolodi ka tsa tikologo, e tlhomilwe ke Impala go laola tiro le pego ya tshekatsheko ya tikologo.

SEABE SA GAGO

O supilwe fa o le mongwe wa batho ba ba nang le kgatlhego le/kgotsa ba ba amegang (*interested and affected party* [I&AP]) yo o ka nnang wa batla go itsisiwe ka porojeke e e kopelwang e, le go latlhela la gago ka tiro ya tshekatsheko ya go dirisa tikologo le pego.

O na le tshono ya go tlathloba tokumente eno le go naya SLR ditshwaelo tsa gago tsa ntlha gore di tsenngwe mo tirong ya tshekatsheko ya tikologo.

Gape o tla nwa tshono ya go tlathloba le go tshwaela ka Pego ya Tshekatsheko e e Tlwaelegileng (*Basic Assessment Report* [BAR])

Ditshwaelo tsotlhe di tla kwalwa le go akarediwa mo dipegong tse di romelwang kwa DMRE gore

TSELA YA GO TSIBOGA

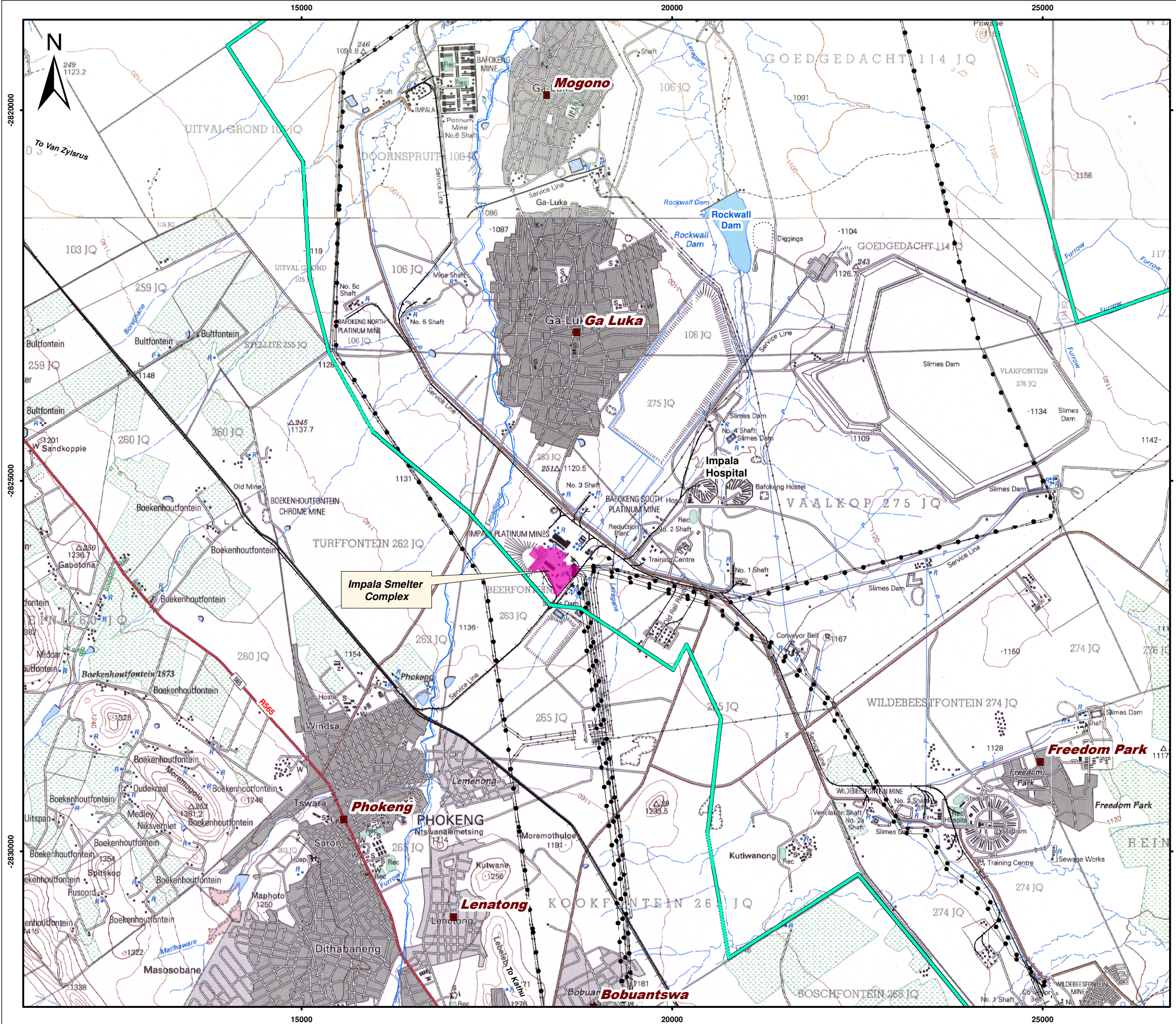
Ditšibogo mabapi le tokumente eno di ka nna tsa romelwa ka pampiri ya ditshwaelo e e tshwaragantsweng le eno le/kgotsa ka go buisana le motho wa leina le le kwadilweng fa tlase.

YO O TSHWANETSENG GO IKGOLAGANYA LE ENE

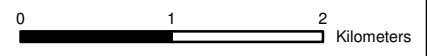
Reinett Mogotshi

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rmogotshi@slrconsulting.com



- Legend**
- Towns / Villages
 - Main Roads
 - Power Line
 - +— Railway Line
 - Rivers
 - Dams
 - ▭ Impala Surface Use Area
 - Impala Smelter Complex



Scale: 1:50 000 @ A3

Projection: Transverse Mercator
Datum: Hartbeeshoek, Lo 27

Impala Platinum Limited

Setshwantsho 1
Mmapa wa Lefelo



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2020/08/20

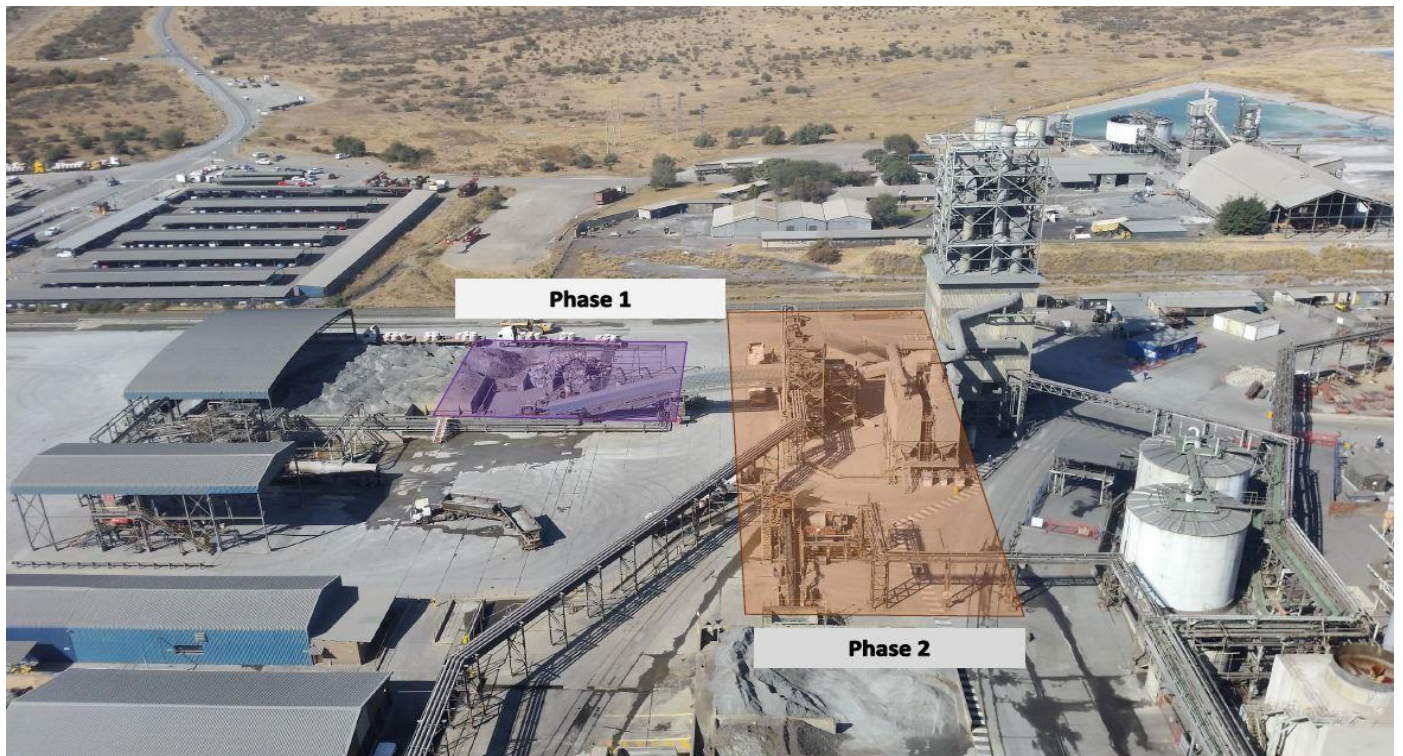
TLHALOSO YA POROJEKE KA BOKHUTSWANE

Ka kakaretso, dikarolo tse di leng teng tsa tiro ya Impala Rustenburg di akaretsa: go epa fa godimo ga lefatshe, go epa kafa tlase ga lefatshe, go kgaogangwa ga manya le dilo tse di senang mosola, ditiro tsa go nyerolosa, (go akaretsa ditiro tsa diomisa ka bonako le ka go kgatšha) dipolante tse di nang le diminerala tsa dilatlhiwa tse di metsi tse di elelelang mo go tšone, le mafelo a a nang le diminerala a taolo ya metsi a a nang le diminerala.

Jaanong Impala e rulaganya go oketsa bogolo jwa seomisa ka bonako, se se tlhokang gore go tšenngwe seomisa ka bonako sa bobedi le go fetolwa ga modikologo wa go tšenya. Seno se tšile go oketsa bogolo jwa phepatso ya dikompa tse di nnang teng ka nako ya go tšhotlha, se kwa morago se tla oketsang le go tokafatsa bokgoni jwa go tsaya dikgaogangwa tse di kokoangwang. Dikarolo tsa porojeke e kgolo tse di dirang kgato nngwe le nngwe tse di kwadilweng fa tlase.

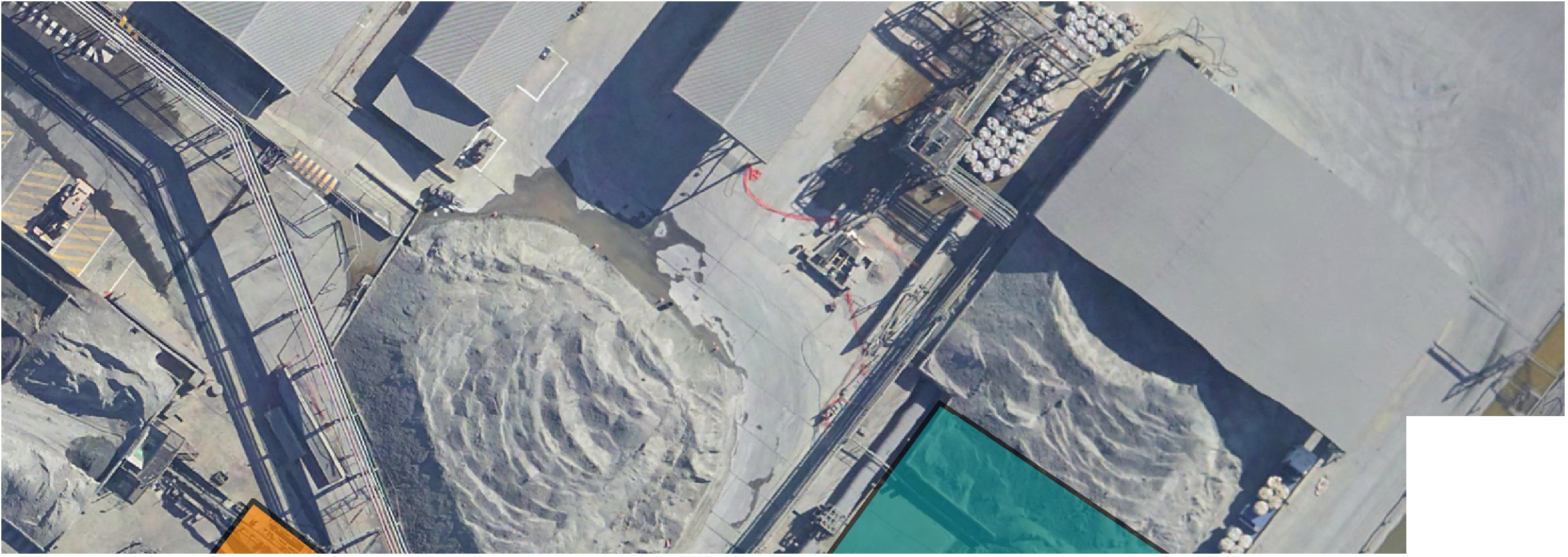
Seomisa ka Bonako sa Bobedi (Kgato 1)	Go Tlhatlosiwa ga Modikologo o o Tšenyang wa Seomisi sa ka Bonako (Kgato 2).
<p>Dikarolo tse dikgolo tsa Kgato 1 di akaretsa:</p> <ul style="list-style-type: none"> ○ Kago e Telele ya Phetiso; ○ Sefepi se se Metsi; ○ Dikhombeyara tsa Sefepi se se Metsi; ○ Seomisa ka Bonako (se se lekanang le seomisi sa mo nakong eno ka bogolo; le 	<p>Dikarolo tse dikgolo tsa Kgato 2 di akaretsa:</p> <ul style="list-style-type: none"> ○ Diphetolo tsa dikago di akaretsa; ○ Kago e Telele ya Kgaoganyo ya Ditsenyi; ○ Polante ya Setlhotlhi; le ○ Dikhombeyara tsa Sefepi se se Metsi.

Setshwantsho sa Khompolekese e e leng teng ya Senyerolosi sa kwa Rustenburg se se bontshang mafelo a a tšhwaetsweng dikarolo tsa lefelo la porojeke ya Kgato 1 le Kgato 2 se bontshiwa mo go Setshwantsho 2 se se fa tlase. Thulaganyo e e tlhalositsweng sentle ya bodirelo e bontshiwa mo go Setshwantsho 3.



Setshwantsho 2: Setshwantsho sa Senyerolosi se se leng teng sa kwa Rustenburg le mafelo a a tšhwaetsweng dikarolo tsa lefelo la porojeke ya Kgato 1 le Kgato 2

MABAKA A GO BO POROJEKE E KOPELWA	TSE DINGWE DI SELE GO NA LE
<p>Go tlhatlosiwa ga modikologo o o tšenyang wa seomisa ka bonako go tla dira gore diomisi ka bobedi (e e leng teng le e ntšha) di kgone go tšenngwa ka nako e le nngwe go dirisiwa modikologo o o leng teng, ka go rialo go baakangwa mathata a go tšenya mo go sa direng sentle ka metlha a tsamaiso ya jaanong ya go tenya</p> <p>Go tšenngwa ga polante e e tšhotlhang go dira gore go kgonege go bolokwa ga metsi a mo nakong eno a latlhegelang mo moweng fa go dirisiwa modikologo wa go omisa ka go kgatšha metsi mme ka go rialo go tokafadiwa go dirisiwa ga magala ke yuniti ka go emisa karolo ya se se fetisiwang se tswa mo diyuniting tse di sa direng sentle tsa go omisa ka go kgatšha, ka go dirisiwa ka botlalo ga bokgoni</p>	<p>Go dirilwe tšhwetso ka lefelo la tšhabololo eno go lebilwe fa seomisa ka bonako se leng teng mo nakong eno kwa Khompolekeseng ya Senyerolosi. Go a utlwa he gore ga go a ka ga akangwa ka mafelo ape a mangwe a bodirelo ka baka la lefelo le le tšhomameng leno.</p>



SEEMO SA TIKOLOGO YA DITSHEDI TSA LEFELo, SETSO LE IKONOMI LE LOAGO

Karolo eno e naya tthaloso e khutshwane ya seemo sa go bona tikologo ya ditshedi tsa lefelo leno, setso le ikonomi le loago mo lefelong la porojeke eno le ditikologo tsa lone.

Popego ya mmu wa lefatshe

Porojeke eno e mo lefelong la Khompholekese ya Ditlhatshana tsa Tlhago (Bushveld Ingenious), matlapa a magolo a lefelo leo a a nang le tthatlhamano ya matlhatlaganyane a matlapa a a amanang le matlapa a a magwata.

Popego ya lefatshe

Ga go na popego ya lefatshe ya tlhago e e mo lefelong le le kopelwang leno la porojeke ka gone lefelo la madirelo le fa lefelong le le kgoreleditsweng la Khompolekese ya Senyerolosi. Mo seemong seno a tlhago a lefelo leno la porojeke le na le dipowa tse di tthatlogang le go welela bonolo tse di fetang bodimo jwa lewatle ka dimitara tse 1120.

Tlelaemete

Porojeke eno e mo Lefelong la Tlelaemete ya Nagagodimo. Gantsi dithemperetshara tsa lefelo leno di bonolo, mme go ka nna ga nna le tse di kwa tlase thata mariga ka malatsi a loapi le senang maru gotlhelele.

Mebu le Bokgoni jwa Lefatshe

Bontsi jwa mebu ya mo lefelong leno ke mebu e e rulaganeng sentle, e e seng boteng thata e e seloko thata se se dirang gore e kgone go boloka metsi a mantsi. Ka jalo mmu wa mo lefelong leno ga o kgothege thata lefa go ntse jalo o na le go papamala thata.

Mefuta e e Farologaneng ya Ditshedi

Ga go na ditlhatshana tse di mo lefelong le le kopelwang leno la porojeke ka gone lefelo la madirelo le fa lefelong le le kgoreleditsweng la Khompolekese ya Senyerolosi. Lefelo la porojeke eno le mo polanteng e e adilweng ka konkoreite, mo go utlwalang he gore ga go na diphologolo mo lefelong leo ka kakaretso, lefelo le le dikologileng Khompolekese ya Senyerolosi le mo mofuteng wa dimela tsa Ditlhare tse di Mitlwa tsa Marikana (Marikana Thornveld) le le nang le dipowa tse di tthatlogang le go welela bonolo le dithota tse di sa tthatlogang thata. Go lemogilwe mafelo a le mmalwa a ditshedi tse di farologaneng thata mo mefuteng ya dimela tseno ka gone go bonwe diphologolo tsa Red Data le diphologolo tse dintsi mo lefelong leno. Lefa go ntse jalo dimela tsa tlhago ka kakaretso di fokoditswe ke ditiro tsa mo motseng oo le ditiro tsa moepo.

Metsi a a fa Godimo ga Lefatshe

Ga go na mefuta epe ya metsi a a fa godimo ga lefatshe a a sekgalag sa dimitara tse 100 go tswa fa lefelong leo; go a utlwala he gore ga go na kgonego e e kalo ya gore go elela ga metsi a a fa godimo ga lefatshe le boleng jwa one a ka amega ka gone madirelo ano a fa lefelong le le kgoreleditsweng la Khompolekese ya Senyerolosi. Khompolekese ya Senyerolosi e bapile le molatswana o o senang metsi ka metlha le megobe e le mmalwa.

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Metsi a a kafa tlase ga lefatshe

Selekanyo sa metsi a a kafa tlase ga lefatshe se amiwa ke ditiro tsa go epa tse di dirwang mo lefelong le le bulegileng. Bontsi jwa dipetse tsa batho ba sele tse di mo lefelong la porojeke le mo tikologong ya lone di dirisiwa go baya leitlho metsi a a kafa tlase ga lewatle, mo malapeng le go nosa diphologolo.

Boleng jwa Mowa

Boleng jwa mowa o o mo tikologong e e gaufi bo amilwe thata ke meepo e e gaufi, dipolante tsa madirelo le ditiro tsa dibobelara, melelo ya mo malapeng le digase tse di tswang mo megatleng ya dikoloi. Boleng jwa mowa mo lefelong la porojeke eno o amiwa ke ditiro tsa go nyerolosa tse di tshwanang le manathwanyana a a tswang mo seomising sa ka bonalo le le go tshwarwa ga matheriale wa kwa khonbeyara e fetisang dilo teng.

Modumo

Maemo a modumo mo lefelong le legolo la porojeke a bakiwa ke ditiro tsa go epa le pharakano ya dikoloi tsa mo lefelong leo. Maemo a modumo mo lefelong la porojeke thatathata a bakiwa ke pharakano ya dikoloi tsa mo lefelong leo tsa diteraka tsa batho ba bangwe le ditiro tsa go nyerolosa.

Tse di bonwang

Pono ya lenaga mo lefelong leo ka kakaretso e e magareng go ya go kwa tlase ka baka la dikago tsa moepo le tsa motse oo. Ereka porojeke eno e le fa lefelong le le kgorelediwang ke Khompolekese ya ya Senyerolosi, pono ya lenaga leo e tsewa e se e e kalo kalo.

Mafelo a Boswa/Setso

Ka kakaretso, porojeke eno e mo lefelong la Bankeveld Legare le le nang le dilo tsa botlhokwa tsa boswa jwa boepamarope tsa dinako tsa bogologolo jwa goo lowe go fitlha ka dinako tsa metlha eno (kgotsa tsa nako ya bokolone), tse e leng rekoto ya bojwa jwa setso jwa bontsi jwa merafe ya Aforika Borwa. Lefa go ntse jalo, ga go na dilo dipe tsa boswa kgotsa tsa bogologolo jwa goo lowe tse go lebeleletsweng gore di ka nna teng mo lefelong le porojeke eno e leng mo go lone ka gone madirelo a yone a fa lefelong le le kgoreleditsweng ke Khompolekese ya Senyerolosi.

DIKAMEGO TSE DI KA DIRAGALANG TSA DITSHEDI TSA LEFELo/SETSO/IKONOMI LE BATHO

Ka baka la go tswalwa ga porojeke e e kopelwang go lebeleletsweng gore se se tla amegang e tla nna fela:

- * Dikotsi tsa tshireletsego ya batho
- * Kgotlelo ya modumo
- * Pono ya lefatshe;
- * Pharakano ya dikoloi ;
- * Metsi a a kafa tlase ga lefatshe;
- * Metsi a a fa godimo ga lefatshe;
- * Digase tse di tswelang mo moweng; le
- * Go amega ga konomi le loago

Porojeke e e kopelwang e fa Khompolekeseng ya Senyerolosi le mo lefelong le le setseng le kgoreleditswe Go a utlwala he gore go amega mo go ka diragalang mo go amanang le mebu le bokgoni jwa lefatshe, metsi a a mo godimo ga lefatshe, metsi a a kafa tlase ga lefatshe, didirisiwa tse di bonwang ka matlho, boswa/setso le dilo tsa nako ya bogologolo le tiriso ya lefatshe go solofelwa gore e tllile go nna mo go seng kalo.

TIRO YA THEBOLELO YA GO DIRA MO TIKOLOGONG

Tsamaiso ya tshekatsheko ya tikologo e naya:

- Tshedimotsetso ka porojeke le tikologo e e dirwang mo go yone;
- E supa kafa ditshedi tsa lefelo/ setso/ ikonomi le batho di tlileng go amega ka tsela e e sa siamang le e e siameng, e dirisana le bo-O&AP; gape
- E bega dikgato tse di tshwanetseng go tsewa ke batsamaisi go baakanya dikamego tseo mme e akaretsa se se batlegang mabapi le dithulaganyo tsa go tlhokomela tiro (fa go tlhokega).

Fa tlase fano go nawa dikgato tsa tiro tse di ka nnang tsa tsewa le ditekanyetso tsa nako.

KGATO I - Kgato ya pele ka go dira kopo (Phatwe 2020 go ya go Tlhakole 2021)

- Go kokoangwa ga dathabeise ya I&AP le Bathati ba ba tshwaelang
- Kopano ya pele ga go dira kopo e e tshwarwang le DMRE;
- Kopano ya pele ga go dira kopo kwa go Mmasepala wa Kgaolo wa Bojanala Platinum ya go fetolwa ga AEL
- Dikopano tsa patlisiso tse bo-I&AP ba konokono; le
- Itsise bathati ba ba tshwaelang le bo-I&AP ka porojeke e e kopelwang le tiro ya tshekatsheko ya tikologo (ka dikitsiso tsa mo dipampiring tsa dikgang dikitsiso tsa mo lefelong la tiro, kanamiso ka inthanete ya

KGATO II – Kgato ya BAR (Tlhakole go ya go Mopitlo 2021)

- Go romelwa ga kopo ya NEMA kwa DMRE:
- Go kwalwa ga BAR le tshobokanyo, go e naya bo-I&AP le balaodi ba ba tshwaelang gore ba e tlhatlhobe malatsi a le 30 (Ngwanaatsele go ya go Morule 2020);
- Go tlhomiwa ga dipousetara mo metseng e e nayang tse di bonwang mo tirong ya BA le
- Go tsenngwa ga ditshwaelo tsa bosheng mo BAR tse di amogetsweng ka nako ya tlhatlhobo ya morafe.

KGATO III – Kgato ya tlhatlhobo ya mothati yo o tshwanelegang (Mopitlo go ya go Phukwi 2021)

- Romela BAR (e na le ditshwaelo tse di neilweng ka nako ya tlhatlhobo) kwa DMRE gore go dirwe tshwetso (bofelo jwa Ferikgong 2020) (malatsi a le 107 a nako e e beilweng ke molao a go dira tshwetso); le
- Romela ditshwetso kwa go bo-I&AP le bathati ba ba tshwaelang mo dathabeising ya

KGATO IV – Kgato ya AEL (Phatwe go ya go Lwetse 2020)

- Go romelwa ga kopo e e fetotsweng ya AEL kwa go Mmasepala wa Selegae wa Rustenburg.

BATHO BA BA TSHWARAGANENG LE TIRO YA TSHEKATSHEKO YA TIKOLOGO

Bo-IAP

- * Mong wa Lefatshe (Ripaboliki ya Bophuthatswana)
- * Beng ba lefatshe ba mo tikologong, badirisi ba lefatshe le metse ya morafe;
- * Diintaseteri tse di mo tikologong;
- * Ditheo tse e seng tsa puso ka botlalo; le
- * Dikgotla tsa metse (Morafe wa Bafokeng)

BALAODI BA BA TSHWANELEGANG LE BA BA NAYANG DITSHWAELO

- * DMRE ya Bokone Bophirima;
- * Department of Environment, Forestry and Fisheries (DEFF);
- * Lefapha la Bonno jwa Batho, Metsi le Ntsholeswe (*Department of Human Settlement, Water and Sanitation [DHSWS]*);
- * Lefapha la Temothuot la Porofense ya Bokone Bophirima
- * Lefapha la Tlhabololo ya Metseselegae le Paakanyo ya Lefatshe (*Department of Rural Development and Land Reform [DRDLR]*) la Bokone Bophirima;
- * Lefapha la Tlhabololo ya Metseselegae, Tikologo le Temothuo la Porofense ya Bokone Bopirima (*North West Department of Rural, Environment & Agricultural Development [DREAD]*)
- * Lefapha la Bokone Bophirima la Ditsela le Ditiro tsa Morafe
- * Diparaka le Bojanala jwa Bokone Bophirima; le
- * *South Africa Heritage Resource Agency (SAHRA)*

BATHATI BA LEFELO LE SETSO

- * Mmasepala wa Selegae wa Rustenburg (go akaretsa le mokhanselara wa kgotla);
- * Mmasepala wa Kgaolo ya Bojanala Platinum

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TOKUMENTE YA TSHEDIMOSETSO E E TLHALOSANG YA GO OKEDIWA GA BOGOLO JWA SEOMISA KA BONAKO LE DIPHETOLO TSA MODIKOLOGO O O TSENYANG KWA KHOMPOLEKEE YA SENYEROLOSI YA IMPLALA IMPALA RUSTENBURG FOROMO YA GO IKWADISA LE YA DIKARABO YA BATHO BA BA NANG LE KGATLHEGO LE BA

LETSHA		NAKO	
TSHEDIMOSETSO KA MOTHO YO O NANG LE KGATLHEGO LE YO O AMEGANG			
LEINA			
ATERESE YA POSO			
		KHOUTU YA POSO	
ATERESE YA SETERATA			
		KHOUTU YA POSO	
NOMORO YA MOGALA YA KWA TIRONG/		NOMORO YA FEKESE YA KWA TIRONG/	
NOMORO YA		ATERESE YA IMEILE	

TSWEETSWEE SUPA KGATLHEGO YA GAGO MO POROJEKENG E E KOPELWANG
TSWEETSWEE KWALA DITSHWAELO TSA GAGO LE DIPOTSO FA

Tsweetswee busetsa diforomo tse di tladitsweng kwa go:
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