

SUBCATCHMENTS					
NAME	TAG	OUTLET	AREA (ha)	PEAK RUNOFF (m ³ /s)	
S1	Clean	J1	5.154	0.38	
S2	Clean	J2	24.937	1.84	
S3	Clean	J6	4.073	0.59	
S4	Clean	J16	2.765	0.41	
S5	Clean	J7	3.275	0.49	
S6	Clean	J8	2.267	0.33	
S7	Clean	J9	3.113	0.45	
S8	Clean	J4	3.822	0.29	
S9	Clean	J19	3.008	0.44	
S10	Clean	J24	0.686	0.10	
S11	Clean	J20	0.595	0.09	
S12	Clean	J21	0.666	0.10	
S13	Dirty	J12	1.781	0.67	
S14	Clean	J3	1.883	0.29	

LEGEND:

- ▭ CLEAN WATER CATCHMENTS
- ▭ DIRTY WATER CATCHMENTS
- - - CLEAN WATER CONDUITS
- - - DIRTY WATER CONDUITS
- CLEAN WATER JUNCTION
- DIRTY WATER JUNCTION
- S1** CATCHMENT AREA No.
- CONDUIT FLOW DIRECTION



REV	DATE	REVISION DETAILS
A	06.10.17	FOR INFORMATION
B	20.11.17	FOR INFORMATION

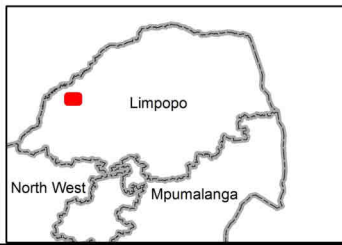
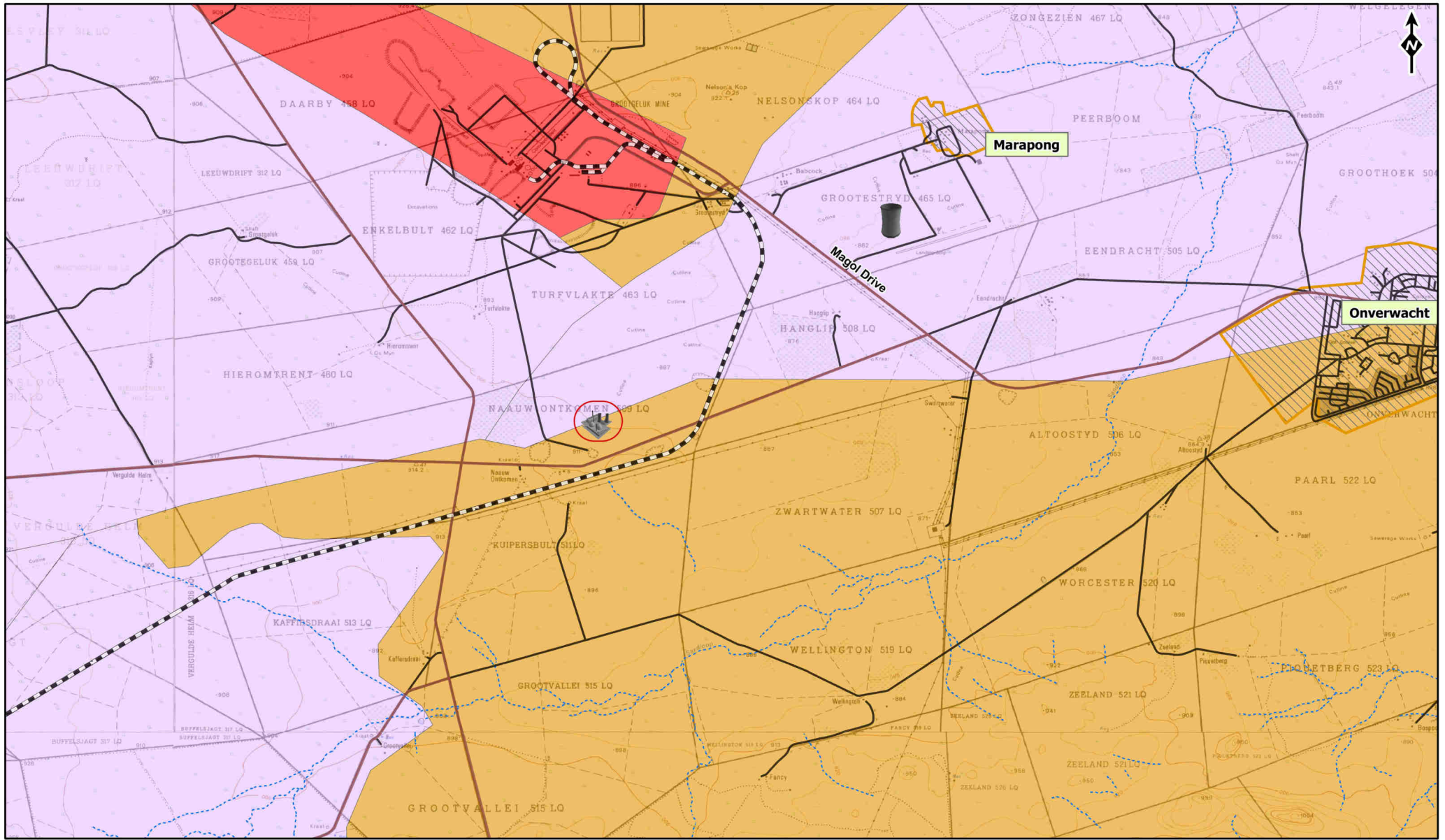
APPROVED	SCALE	SIZE
R. GILAU	1:2000	A1
J. FORD		
I. GREYLING		
L. DE LANGE		

FOR INFORMATION NOT FOR CONSTRUCTION
APPROVED
R. GILAU
R. GILAU














PROJECT	TITLE
MEDUPI FGD RETROFIT PROJECT	CATCHMENT AREAS AND SUB-CATCHMENT LAYOUT

DRAWING No.	PROJECT No.	WBS	TYPE	DISC	NUMBER	REV
500332	0000	0000	DRG	SW	0001	B

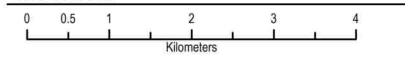
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LEGEND

-  Medupi Power Station
-  Matimba Power Station
-  Regional road
-  Main road
-  Secondary road
-  Streets and other access
-  Rail
-  Non Perennial Rivers
-  Perennial Rivers
-  Communities
- Geology (DWAf, 2006)**
-  BASALT
-  SHALE
-  ARENITE

RESOURCES NOTES




REFERENCE

PROJECTION GCS WGS 1984

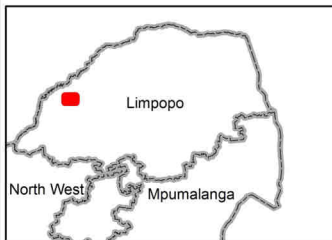
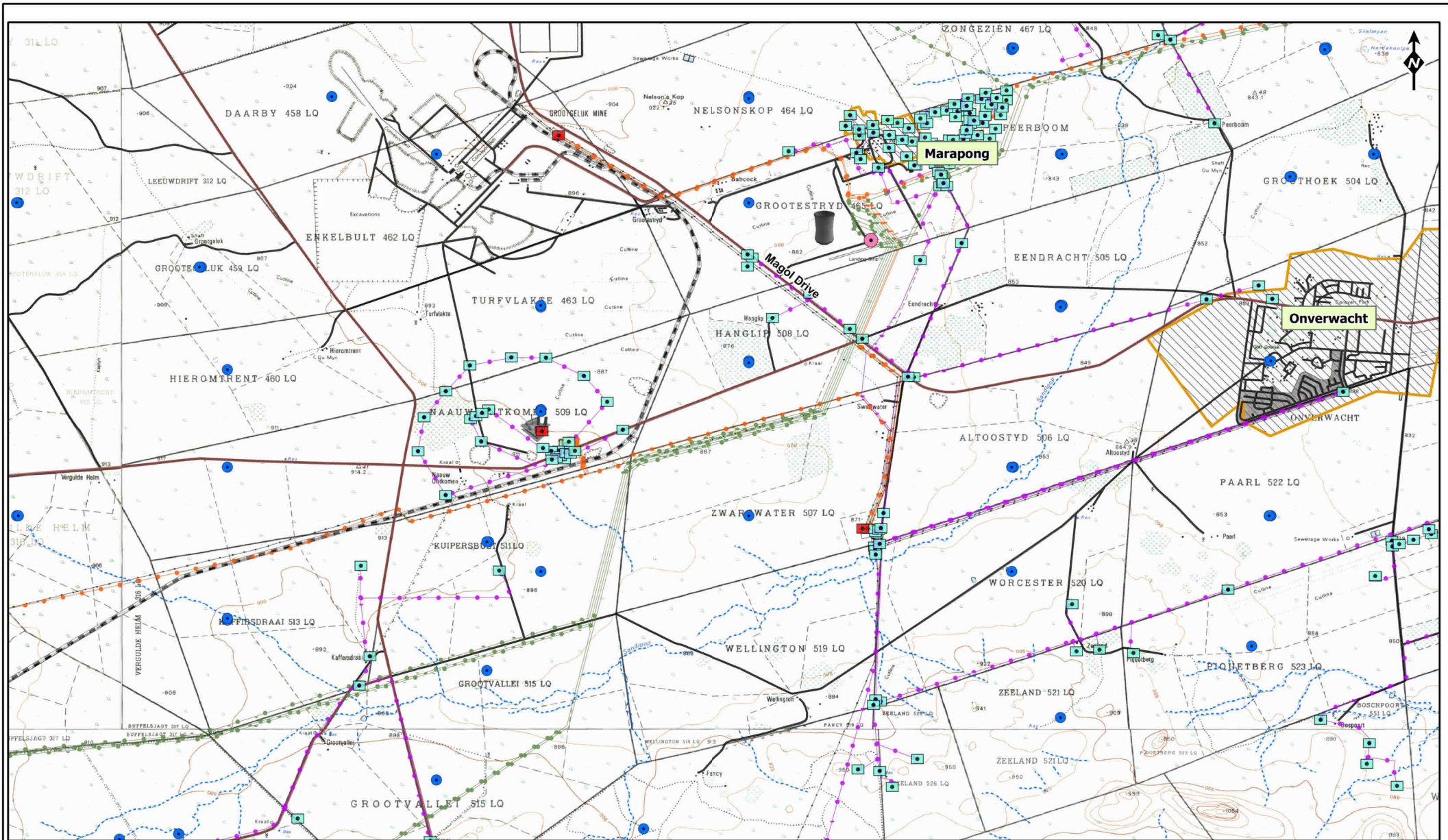
PROJECT
MEDUPI FGD

TITLE
GEOLOGY MAP

GIS	VR	2015/02/13	PROJECT No. 12949
CHECK	SM	2015/02/13	SCALE 1:85 000
REVIEW	-	2015/02/13	A3 REV 0



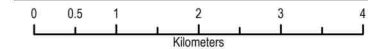
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LEGEND

- Borehole
- Telecom tower
- Eskom Substations HV
- Eskom Substations MV
- Medupi Power Station
- Matimba Power Station
- Regional road
- Main road
- Secondary road
- Streets and other access
- Rail
- - - Non Perennial Rivers
- Perennial Rivers
- Eskom Powerlines TX
- Eskom Powerlines HV
- Eskom Powerlines MV
- Communities

RESOURCESNOTES



REFERENCE

PROJECTION GCS WGS 1984

PROJECT

MEDUPI FGD

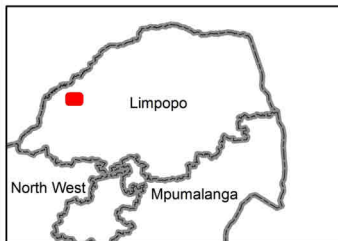
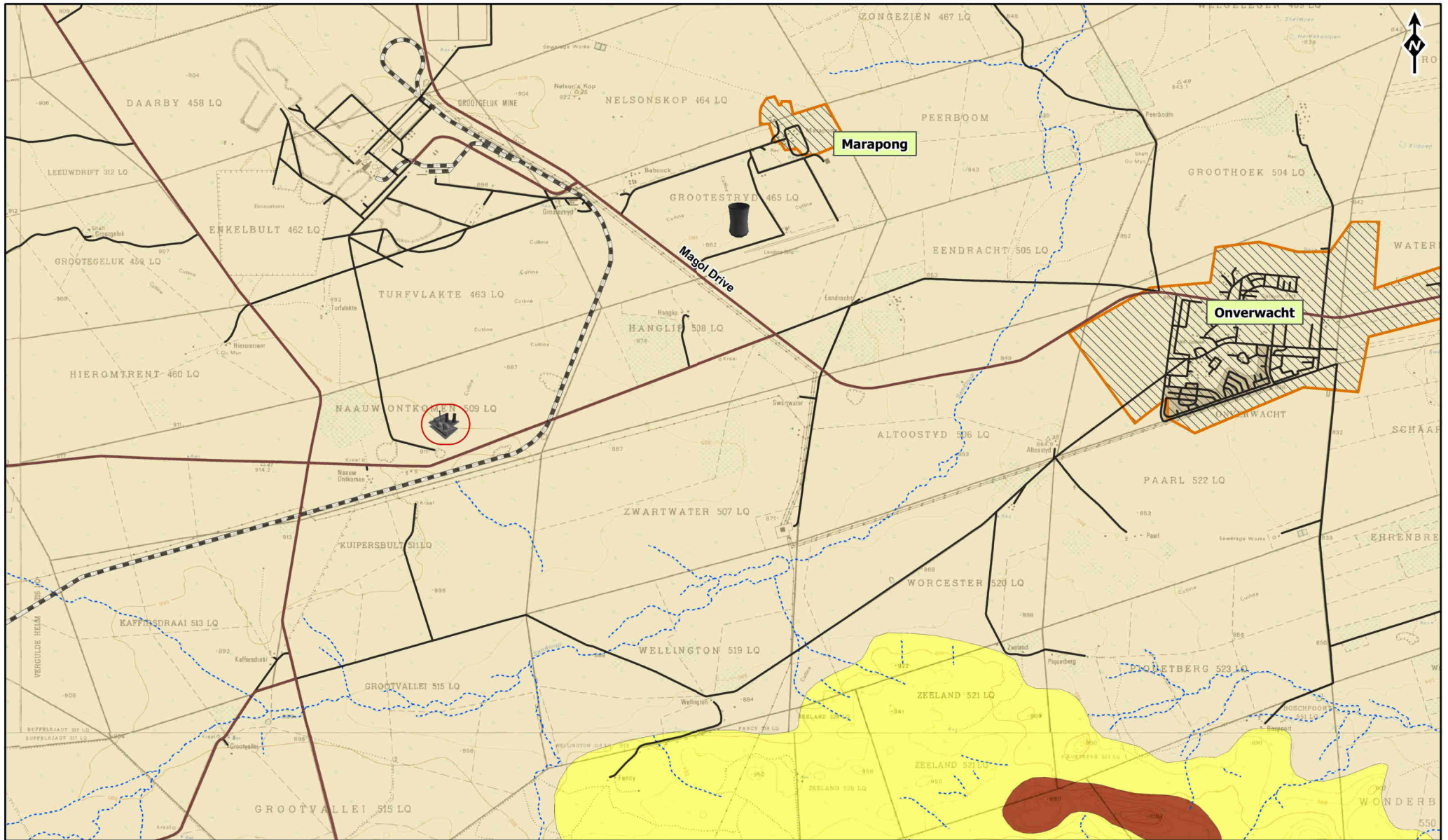
TITLE

INFRASTRUCTURE MAP



GIS	VR	2015/02/13	PROJECT No. 12949
CHECK	SM	2015/02/13	SCALE 1:85 000
REVIEW	-	2015/02/13	A3 REV 0

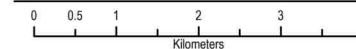
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LEGEND

-  Medupi Power Station
-  Matimba Power Station
-  Regional road
-  Main road
-  Secondary road
-  Streets and other access
-  Rail
-  Communities
- Land Capability (DWAF, 2006)**
-  Marginal potential arable land
-  Moderate potential arable land
-  Non-arable; Grazing, Woodland or Wildlife
-  Wilderness

RESOURCES NOTES



PROJECT

MEDUPI FGD

TITLE

LAND CAPABILITY MAP

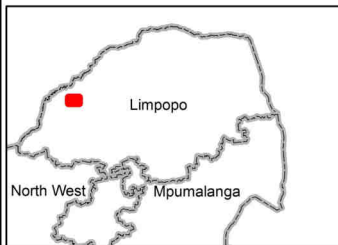
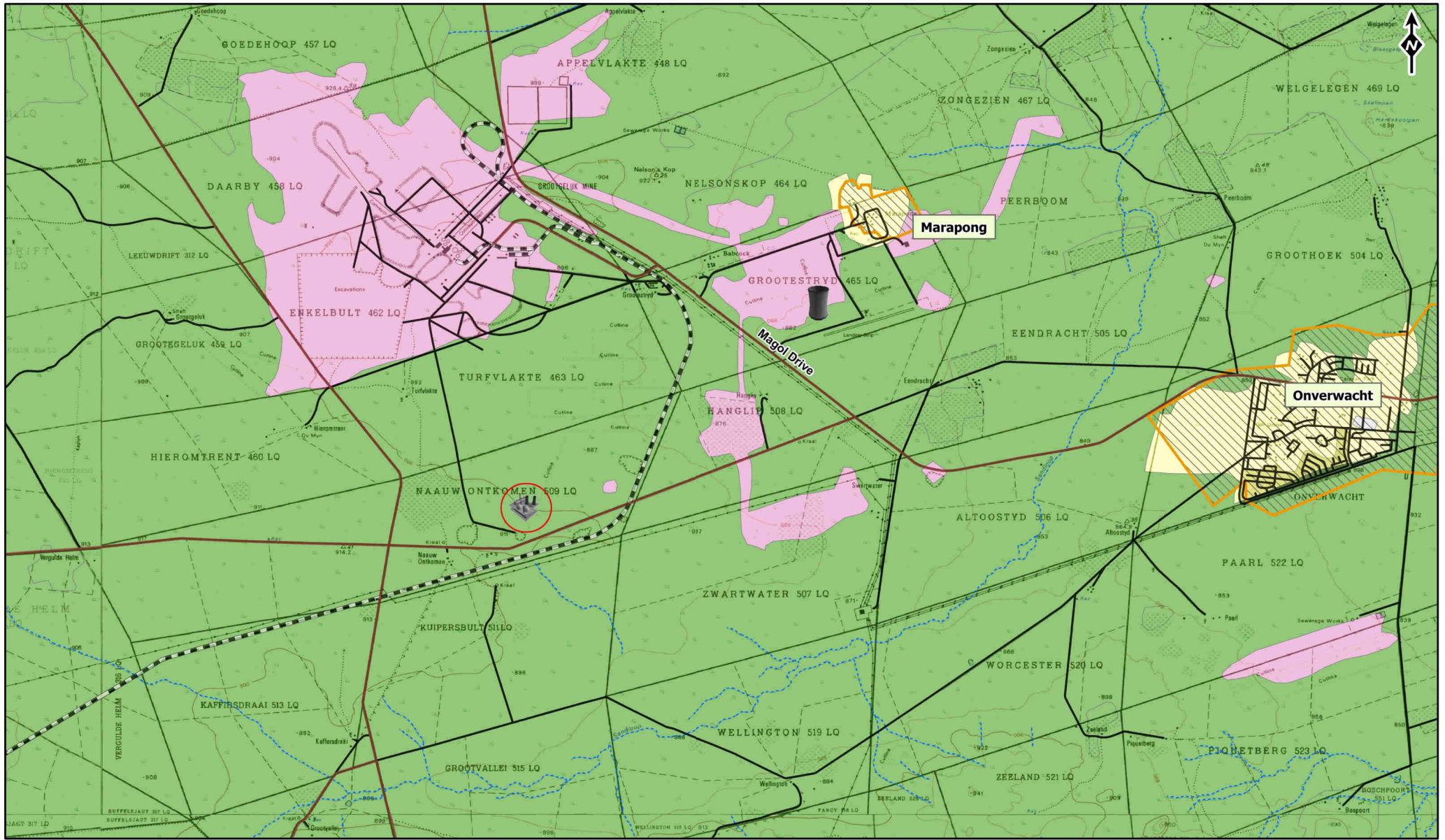
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PROJECTION GCS WGS 1984



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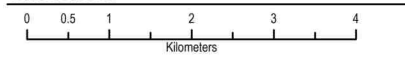
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LEGEND

- Medupi Power Station**
- Matimba Power Station**
- Regional road
- Main road
- Secondary road
- Streets and other access
- Rail
- Non Perennial Rivers
- Perennial Rivers
- Communities
- Land Cover (DWAf, 2006)**
- Urban / built-up land: residential
- Urban / built-up land: commercial
- Natural
- Urban / built-up land: industrial
- Mines & quarries
- Waterbodies

RESOURCES/NOTES



REFERENCE

PROJECTION GCS WGS 1984

PROJECT

MEDUPI FGD

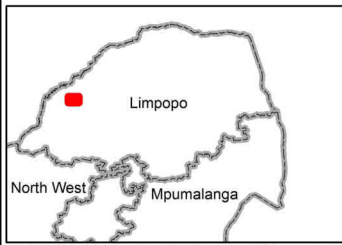
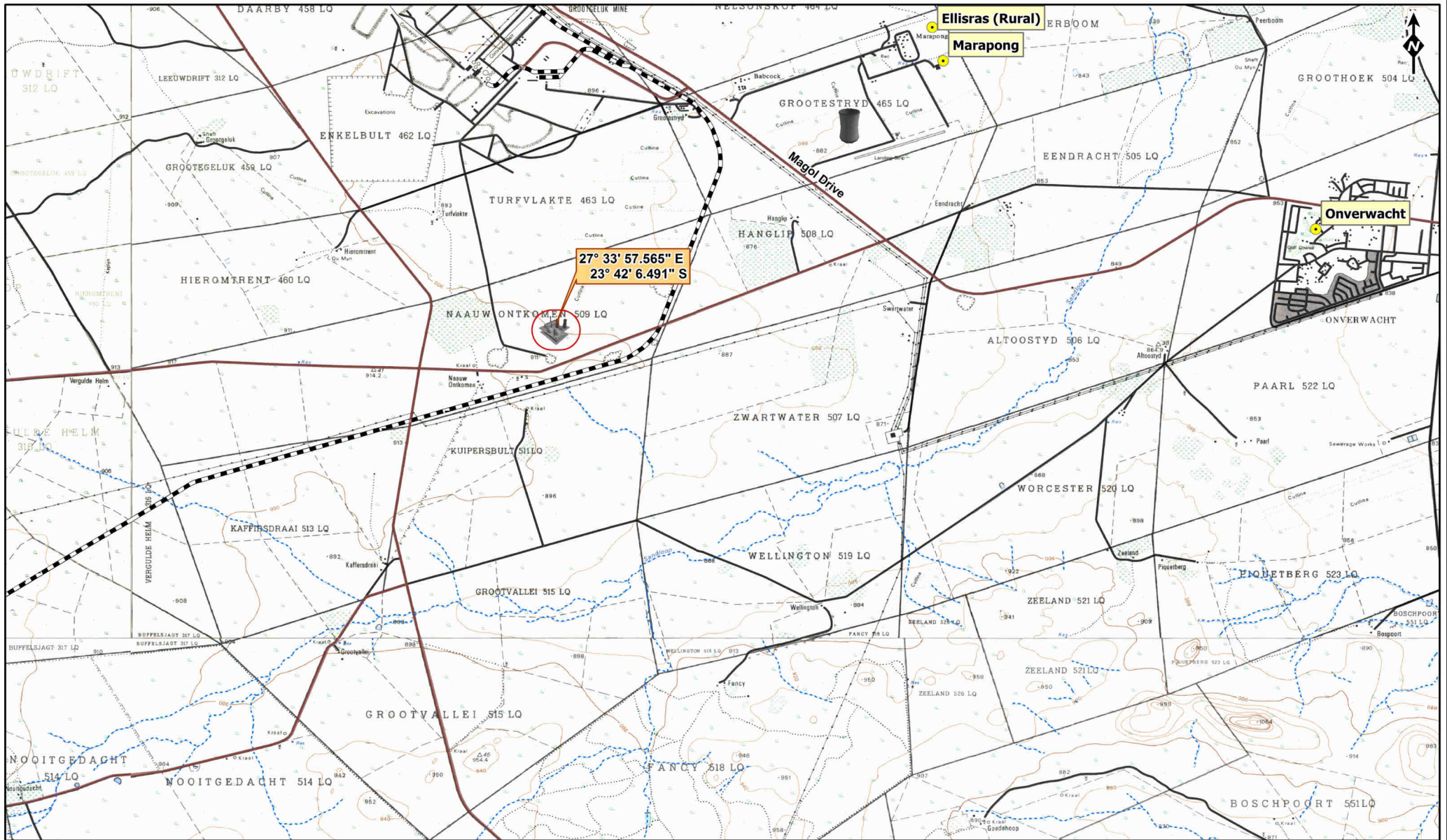
TITLE

LAND COVER MAP



GIS	VR	2015/02/13	PROJECT No. 12949
CHECK	SM	2015/02/13	SCALE 1:85 000
REVIEW	-	2015/02/13	A3 REV 0

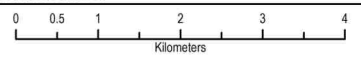
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LEGEND

- Place Names
- Medupi Power Station
- Matimba Power Station
- ROADS**
- Regional road
- Main road
- Secondary road
- Streets and other access
- Rail
- - - Non Perennial Rivers
- Perennial Rivers

RESOURCES/NOTES



PROJECT
MEDUPI FGD

TITLE
LOCALITY MAP

REFERENCE

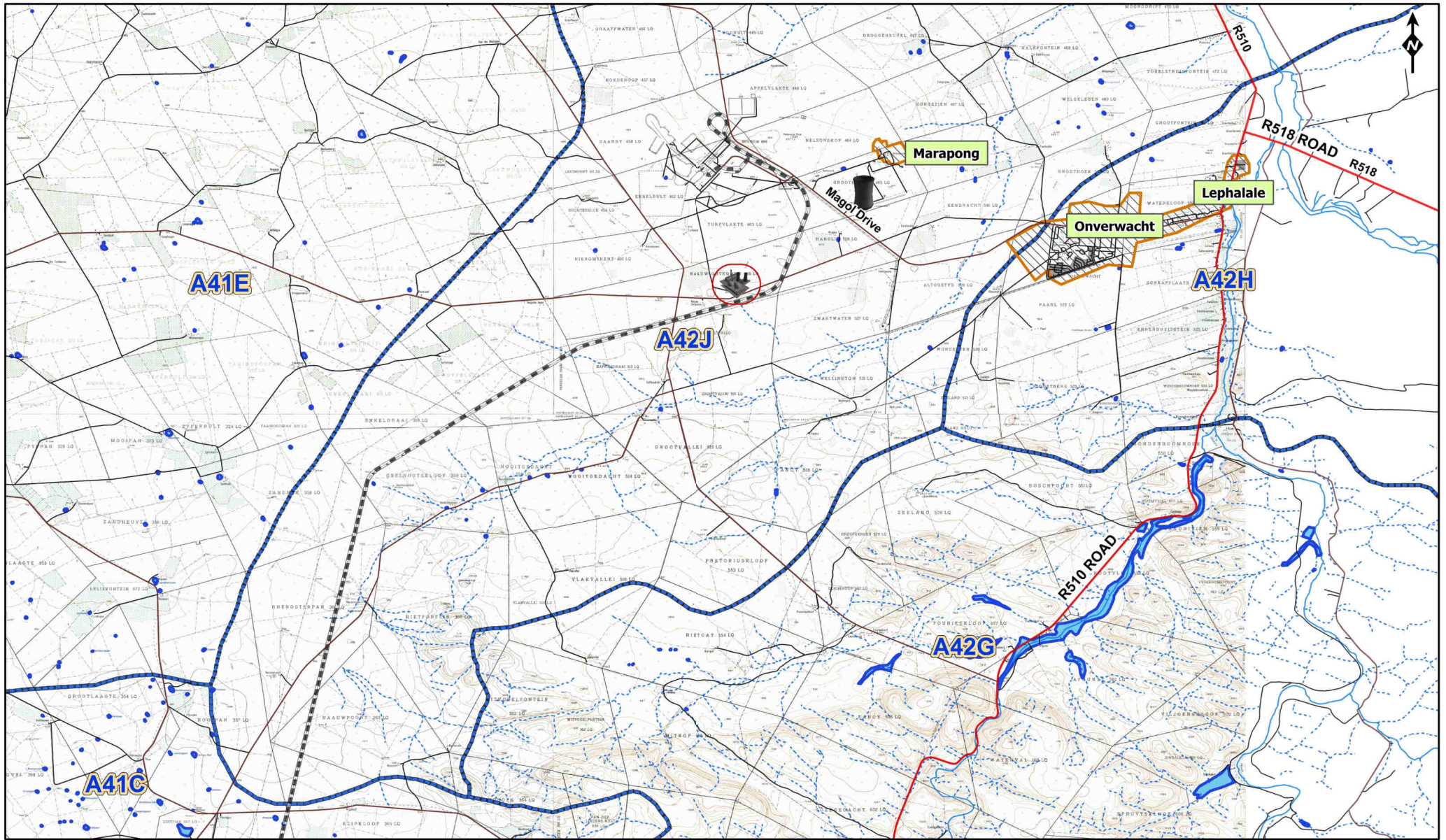
PROJECTION GCS WGS 1984

DRAFT



GIS	VR	23/04/2014	PROJECT No. 12949
CHECK	SM	23/04/2014	SCALE 1:65 000
REVIEW	-	23/04/2014	A3 REV 0

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LEGEND

-  Medupi Power Station
-  Matimba Power Station
-  Regional road
-  Main road
-  Secondary road
-  Streets and other access
-  Rail
-  Non Perennial Rivers
-  Perennial Rivers
-  Communities
-  Waterbodies
-  Quaternary Catchments

RESOURCESNOTES



REFERENCE

PROJECTION GCS WGS 1984

PROJECT

MEDUPI FGD

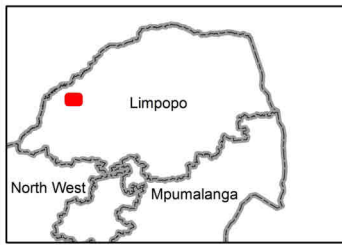
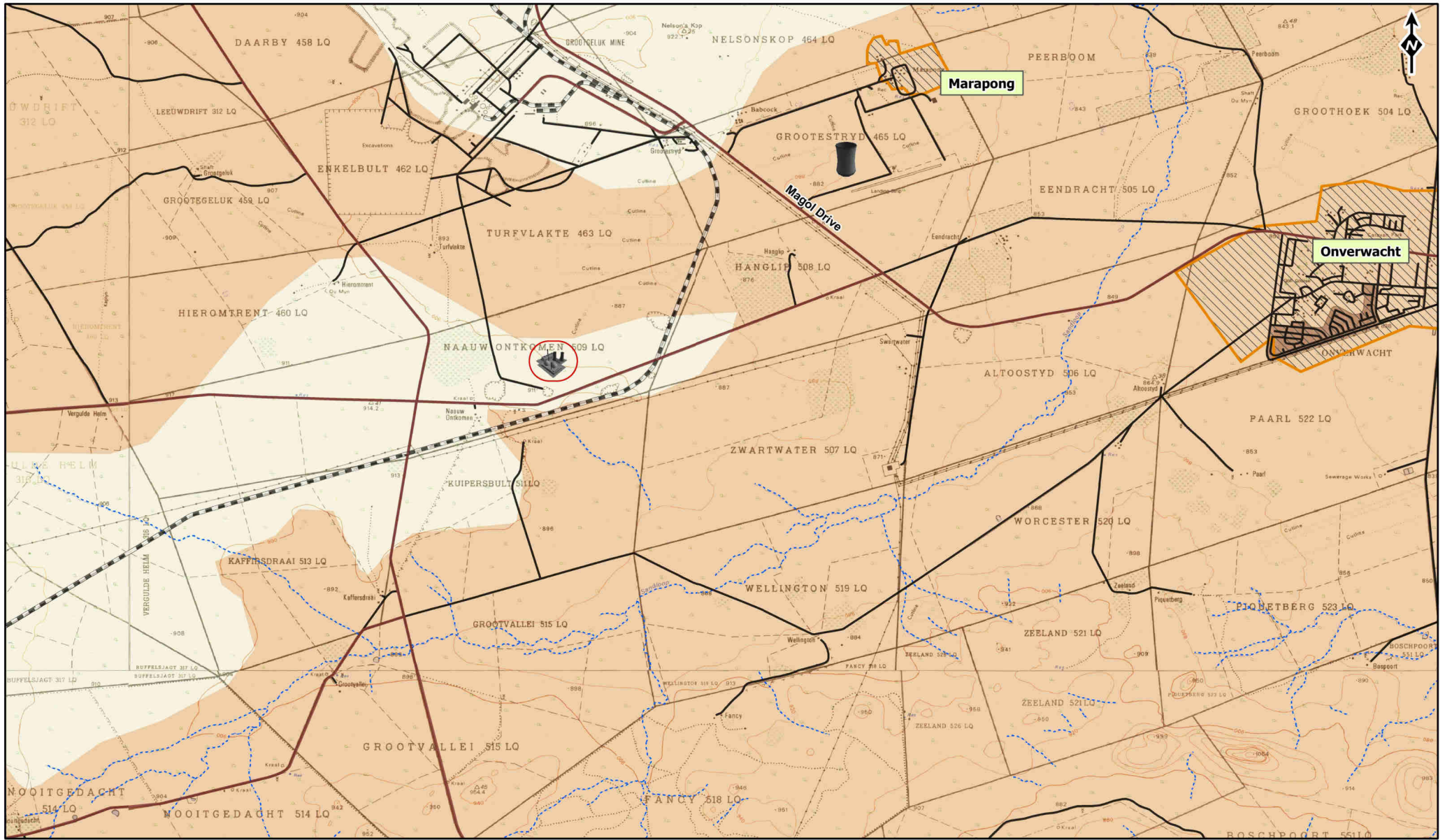
TITLE

QUARTERNARY CATCHMENTS MAP



GIS	VR	2015/02/13	PROJECT No. 12949
CHECK	SM	2015/02/13	SCALE 1:150 000
REVIEW	-	2015/02/13	A3 REV 0

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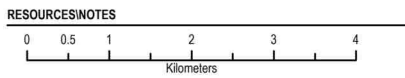


LEGEND

- Medupi Power Station
- Matimba Power Station
- Regional road
- Main road
- Secondary road
- Streets and other access
- Rail
- Communities

Soil Status (DWA, 2006)

- Red, massive or weakly structured soils with high base status (association of well drained Lixisols, Cambisols, Luvisols)
- Red, yellow and greyish excessively drained sandy soils (Arenosols)



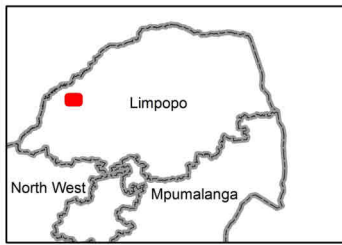
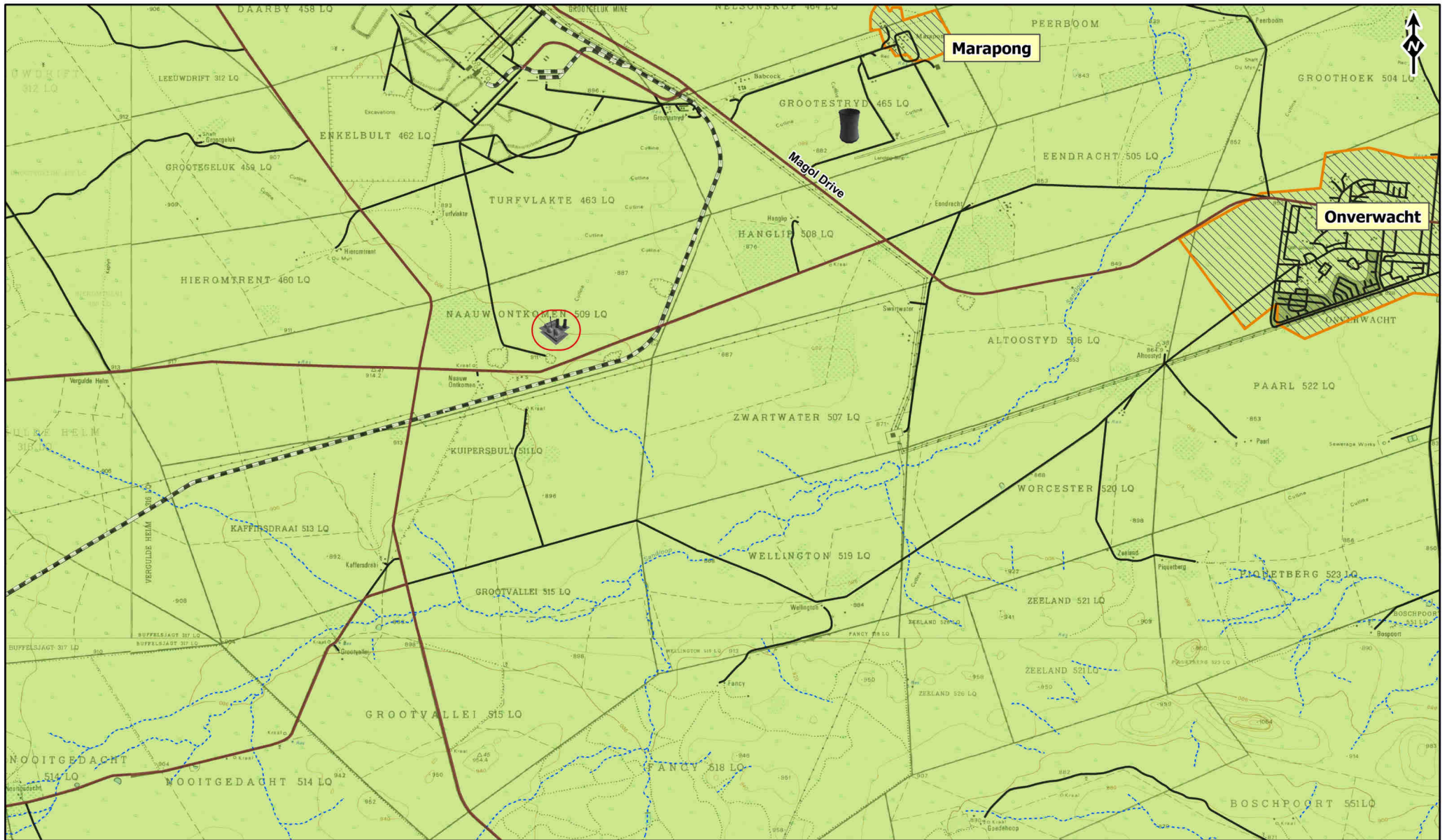
REFERENCE
 PROJECTION GCS WGS 1984

PROJECT
 MEDUPI FGD

TITLE
SOILS MAP

GIS	VR	2015/02/13	PROJECT No. 12949
CHECK	SM	2015/02/13	SCALE 1:85 000
REVIEW	-	2015/02/13	A3 REV 0

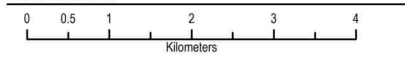
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LEGEND

- Medupi Power Station
- Matimba Power Station
- Regional road
- Main road
- Secondary road
- Streets and other access
- Rail
- Communities
- Ecosystem Status (SANBI, 2011)**
- Critically endangered
- Endangered
- Vulnerable
- Least threatened

RESOURCES/NOTES



REFERENCE

PROJECTION GCS WGS 1984

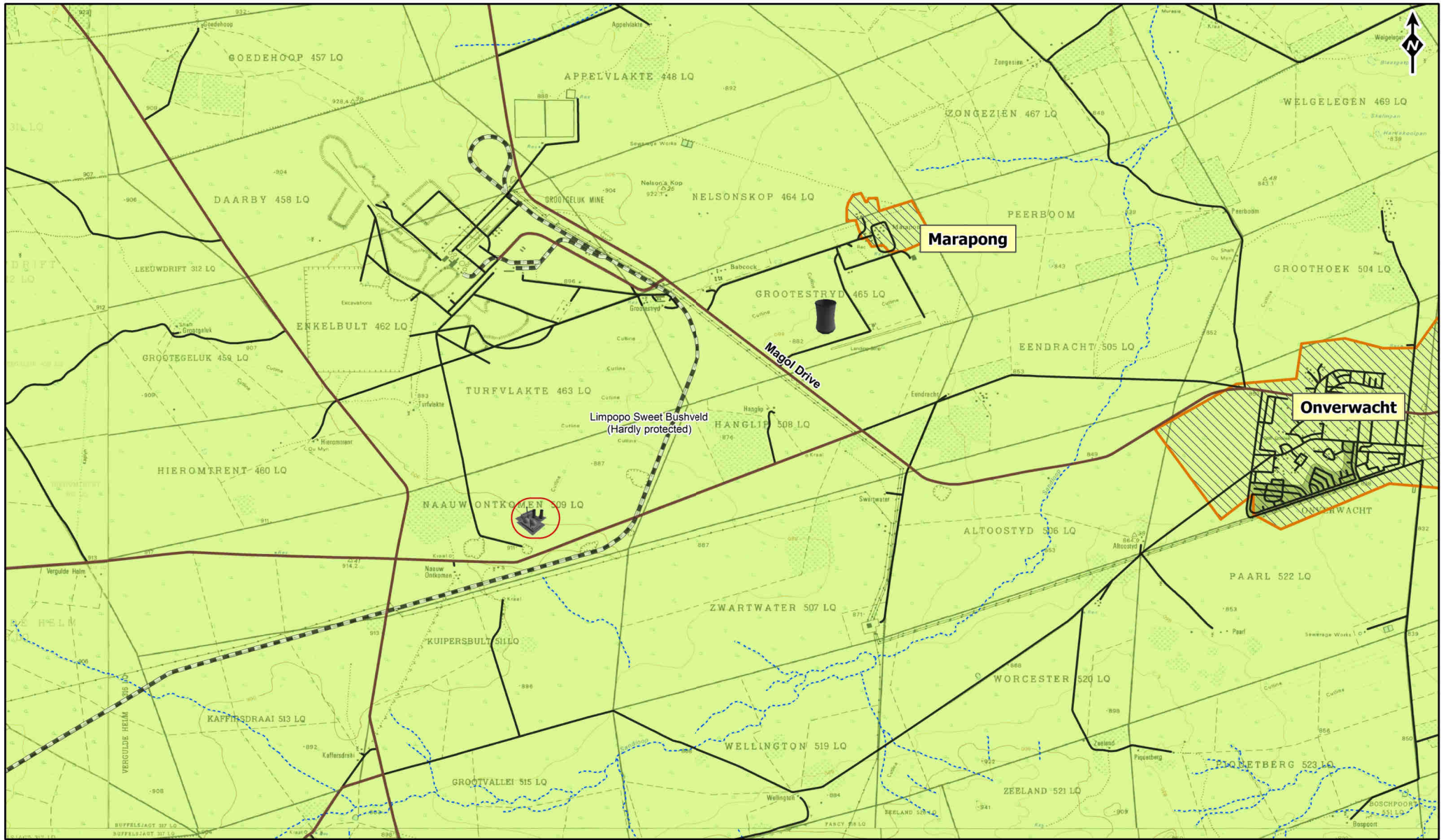
PROJECT
MEDUPI FGD

TITLE
VEGETATION STATUS MAP



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CHECK	SM	2015/02/13	SCALE 1:85 000
REVIEW	-	2015/02/13	A3 REV 0

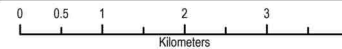
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LEGEND

- Medupi Power Station
- Matimba Power Station
- Regional road
- Main road
- Secondary road
- Streets and other access
- Rail
- Non Perennial Rivers
- Perennial Rivers
- Communities
- Vegetation Type (SANBI, 2006)**
- Western Sandy Bushveld, NP
- Limpopo Sweet Bushveld, NP

RESOURCESNOTES



REFERENCE

PROJECTION GCS WGS 1984

PROJECT

MEDUPI FGD

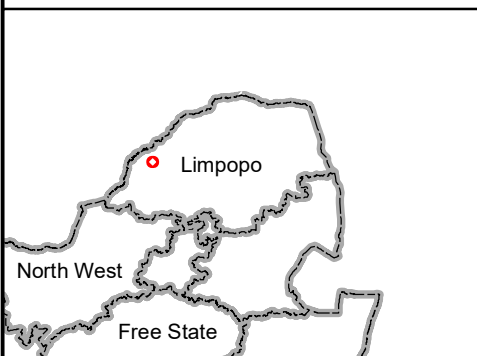
TITLE

VEGETATION TYPE MAP



GIS	VR	2015/02/13	PROJECT No. 12949
CHECK	SM	2015/02/13	SCALE 1:85 000
REVIEW	-	2015/02/13	A3 REV 0

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LEGEND

Corner Point Markers

RESOURCES/NOTES

REFERENCE

PROJECTION GCS WGS 1984

PROJECT

MEDUPI FGD

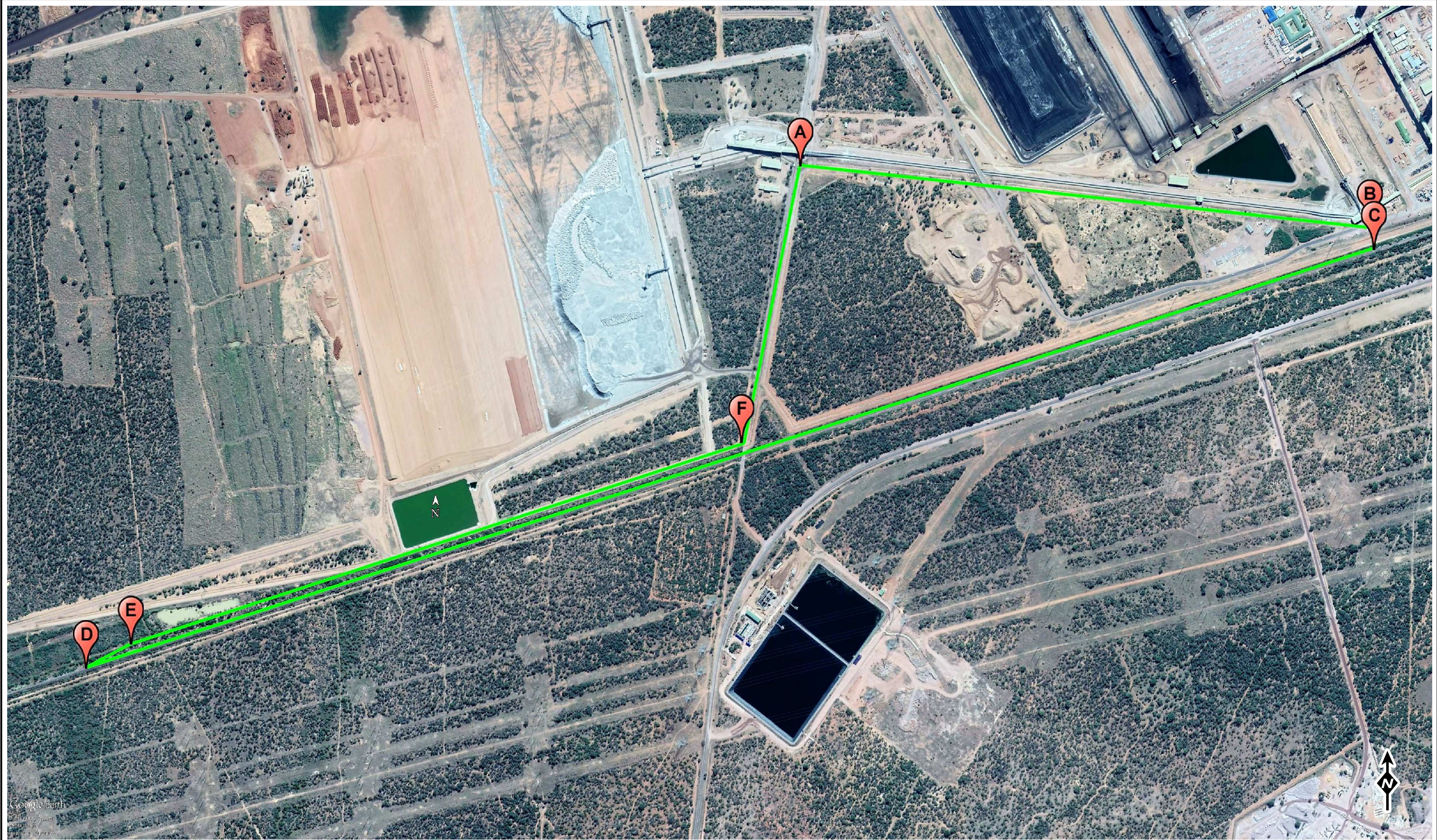
TITLE

**FGD COMPLEX AND RAILYARD
DEVELOPMENT FOOTPRINT AREA**



GIS	MV	22/05/2018	PROJECT No. 12949
CHECK	TM	22/05/2018	SCALE 1:15 000
REVIEW	-	22/05/2018	A3 REV 0

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LEGEND

Corner Point Markers

RESOURCES/NOTES

REFERENCE

PROJECTION GCS WGS 1984

PROJECT MEDUPI FGD

TITLE
RAILYARD DEVELOPMENT FOOTPRINT AREA



GIS	MV	22/05/2018	PROJECT No. 12949
CHECK	TM	22/05/2018	SCALE 1:15 000
REVIEW	-	22/05/2018	A3 REV 0

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Google earth
 2016/05/21 10:24:00
 © 2016 Google
 2016/05/21 10:24:00



LEGEND

Corner Point Markers

RESOURCES/NOTES

REFERENCE

PROJECTION GCS WGS 1984

PROJECT

MEDUPI FGD

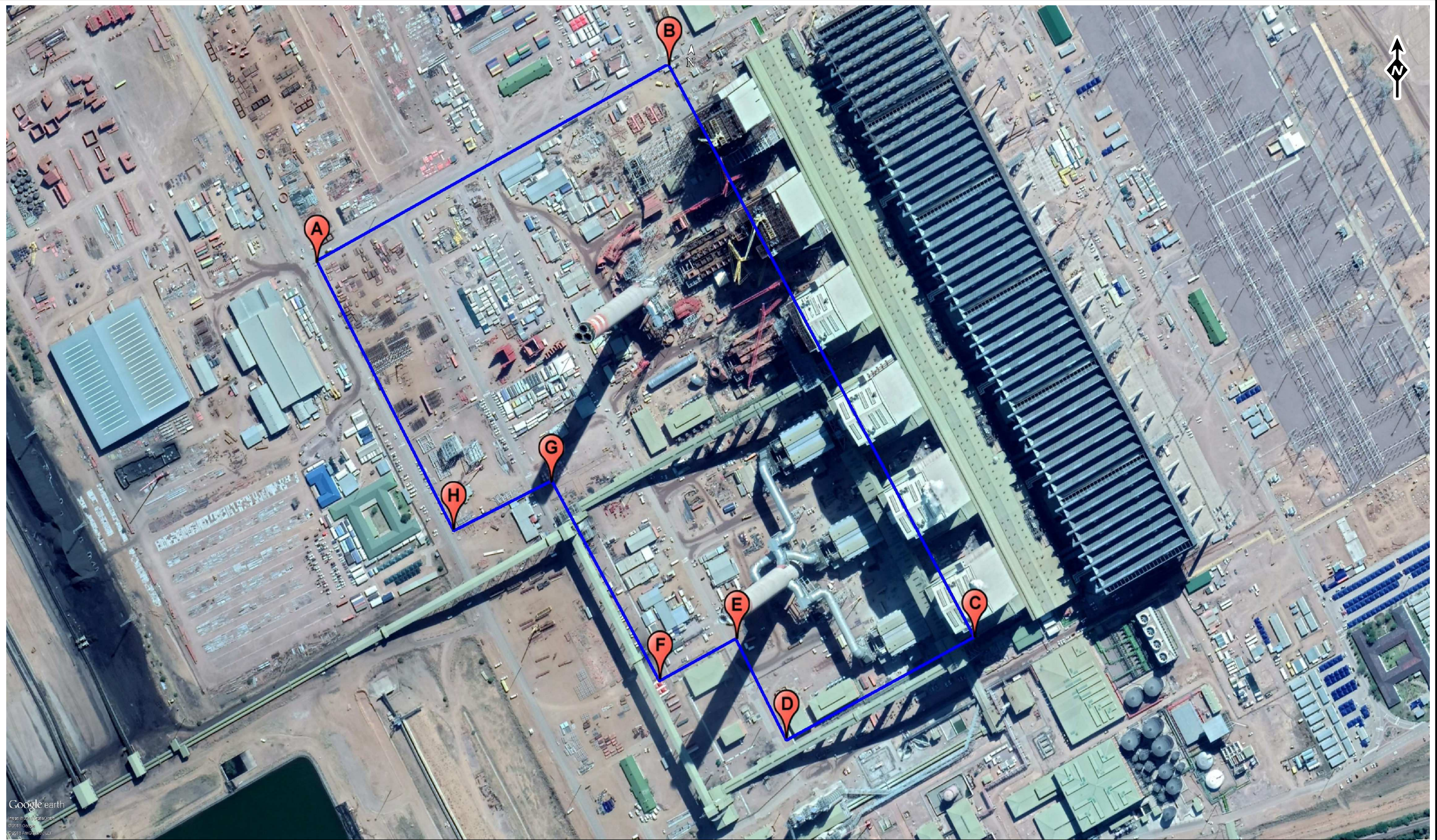
TITLE

CONVEYANCE DEVELOPMENT FOOTPRINT AREA



GIS	MV	21/05/2018	PROJECT No. 12949
CHECK	TM	21/05/2018	SCALE 1:15 000
REVIEW	-	21/05/2018	A3 REV 0

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Google earth
 17/05/2018 09:24:00
 27°21'10.00" S
 32°22'13.00" E



LEGEND

Corner Point Markers

RESOURCES/NOTES

REFERENCE

PROJECTION GCS WGS 1984

PROJECT

MEDUPI FGD

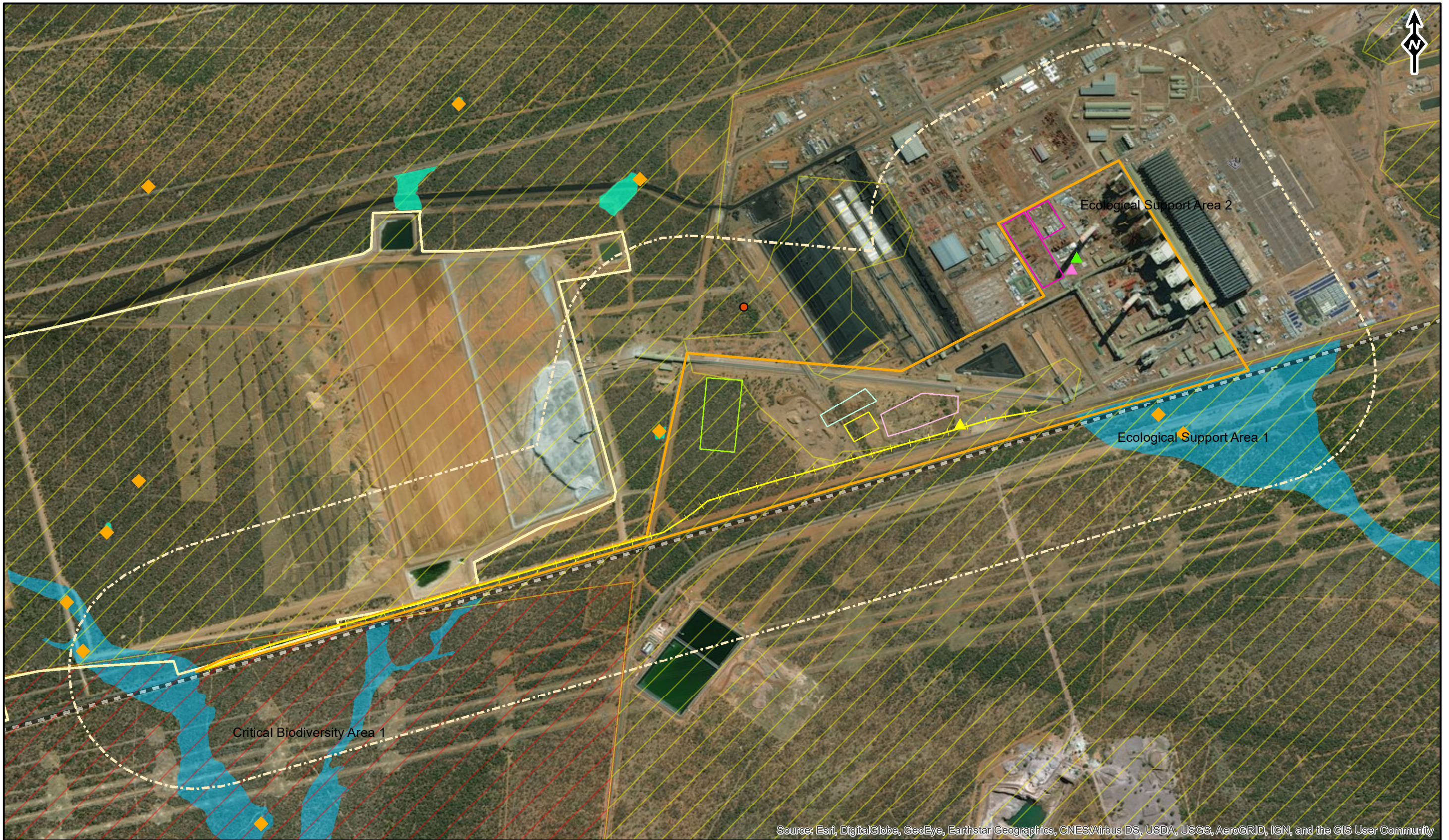
TITLE

MEDUPI FGD DEVELOPMENT FOOTPRINT AREA



GIS	MV	21/05/2018	PROJECT No. 12949
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REVIEW	-	21/05/2018	A3 REV 0

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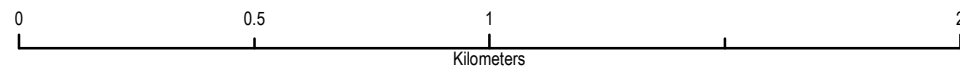


Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



LEGEND

- | | | | | |
|---------------------------|----------------------|------------------------------|----------------------|------------------------------|
| Medupi Power Station | Runoff_railway_line | Salt & Sludge Waste Facility | Pans | Critical Biodiversity Area 1 |
| Matimba Power Station | FGD 500m Buffer | PCD210 (Primary) | Wetlands | Ecological Support Area 1 |
| FGD Development Area | Diesel_Storage_Area1 | PCD (Secondary) | Bullfrog sites | |
| ADF Footprint Boundary | Diesel_Storage_Area2 | Limestone_Storage_Area | Possible Grave Sites | |
| Thabazimbi-Lephalale Rail | Diesel_Storage_Area3 | Gypsum_Storage_Area | | |



REFERENCE

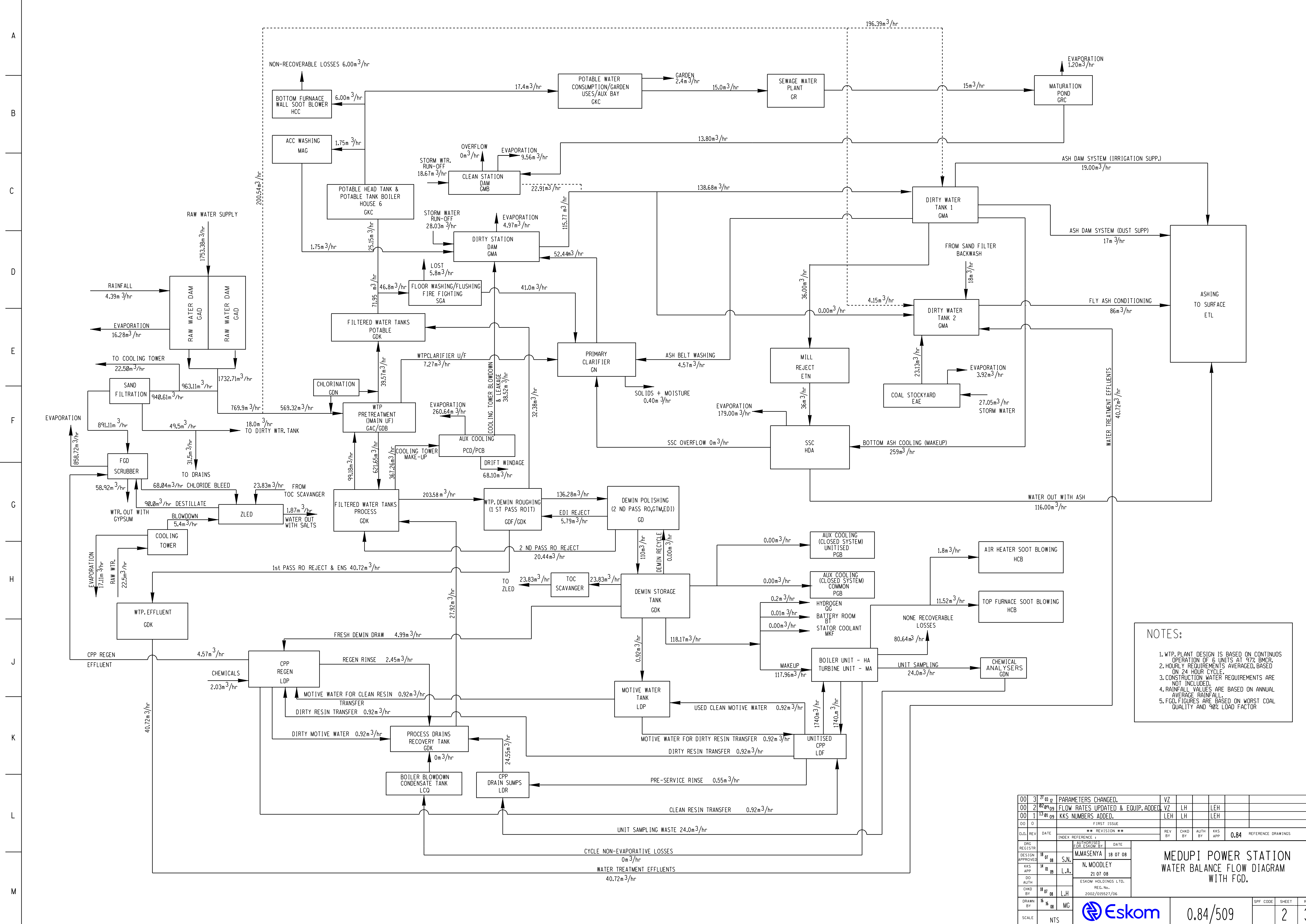
PROJECTION GCS WGS 1984

PROJECT
MEDUPI FGD RETROFIT PROJECT EIA

TITLE
ENVIRONMENTAL SENSITIVITY OVERLAY MAP



GIS	MV	22/05/2018	PROJECT No. 12949
CHECK	TM	22/05/2018	SCALE 1:16 053
REVIEW	-	22/05/2018	A3 REV 0



NOTES:

1. WTP PLANT DESIGN IS BASED ON CONTINUOUS OPERATION OF 6 UNITS AT 97% BMCR.
2. HOURLY REQUIREMENTS AVERAGED, BASED ON 24 HOUR CYCLE.
3. CONSTRUCTION WATER REQUIREMENTS ARE NOT INCLUDED.
4. RAINFALL VALUES ARE BASED ON ANNUAL AVERAGE RAINFALL.
5. FGD FIGURES ARE BASED ON WORST COAL QUALITY AND 90% LOAD FACTOR.

00	3	27	02	12	PARAMETERS CHANGED.	VZ							
00	2	26	09	09	FLOW RATES UPDATED & EQUIP. ADDED.	LEH	LH		LEH				
00	1	13	01	09	KKS NUMBERS ADDED.	LEH	LH		LEH				
00	0				FIRST ISSUE								
** REVISION **													
D.O.	REV	DATE	INDEX REFERENCE		REV BY	CHKD BY	AUTH BY	KKS APP	0.84	REFERENCE DRAWINGS			
DRG REGISTR													
DESIGN APPROVED		18	07	08									
KKS APP		21	07	08									
DD		21	07	08									
CHKD BY		18	07	08									
SCALE		18	08	08									

AUTHORIZED BY: M. MOODLEY
 DATE: 18 07 08
 N. MOODLEY
 21 07 08
 ESKOM HOLDINGS LTD.
 REG. NO. 2002/015527/06

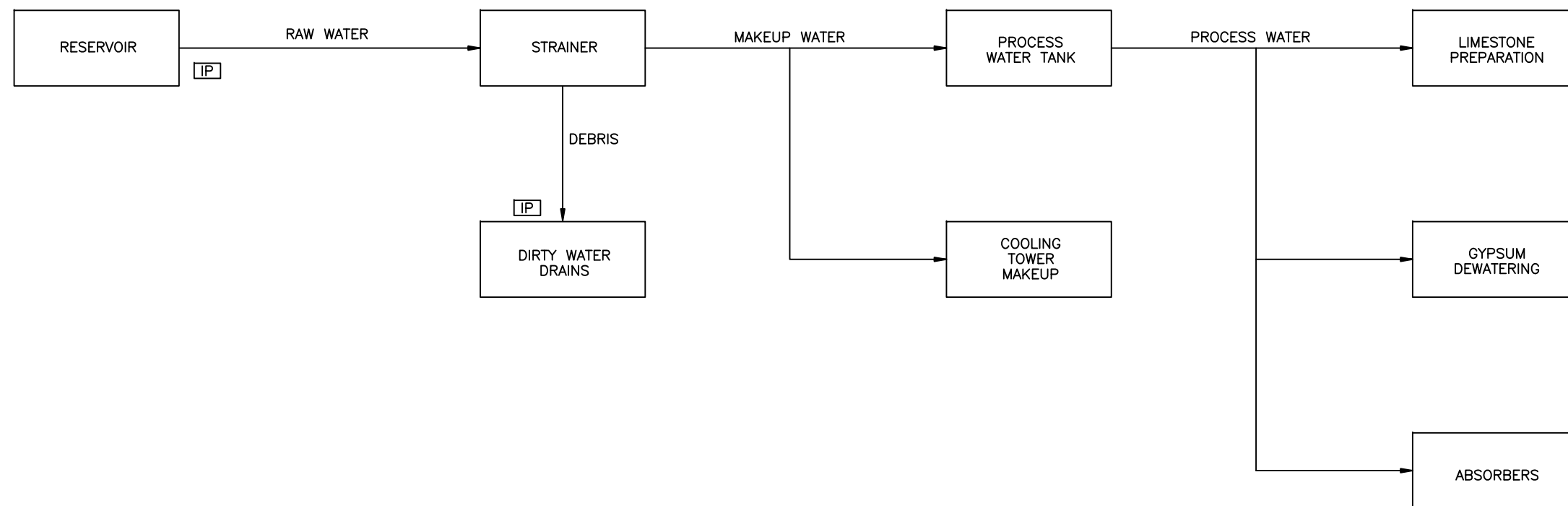
MEDUPI POWER STATION
WATER BALANCE FLOW DIAGRAM
WITH FGD.

0.84/509

SHEET 2 OF 3

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22

A B C D E F G H J K L M N P Q R



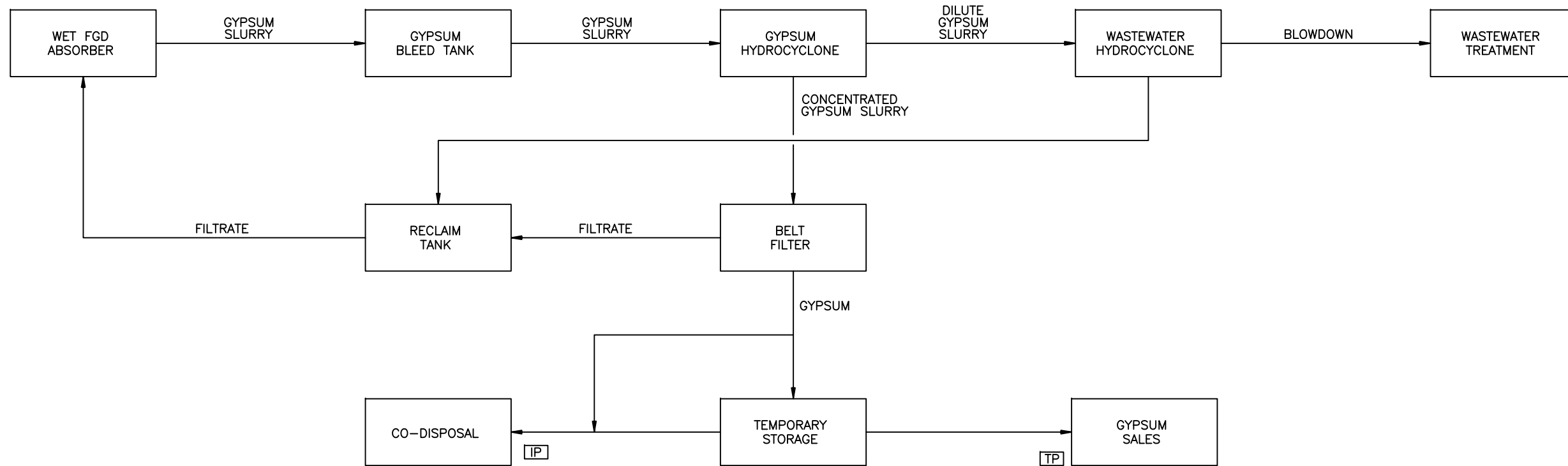
IP - INTERFACE POINT WITH EXISTING PLANT
 TP - TERMINAL POINT EXTERNAL TO FGD RETROFIT PROJECT

NOT TO BE USED FOR CONSTRUCTION
 THE DISTRIBUTION AND USE OF THE NATIVE FORMAT CAD FILE OF THIS DRAWING IS UNCONTROLLED. THE USER SHALL VERIFY TRACEABILITY OF THIS DRAWING TO THE LATEST CONTROLLED VERSION.

REV	DATE	BY	CHKD BY	APP	DESCRIPTION
0	08/27/14				ISSUED FOR EIA

178771-SK-M0009 MEDUPI FGD RETROFIT PROJECT FGD MAKEUP WATER FLOW DIAGRAM (EIA)	SCE SMA	REV BY: [Signature] DATE: [Date]	REV BY: [Signature] DATE: [Date]
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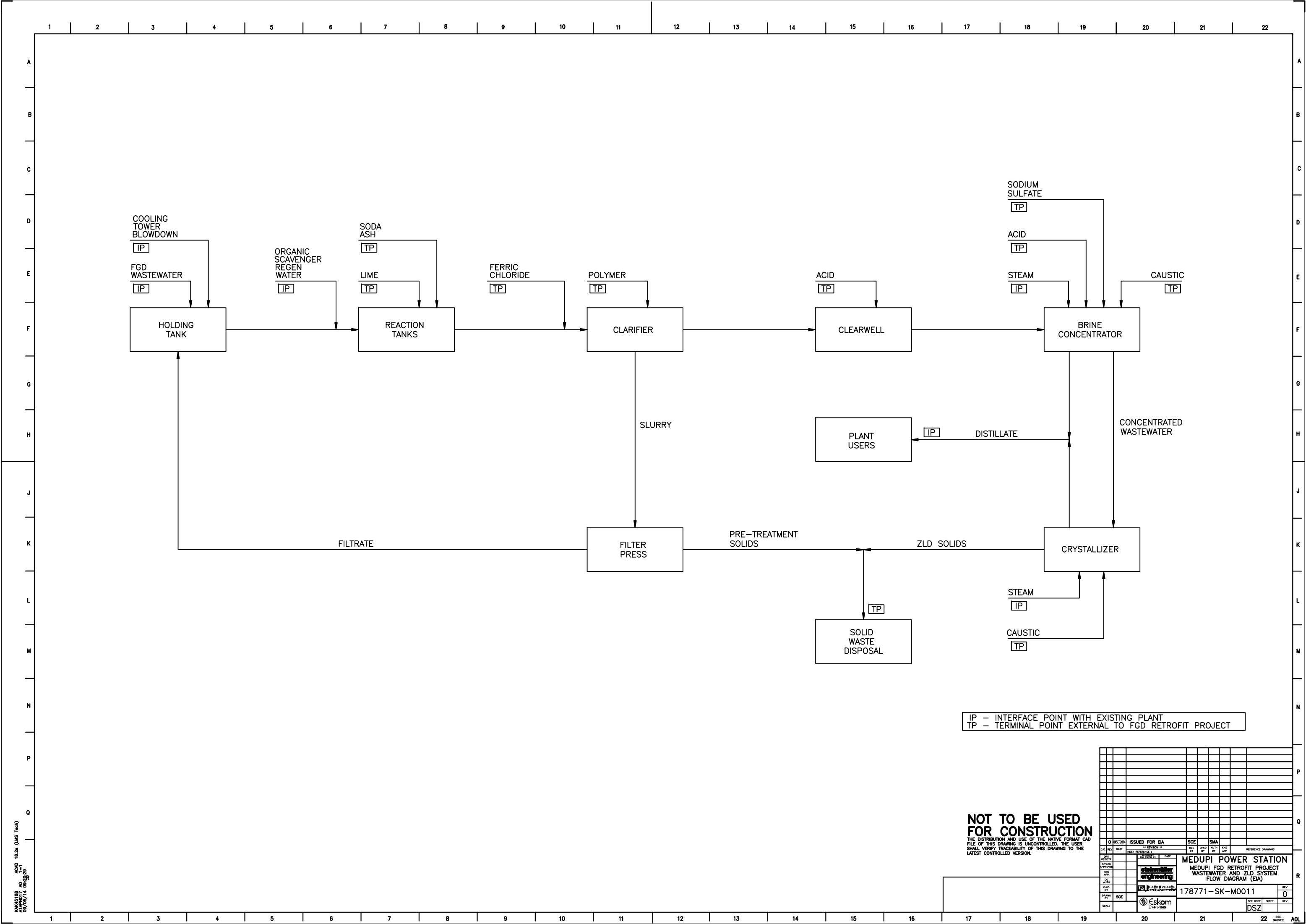


IP - INTERFACE POINT WITH EXISTING PLANT
 TP - TERMINAL POINT EXTERNAL TO FGD RETROFIT PROJECT

NOT TO BE USED FOR CONSTRUCTION
 THE DISTRIBUTION AND USE OF THE NATIVE FORMAT CAD FILE OF THIS DRAWING IS UNCONTROLLED. THE USER SHALL VERIFY TRACEABILITY OF THIS DRAWING TO THE LATEST CONTROLLED VERSION.

0		08/27/14	ISSUED FOR EIA	SCE	SMA		
NO.	REV	DATE	DESCRIPTION	BY	CHECKED BY	DATE	REFERENCE DRAWINGS
DESIGN							
APP							
SCALE							
Eskom			Black & Veatch		Medupi FGD Retrofit Project		REV
178771-SK-M0010			DSZ		0		0

182a (LMS Tech)
 11-11
 09/05/14 08:38:48



IP - INTERFACE POINT WITH EXISTING PLANT
 TP - TERMINAL POINT EXTERNAL TO FGD RETROFIT PROJECT

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ISSUED FOR EIA		SCE	SMA	REV	DATE
0	08/27/14				
MEDUPI POWER STATION MEDUPI FGD RETROFIT PROJECT WASTEWATER AND ZLD SYSTEM FLOW DIAGRAM (EIA)					
178771-SK-M0011				REV	DATE
				0	
DSZ				REV	DATE

18.2a (LMS Tech)
 09/05/14 08:30:28
 1-11

**Appendix F-1: Proof of Site Notice and
Advertisement**

Appendix F-1 A: Scoping Phase

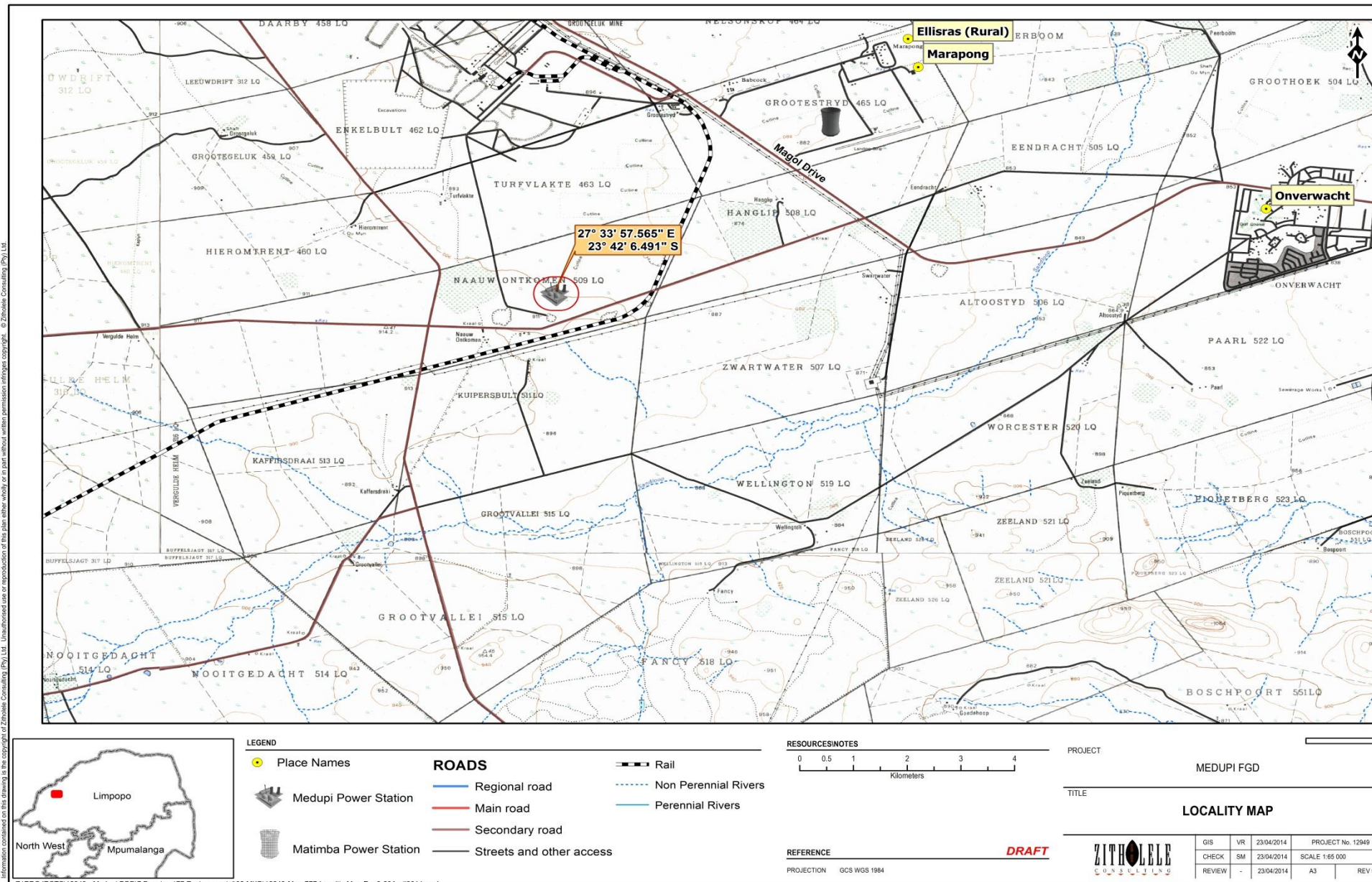
INTEGRATED ENVIRONMENTAL AUTHORISATION (Environmental Impact Assessment and Waste Management License Application) for the proposed Medupi Power Station Flue Gas Desulphurisation Project

Table 1: Site Notices placed at development site (Medupi Power Station)

Description of the location of notice & GPS Coordinates	Picture / Photo
<p>Property fence of Medupi Power Station</p> <p>GPS: S 23°41'40.39" E027°34'28.36"</p>	

NOTICE OF AN INTEGRATED ENVIRONMENTAL IMPACT ASSESSMENT AND WATER USE LICENSE APPLICATION FOR THE PROPOSED RETROFITTING FLUE GAS DESULPHURISATION AT MEDUPI POWER STATION.

(DEA Ref. No.: 14/12/16/3/3/3/110)



Notice is hereby given, in terms of the National Environmental Management Act, (Act No 107 of 1998) and Government Notice R. 543 - 546 of June 2010, of Eskom's intent to carry out the following listed activity that requires environmental authorisation:

Proposed proposed Retrofitting Flue Gas Desulphurisation (FGD) at Medupi Power Station

- Medupi Power Station is undertaking an integrated environmental impact assessment process for the retrofitting of a flue gas desulphurisation (FGD) system to the current power station infrastructure. The proposed FGD will require authorisation under the National Environmental Management Act (Act 109 of 1998) as amended, the National Environmental Management: Waste Act (Act 59 of 2008) as amended and the National Water Act (Act 36 of 1998) as amended.

The purpose of this assessment process is to identify and evaluate issues of concern and potential environmental and social impacts, and propose feasible mitigation measures against such impacts.

Key activities will require, among others:

- Storage, handling and disposal of wastes; and
- Treatment of waste water within a Zero Liquid Discharge system.

PUBLIC COMMENT ENCOURAGED

Interested and/or Affected Parties (I&APs) are invited to participate by providing comments and raising any issues of concern they may have

To register as an I&AP, and to receive a copy of the Background Information Document, please contact:

Nicolene Venter or Bongani Dhlamini of Zitholele Consulting (Pty) Ltd, P O Box 6002, Halfway House, 1685
Tel: (011) 207 2060, Fax: 086-676-9950 or Email: publicprocess@zitholele.co.za

This assessment is being conducted on behalf of Eskom Holdings SOC Limited



Environmental Impact Assessment and Waste Management License Application for the proposed Medupi Power Station Flue Gas Desulphurisation

DEA Ref: 14/12/16/3/3/3/110

UPDATED BACKGROUND INFORMATION DOCUMENT

March 2015

This updated Background Information Document (BID) provides Interested and Affected Parties (I&APs) with information on the Environmental Impact Assessment (EIA), Waste Management License Application (WMLA) and Water Use License Application (WULA) being undertaken by Zitholele Consulting for the proposed Flue Gas Desulphurization retrofitting technology at Medupi Power Station. This document is intended to provide Interested and Affected Parties (I&APs) with:

- A concise overview of the proposed Medupi Power Station Flue Gas Desulfurization (FGD) Retrofit Project;
- Manner in which I&APs can become involved and provide input into the Environmental Authorisation (EA) Process; and
- Status quo of the various EA Processes including the EIA, WMLA and WULA Processes.

This updated BID also provides I&APs with the opportunity to:

- Register as a stakeholder in the public participation process; and
- Submit comment on and/or raise issues of concerns regarding the proposed project.

The purpose of an EIA is to identify and evaluate potential impacts, to recommend measures to avoid or reduce negative impacts and to enhance positive impacts. The licensing of waste management activities through a WMLA is the primary means by which these activities are regulated. The decision-making authority for both the EIA and WML Application is the Department of Environmental Affairs (DEA). The licensing authority for the WULA is the Department of Water and Sanitation (DWS)

Should you register as a stakeholder, you will be included in the stakeholder database and receive further documents for review and comment. **To raise your concerns and to submit comments, complete the enclosed registration sheet, write a letter, call or email the public participation office (contact details provided on the registration sheet included).**

BACKGROUND

Eskom Holdings SOC Ltd (hereinafter Eskom), South Africa's power utility, is tasked with providing electricity in an efficient and sustainable manner. The power utility supplies the majority of South Africa's electricity as well as approximately 45% of the electricity used in Africa.

The activities carried out as part of the electricity generation and distribution processes often generate wastes in various forms (e.g. exhaust flue gases from coal fuelled power stations). The proposed Medupi Power Station Flue Gas Desulphurisation (FDG) Retrofit Project is intended to remove up to 95% of the Sulphur Dioxide (SO₂) from the exhaust flue gases released at the Medupi Power Station.

The proposed Medupi Power Station FGD Project will consist of the retrofit of FGD technology onto six (6) x 800 megawatt (MW) coal fired steam electric generating units. The proposed FGD Project will also entail the installation of a wet limestone open spray tower FGD system to each of the operating units (absorber). It is anticipated that the proposed FGD will be fully operational within 6 years from the date of commercial operation of the first generating unit. The footprint of the proposed FGD infrastructure will fall within the borders of the Limpopo Province, with the Medupi Power Generation Precinct located approximately 15km west of the town of Lephalale.

NEED FOR THE PROPOSED PROJECT

One of the by-products that are generated by the burning of pulverized coal includes flue gases. In order to comply with the provisions of the National Ambient Air Quality Standards published in Government Gazette 32816 (dated 24 December 2009), a significant reduction in SO₂ emissions is required.

Environmental Authorisation have been granted for the proposed Medupi Power Station and associated infrastructures. However, the current project will focus on the FGD retrofit which necessitates additional infrastructure within the Medupi Power Station footprint, and possibly outside of the current footprint.

The proposed FGD will essentially function to abate the gaseous emissions, specifically sulphur dioxide emissions, which are released by the Power Station. Once the FGD has been commissioned, Medupi Power Station will be able to comply with the emission standards.

It is anticipated that the proposed FGD facility (excluding any additional waste disposal facilities) will have a footprint of between 0.5 and 1 hectare, falling within the current Power Station footprint only. The facility will include associated infrastructure components which may consist of:

- Storage/stockpiling, handling and disposal of wastes: gypsum, chemical salts and chemical sludge.
- Storage/stockpiling and handling of limestone.
- Treatment of waste water within a Zero Liquid Discharge (ZLD) system.
- Services including electricity, drainage (incl. dirty water dam) and water supply in the form of power lines, pipelines, and associated infrastructure.
- Access and maintenance roads where applicable.
- Rail siding and associated infrastructure.
- Process and electrical buildings.

All of the abovementioned components, excluding potential waste disposal facilities, will be constructed and operated within the existing Medupi footprint. The Power Station was designed to be "Wet FGD ready" and the FGD infrastructure is accommodated on site.

The waste disposal facility required for the FGD waste streams was initially planned for on-site, however, the required waste disposal facilities are currently under investigation and may be located outside of the Medupi Power Station footprint.

Zitholele Consulting has been appointed by Eskom to carry out the following Environmental Authorisation (EA) Processes for the proposed FGD retrofit project:

- Environmental Impact Assessment (EIA);
- Waste Management License Application (WMLA); and
- Water Use License Application (WULA).
- Subsequent to the initiation of the above processes, the project team identified additional assessments that need to be included for consideration within the environmental authorisation application. Therefore, the following will also form part of the project scope of work:
- Assessment of the aspects and impacts associated with the construction of a railway yard at the Medupi Power Station. Limestone is envisioned to be transported by rail to the Medupi Power Station. The rail yard will be located predominantly within the existing Medupi Power Station footprint.
- Investigation of the feasibility of the alternatives to dispose of the FGD wastes at an on-site or off-site facility/ies. This includes engagement with both the Department of Environmental Affairs and the Department of Water and Sanitation.

The waste classification of the various waste streams has informed the selection of feasible alternatives. The selection of a preferred disposal method will rely on the outcome of discussions with the DEA Waste Directorate.

- Site selection process for one or more Waste Disposal Facilities at which to dispose the wastes that will be generated by the FGD operation. This will entail the identification of, at most, three (3) site alternatives. Each alternative will be assessed by a range of specialists and they will provide sensitivity mapping of the alternative sites. Specialists will workshop the sensitivity map with the client and with Zitholele Consulting to determine an alternative with impacts of the least significance, which are most likely to respond to mitigation and management.
- Conceptual design of the required Waste Disposal Facilities will need to be carried out by appropriate civil and structural engineers. The conceptual designs will be strongly informed and directed by the specialist team working on this project. The conceptual design will need to meet with the requirements of the DEA Waste Directorate as well as with those of the DWS.

Wet FGD as preferred Technology

The preferred technology, Wet FGD, was assessed and selected as an independent investigation to the Environmental Authorisation Process. At the onset of the EA Process, the consultant was advised by Eskom to utilize Wet FGD for the environmental assessment, without allowing for an assessment of alternatives.

The Wet FGD technology was identified as the preferred technology for Medupi Power Station, by means of a techno-economical study, during the design of the Power Station. This was essential in order to ensure that the Power Station was designed to be "Wet FGD ready". This design allows for the spatial requirements of Wet FGD within the Power Station layout. The design negates any requirement for significant changes to the existing infrastructure to accommodate the Wet FGD retrofit.

As an appendix to the Final Scoping Report, a Technology Selection Study Report has been made available to the public for review. While the EA process does not investigate alternatives to Wet FGD, the process will report on the impacts of the Wet FGD on the receiving environment.

Gypsum disposal versus commercial value

It should be noted that the potential for commercial sale of industrial gypsum from the FGD process has been investigated by Eskom for both the Kusile Power Station and the Medupi Power Station. Market research has indicated that there is a limited opportunity for the reuse of industrial quality gypsum to local users. The quality of the limestone to be used in the Medupi FGD process is unknown, and therefore the gypsum quality has not yet been determined. Limestone sourcing as well as the gypsum market offtake is being investigated by Eskom in parallel and the outcome of this investigation will determine the opportunity for the sale of gypsum. While the marketability of Medupi gypsum may improve over time, the current situation requires that most, if not all, Medupi's gypsum will require disposal. It is in Eskom's best interests to continue exploring alternatives to gypsum disposal. However, at this stage, it is important that the Environmental Authorisation Process consider the worst case scenario when addressing the requirements for the possible disposal of gypsum at an appropriately engineered disposal facility.

NATIONAL ENVIRONMENTAL MANAGEMENT ACT (NEMA)

The proposed FGD facility and associated infrastructure require an Environmental Impact Assessment (EIA) in terms of the NEMA and the amended EIA regulations (Government Notice R.543 to 546, published in June 2010). The Department of Environmental Affairs (DEA) has been identified as the Competent Authority.

As per Government Notice R.543 of June 2010, Chapter 2, Regulation 6, the competent authority must consult with every government organ that administers a law relating to a matter affecting the environment relevant to that application for an environmental authorisation when considering an application.

Therefore, the DWS, the Limpopo Department of Economic Development, Environment and Tourism, Waterberg District Municipality, Roads Agency Limpopo and the Lephalale Local Municipality are commenting authorities in this process.

This process includes Scoping and Environmental Impact Report (S&EIR) Phases, which are applicable to all projects likely to have significant environmental impacts due to their nature or extent, activities associated with potentially high levels of environmental degradation, or activities for which the impacts cannot be easily predicted.

NATIONAL ENVIRONMENTAL MANAGEMENT ACT (NEMA) (CONTINUED)

In terms of Government Notice R.545 of 2010, the following listed activities require that a S&EIR be undertaken and are applicable to this proposed project:

- **Activity 3:** The construction of facilities or infrastructure for the storage, or for the storage and handling, of lime and

limestone as an input into the WWTP and FGD process, respectively. The lime and limestone will be stored at a volume of more than 500 cubic meters at any one time. Storage of waste materials from the FGD process will similarly require authorization under Activity 3.

- **Activity 6:** The construction of facilities or infrastructure for the bulk transportation of waste materials using conveyors with a throughput capacity of more than 50 tons per day.
- **Activity 11:** The construction of a rail yard for purposes of transport of products to the Power Station and waste products from the Power Station.
- **Activity 15:** The physical alteration of undeveloped, vacant, or derelict land for purposes of a rail yard and associated infrastructure.



NATIONAL ENVIRONMENTAL MANAGEMENT WASTE ACT (NEM:WA)

With the proclamation of the National Environmental Management Waste Act (NEM: WA), No 59 of 2008, all waste related activities previously listed under the National Environmental Management Act (NEMA), No 107 of 1998 have been repealed and are now listed under the NEM:WA.

In terms of Government Notice R.718, **Category B** the following activities require authorisation:

Activity 1: The storage, including temporary storage, of hazardous waste in lagoons. This activity will be triggered should the sludge and/or salts require separate disposal and not be co-disposed of at the Ash Disposal Facility.

Activity 5: The treatment of sludge in lagoons. This activity will only be triggered should the preferred option of co-disposal not be supported by the waste classification assessment.

Activity 7: The disposal of any quantity of gypsum to the existing Ash Disposal Facility.

Activity 10: The construction of facilities for activities listed in this schedule.

In terms of Government Notice R.718, **Category C** the following activities require authorisation:

Activity 2: The storage, including temporary storage, of hazardous waste such as gypsum, salts and sludge from the FGD process prior to disposal on or off-site. The combined storage of hazardous waste will be more than 35m³ at any one time.

As described in the Regulations “a person who wishes to commence, undertake or conduct an activity listed under this Category, must conduct an environmental impact assessment process, as stipulated in the environmental impact assessment regulations made under Section 24(5) of the NEMA as part of a waste management license application”.

Therefore the proposed development requires the submission of a Waste Management License application as well as a Scoping and Environmental Impact Report (S&EIR) to the DEA.

WATER USE LICENSE APPLICATION (WULA)

The preferred technology was identified by the client prior to the initiation of the EA process, and was carried out through a technology feasibility study. The EA processes therefore address the project with Wet FGD as the preferred technology alternative. The water required for the operation of Wet FGD will be applied for within a Water Use License Application. The client has been engaging with the DWS in this regard. The DWS, as the custodian of the national water resources, has indicated that allocation of water can be supplied to Medupi Power Station from the Mokoilo Crocodile Water Augmentation Project (MCWAP)

ENVIRONMENTAL IMPACT ASSESSMENT (EIA)

An Environmental Impact Assessment (EIA) is a planning and decision-making tool undertaken in terms of the National Environmental Management Act (NEMA), Act No 107 of 1998, as amended. An EIA is a management tool that helps to identify and mitigate any potential impacts that a new development might generate on the receiving environment. The EIA takes place prior to the construction of the development.

TECHNICAL AND PUBLIC PARTICIPATION PROCESSES

An EIA has two parallel and integrated processes namely, a **technical** and a **public participation** process.

The **technical process** investigates "hard" information: facts based on scientific and technical studies, statistics or technical data. It identifies the potential negative and positive consequences of a proposed project or development at an early stage and recommends ways to enhance positive impacts and to avoid, reduce or mitigate negative impacts.

The EIA regulations require that an Environmental Management Programme (EMPr) be developed. The EMPr provides recommendations on how to operate and implement the project. The provisions of the EMPr, once approved by the competent authority, are legally binding on the developer and its contractors.

Public participation ensures that the EIA process is fair, open and transparent. It also provides stakeholders with sufficient information and gives them opportunity to contribute to the process by reviewing and commenting on the information.

The public participation process is designed to provide sufficient and accessible information to Interested and Affected Parties (I&APs) in an objective manner to assist them to:

- Raise issues of concern and make suggestions for alternatives and enhanced benefits;
- Contribute local knowledge;
- Verify that their issues have been captured and considered by the technical investigations;
- Comment on the findings of the EIA.

PHASES IN AN EIA

SCOPING PHASE

The **first phase** of an EIA is the Scoping Phase, which is conducted to gain an understanding of the potential environmental issues that are relevant to the project and to determine where further information is required, in the form of specialist studies/investigations.

The Scoping Report and Plan of Study for the EIA are submitted to the Department of Environmental Affairs (DEA) for review and approval of the proposed approach to the detailed investigation required in the next phase.

Key activities involved in the Scoping Phase include:

- Meetings with authorities to agree on process and study requirements;

- Initial public and landowner notification;
- Distribution of a DSR, including CRR for public comment;
- Convening a stakeholder meeting for the Scoping Phase;
- Distribution of the FSR for comments;
- Submission of a Final Scoping Report (FSR), including the Plan of Study for the EIA to the DEA;
- Approval of the FSR and supporting documents by DEA, at which time the project moves into the Impact Assessment Phase.

IMPACT ASSESSMENT PHASE

The **second phase** is the Impact Assessment Phase, which entails undertaking various specialist studies and compiling a Draft EIR.

As part of the assessment, an Environmental Management Programme (EMPr) will be submitted to the Department of Environmental Affairs (DEA) for their approval. By following the EMPr, Eskom and its contractors will ensure compliance to environmental regulations during the planning, construction, operation and decommissioning (if applicable) phases.

The specialist studies that have already been confirmed for the Impact Assessment Phase are:

- Waste Classification;
- Social Impact Assessment;
- Ecological Assessment for the rail yard area;
- Air Quality Assessment.

Additional assessments will be required for purposes of the site selection for potential waste disposal facilities. These studies will be confirmed as soon as the consultant has been appointed for this additional scope of work.

Key activities in the Impact Assessment Phase will include:

- Specialist studies focused on outcomes of the Scoping Phase and issues raised by stakeholders;
- Progress feedback to stakeholders;
- Compilation of a Draft EIR and EMPr indicating the potential positive and negative impacts and measures to enhance positive impacts and to reduce or avoid negative impacts;
- Environmental Impact Statement, highlighting the preferred alternative/s and reasons therefor;
- Distribution of the Draft EIR and EMPr, including Issues and Responses Report, to the public for comment;
- A stakeholder meeting in the project area to present a summary of the findings of the EIR for stakeholder comment;
- Distribution of the Final EIR and EMPr for comment; and
- Submission of the Final EIR and EMPr for DEA decision making.

DECISION-MAKING (ENVIRONMENTAL AUTHORISATION)

A decision on the applications for Environmental Authorisation, Waste Management License and Water Use License will be received from the relevant competent authority. Within legislated timeframes, Zitholele Consulting is responsible for notifying the registered I&APs of each of these decisions. Stakeholders will be notified of the DEA's decision and of the opportunity to, and process for, appeal.

Your comments are important

The purpose of an Environmental Impact Assessment is to provide the decision-making authority with sufficient information on which to base their decision to grant or refuse an Environmental Authorisation and if granted, to define conditions for the development. The contributions made by stakeholders from all sectors of society will ensure informed decision-making.

You are invited to participate freely and to submit any comments or information you feel may be useful to the EIA process. Registered interested and affected parties are entitled to comment, in writing, on all written submissions to the competent authority (Department of Environmental Affairs) and to bring to the attention of the competent authority, any issues which the party believes may be of significance to the consideration of the application.

Zitholele Consulting contact details
PO Box 6002, Halfway House, 1685
Tel: 011 207 2060
Fax: 086-676-9950

Public Participation Office:
Nicolene Venter / Tricia Njapha
Email: publicprocess@zitholele.co.za

Technical Enquiries:
Sharon Meyer-Douglas / Bongani Dhlamini
Email: sharonm@zitholele.co.za / bonganid@zitholele.co.za

ZITHOLELE
CONSULTING

06 June 2014

Dear Stakeholder

Environmental Impact Assessment and Waste Management License Application for the proposed Retrofitting of a Flue Gas Desulphurisation (FGD) system at Medupi Power Station (DEA Ref. No.: 14/12/16/3/3/110)

An Integrated Environmental Impact Assessment (EIA) and Waste Water Management License (WML) Application Process are being undertaken for the proposed Retrofitting of a Flue Gas Desulphurisation (FGD) system to the Medupi Power Station. Medupi Power Station is located west of Lephalale, Limpopo Province.

The proposed operation of FGD at Medupi Power Station will produce gypsum, sludge and ash which are to be disposed of in an environmentally responsible manner. Retrofitting of FGD technology will help with the removal of sulfur dioxide from the exhaust flue gases of the Medupi Power Station operations. Each of the six (6) 800MW coal fired steam electric generating units will be retrofitted with FGD technology. Medupi Power Station currently has Environmental Authorisation for the construction of the Power Station and identified associated infrastructure. The Power Station is currently in the last phase of construction.

It is envisaged that the proposed FGD project will include the following components:

- Wastes from the FGD will be stored, handled and then disposed of at the existing ADF with the ash from the power station;
- A conveyor belt for the transportation of waste to the ash disposal facility (ADF); and access and maintenance roads to the site ADF;
- Water treatment will be carried out within a Zero Liquid Discharge plant;
- Water will be abstracted from the existing reservoir for the FGD process;
- Associated infrastructure will be constructed on site.

Zitholele Consulting (Pty) Ltd has been appointed as independent Environmental Assessment Practitioner by Eskom Holding SOC Limited to undertake the EIA, WULA and WML processes.

This letter serves to invite you to register as an Interested and/or Affected Party (I&AP) and to participate in this environmental process. To register as an I&AP, please use the registration and comment sheet enclosed in the Background Information Document. Please return the comment sheet at the latest by 07 July 2014 for this initial public notification process, although submissions and public participation will continue throughout the EIA process.

Kindly send your reply to Nicolene Venter / Bongani Dhlamini at the Public Participation Office – details are provided on the registration and comment sheet. You are also welcome to contact Zitholele Consulting on (011) 207-2060, should you require any additional information at this stage.

Yours sincerely



Nicolene Venter
Snr Public Participation Practitioner

Environmental Impact Assessment and Waste Management License Application for the proposed Medupi Power Station Flue Gas Desulphurisation.

BACKGROUND INFORMATION DOCUMENT

DEA Ref: 14/12/16/3/3/3/110

June 2014

This Background Information Document (BID) provides Interested and Affected Parties (I&APs) with information on the Environmental Impact Assessment (EIA), Waste Management License Application (WMLA) and Water Use License Application (WULA) being undertaken by Zitholele Consulting for the Retrofitting of Flue Gas Desulphurisation facility at Medupi Power Station. This document is aimed at notifying I&APs of the following proposed activities;

This BID also provides Interested and/or Affected Parties (I&APs) with the opportunity to:

- Register as a stakeholder in the public participation process; and
- Comment on the proposed project.

The purpose of an EIA is to identify and evaluate potential impacts, to recommend measures to avoid or reduce negative impacts and to enhance positive impacts. The licensing of waste management activities through a WMLA is the primary means by which these activities are regulated. The decision-making authority for both the EIA and WML Application is the Department of Environmental Affairs (DEA).

Should you register as a stakeholder, you will be included in the stakeholder database and receive further documents for review and comment/s. Your comments will ensure that all issues of concern are incorporated. **To raise your concerns and to submit comments you may have at this stage, complete the enclosed registration sheet, write a letter, call or email the public participation office (contact details below).**

All documents will be available on the internet at www.eskom.co.za/eia and <http://www.zitholele.co.za/eia-for-medupi-fgd>

Public participation office

Nicolene Venter / Bongani Dhlamini
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Technical enquiries

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Zitholele Consulting
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Fax: 086-676-9950

BACKGROUND

Eskom SOC Holding Limited (hereinafter Eskom) is the South African utility that generates, transmits and distributes electricity. Eskom supplies about 95% of the country's electricity and about 60% of the total electricity consumed in Africa. Eskom plays a major role in accelerating growth in the South African economy by providing a high-quality supply of electricity.

The Medupi Power Station Flue Gas Desulfurization (FGD) Retrofit Project consists of the retrofit of FGD systems onto six (6) 800 megawatt (MW) coal fired steam electric generating units. The proposed project is undertaken in the Limpopo Province, approximately 15km west of the town of Lephalale. The FGD Project will result in the addition of wet limestone open spray tower FGD systems to each of the operating units and will be operational within 6 years from the date of commercial operation of the first commercial generating unit.

NEED FOR THE PROPOSED PROJECT

The FGD project will involve the retrofitting of FGD technology to remove sulfur dioxide from the exhaust flue gases of the Medupi Power Station operations. The coal that Medupi Power Station burns to generate electricity results in ash and flue gases generated as the main by-products. The purpose of the FGD is to remove the sulfur dioxide from the exhaust flue gases.

Medupi Power Station currently has environmental authorisation for the construction of the Power Station and identified associated infrastructure. However to comply with the more stringent minimum Air Quality Emission Limits for new Power Plants, Medupi Power Station is required to comply on both the phases, that is, the construction phase and the operational phase.

Zitholele Consulting has been appointed by Eskom to do an Environmental Impact Assessment (EIA), Waste Management License (WML) and Water Use Licence

Application (WULA) for FGD retrofitting project. The EIA will identify, propose and assess:

- feasible sites for disposing the by-products,
- different technologies for the managing of commercial-grade saleable gypsum, ash and sludge disposal; and
- various possible designs for disposal facilities.

It is anticipated that the proposed FGD facility will have an estimated footprint of between 0.5 and 1 hectare, including associated infrastructure components which may consist of:

- Storage, handling and disposal of wastes
- Treatment of waste water within a Zero Liquid Discharge (ZLD) system.
- A conveyor belt for the transportation of waste to the ash disposal site;
- Services including electricity and water supply in the form of power lines, pipelines, and associated infrastructure; and
- Access and maintenance roads to the ash disposal facility (ADF).

The EIA team has thus far investigated all possible options for the use/disposal of the gypsum, ash and sludge. It was found that the most feasible manner in which to manage the waste was to co-dispose of all waste into the lined ADF.

LEGAL REQUIREMENTS

The proposed Medupi Power Station Flue Gas Desulfurization (FGD) retrofit and new Ash Disposal Facility is subject to the legal requirements outlined below. The applicable processes will be conducted simultaneously as an integrated process complemented by a combined public participation process and parallel Water Use License Application (WULA). These projects are subject to legal compliance from the following:

- a) National Environmental Management Act (NEMA), No 107 of 1998 and the EIA Regulations, 2010; and
- b) National Environmental Management Waste Act (NEM: WA), No 59 of 2008 as amended.
- c) National Water Act, No 36 of 1998 as amended.

NATIONAL ENVIRONMENTAL MANAGEMENT ACT (NEMA)

The proposed FGD facility and associated infrastructure requires an Environmental Impact Assessment (EIA) in terms of the National Environmental Management Act (NEMA), No 107 of 1998 and the amended EIA regulations (Government Notice R.543 to 546, published in June 2010). The Department of Environmental Affairs (DEA) is the Competent Authority.

As per Government Notice R.543 of June 2010, Chapter 2 the competent authority must consult with every government organ that administers a law relating to a matter affecting the environment relevant to that application for an environmental authorisation when considering an application.

Therefore, the Department of Water Affairs, the Limpopo Department of Economic Development, Environment and Tourism, Waterberg District Municipality and the Lephalale Local Municipality are commenting authorities in this process.

This process includes Scoping and Environmental Impact Report (S&EIR) Phases, which are applicable to all projects likely to have significant environmental impacts due to their nature or extent, activities associated with potentially high

levels of environmental degradation, or activities for which the impacts cannot be easily predicted.

In terms of Government Notice R.545 of 2010, the following listed activities require that a S&EIR be undertaken and are applicable to this proposed project:

- **Activity 3:** The construction of facilities or infrastructure for the storage, or for the storage and handling, of limestone as an input into the FGD process. The limestone will be stored at a volume of more than 500 cubic meters at any one time.
- **Activity 6:** The construction of facilities of infrastructure for the bulk transportation of ash using conveyors with a throughput capacity of more than 50 tons per day.
- **Activity 11:** The construction of a rail yard for purposes of transport of products to the Power Station and waste products from the Power Station.
- **Activity 15:** The physical alteration of undeveloped, vacant, or derelict land for purposes of a rail yard and associated infrastructure.



Figure 1: Construction at Medupi Power Station

NATIONAL ENVIRONMENTAL MANAGEMENT WASTE ACT (NEM:WA)

With the proclamation of the National Environmental Management Waste Act (NEM: WA), No 59 of 2008, all waste related activities previously listed under the National Environmental Management Act (NEMA), No 107 of 1998 have been repealed and are now listed under the NEM:WA.

In terms of Government Notice R.718, **Category B** the following activities require authorisation:

Activity 1: The storage, including temporary storage, of hazardous waste in lagoons. This activity will be triggered should the sludge require separate disposal and not be co-disposed of at the Ash Disposal Facility.

Activity 5: The treatment of sludge in lagoons. This activity will only be triggered should the preferred option of co-disposal not be supported by the waste classification assessment.

Activity 7: The disposal of any quantity of gypsum to the existing Ash Disposal Facility.

Activity 10: The construction of facilities for activities listed in this schedule.

In terms of Government Notice R.718, **Category C** the following activities require authorisation:

Activity 2: The storage, including temporary storage, of hazardous waste such as gypsum, salts and sludges from the FGD process prior to disposal on or off-site. The combined storage of hazardous waste will be more than 35m³ at any one time.

As described in the Regulations *“a person who wishes to commence, undertake or conduct an activity listed under this Category, must conduct an environmental impact assessment process, as stipulated in the environmental impact assessment regulations made under Section 24(5) of the NEMA as part of a waste management license application”*.

Therefore the proposed development requires the submission of a Waste Management License application as well as a Scoping and Environmental Impact Report (S&EIR) to the DEA.

WATER USE LICENSE APPLICATION (WULA)

The FGD will be operated on wet systems; very small volumes of water will be circulated from the absorber reaction tank to spray headers. The water will be abstracted from the existing raw water reservoir. The reservoir has two compartments to supply water from either the Crocodile West or the Mokole water suppliers. Water will also be used for suppressing ash from the ADF. In addition, waste water will be treated on site within a Zero Liquid Discharge facility. The project will therefore require a Water Use License Application (WULA) in terms of Section 21 of the National Water Act (No 36 of 1998) (NWA). The WULA will be initiated later within the EIA process.

ENVIRONMENTAL IMPACT ASSESSMENT (EIA)

An Environmental Impact Assessment (EIA) is a planning and decision-making tool undertaken in terms of the National Environmental Management Act (NEMA), Act No 107 of 1998, as amended. An EIA is a management tool that helps to identify and mitigate any potential impacts that a new development might generate on the receiving environment. The EIA takes place prior to the construction of the development.

TECHNICAL AND PUBLIC PARTICIPATION PROCESSES

An EIA has two parallel and integrated processes namely, a **technical** and a **public participation** process.

The **technical process** investigates "hard" information: facts based on scientific and technical studies, statistics or technical data. It identifies the potential negative and positive consequences of a proposed project or development at an early stage and recommends ways to enhance positive impacts and to avoid, reduce or mitigate negative impacts.

The EIA regulations require that an Environmental Management Programme (EMPr) be developed. The EMPr provides recommendations on how to operate and implement the project. The provisions of the EMPr are legally binding on the developer and its contractors.

Public participation ensures that the EIA process is fair, open and transparent. It also provides stakeholders with sufficient information and gives them opportunity to contribute by reviewing and commenting on the information.

The findings of the EIA will assist landowners and Eskom to determine the extent of local impacts in support of any negotiations that might be necessary.

The public participation process is designed to provide sufficient and accessible information to Interested and Affected Parties (I&APs) in an objective manner to assist them to:

- Raise issues of concern and make suggestions for alternatives and enhanced benefits;
- Contribute local knowledge;
- Verify that their issues have been captured and considered by the technical investigations;
- Comment on the findings of the EIA.

PHASES IN AN EIA

SCOPING PHASE

The **first phase** of an EIA is the Scoping Phase, which is conducted to gain an understanding of the potential environmental issues that are relevant to the project and to determine where further information is required, in the form of specialist studies/investigations.

The Scoping Report and Plan of Study for the EIA are submitted to the Department of Environmental Affairs (DEA) for review and to approve the proposed approach to the detailed investigation required in the next phase.

Activities involved in the Scoping Phase include:

- Meetings with authorities to agree on process and study requirements;
- Initial public and landowner notification, which includes placing of site notices, the distribution of letters, this Background Information Document and an invitation to

contribute to the EIA process to I&APs in the project area and beyond;

- Advertisements in local and regional newspapers to announce opportunities to participate;
- Progress feedback letter to be issued and announcements to be made of the availability of the Draft Scoping Report (DSR) and Comment and Responses (CRR);
- Distribution of a DSR, including CRR for comment;
- Convening a stakeholder meeting in the project area to obtain comments on the DSR
- Submission of a Final Scoping Report (FSR), capturing all issues raised for the impact assessment, to the DEA;
- Submit the Plan of Study for the EIA to the DEA;
- Distribution of the FSR for comments; and
- Distribution of a progress feedback letter to stakeholders.

ENVIRONMENTAL IMPACT REPORT PHASE

The **second phase** is the Environmental Impact Report (EIR) Phase, which entails undertaking various specialist studies and compiling a Draft EIR.

As part of the assessment, an Environmental Management Programme (EMPr) as well as an Operational Plan will also be submitted to the Department of Environmental Affairs (DEA) for their approval. By following the EMPr, Eskom and its contractors will ensure compliance to environmental regulations during the planning, construction, operation and decommissioning (if applicable) phases.

The list of identified specialist studies required for this EIR (to date) is listed below (all seasonal dependent studies will be undertaken in the wet season):

- Facility Design, Operational Plan and Topographical Survey;
- 3D modelling of the final site design (optional)
- Waste Classification;
- Social Impact Assessment;
- Visual Impact Assessment; and
- GIS for mapping purposes.

The names of the specialists who will undertake these studies are available from the public participation office.

Specific activities in this phase will include:

- Specialist studies focused on outcomes of the Scoping Phase and issues raised by stakeholders;
- Progress feedback to stakeholders;
- Compilation of a Draft EIR and EMPr indicating the potential positive and negative impacts and measures to enhance positive impacts and to reduce or avoid negative impacts;
- Environmental Impact Statement, highlighting the preferred alternative and reasons thereof;
- Advertise the availability of the Draft EIR and EMPr in local and regional newspapers;
- Distribution of the Draft EIR and EMPr, including Issues and Responses Report, for comment;
- A stakeholder meeting in the project area to present a summary of the findings of the EIR for stakeholder comment; and
- Distribution of the Final EIR and EMPr for comment.

The EIR and EMPr will then be finalised and submitted to the DEA for a decision.

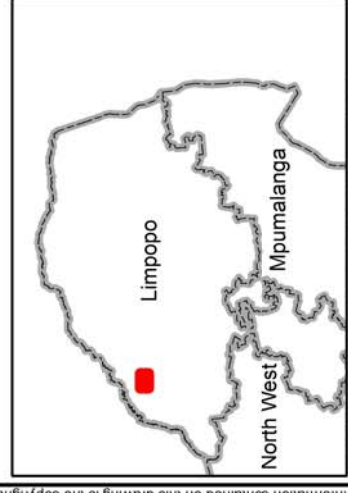
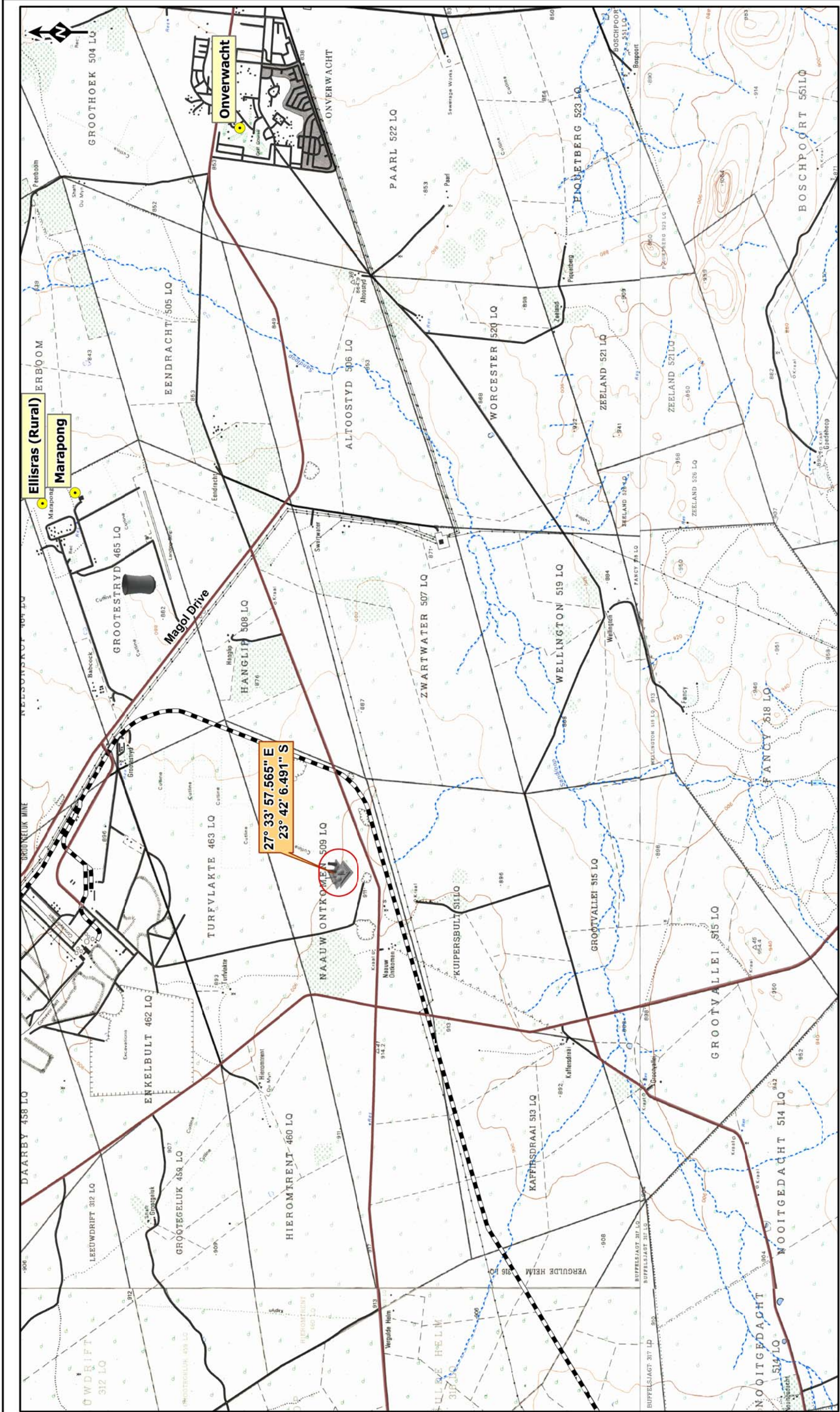
DECISION-MAKING (ENVIRONMENTAL AUTHORISATION)

This involves notifying the registered I&APs about the decision from the Competent Authority, the Department of Environmental Affairs (DEA) in this case. The DEA must accept or reject this report within 105 days. Stakeholders will be notified of the DEA's decision if an Environmental Authorisation has been granted or not and of the appeal procedure should they wish to appeal the decision.

Your comments are important.

The purpose of an Environmental Impact Assessment is to provide the decision-making authority with sufficient information on which to base their decision to grant or refuse an Environmental Authorisation and if granted, to define conditions for the development. The contributions made by stakeholders from all sectors of society will ensure informed decision-making.

You are invited to participate freely and to submit any comments or information you feel may be useful to the EIA process. Registered interested and affected parties are entitled to comment, in writing, on all written submissions to the competent authority (Department of Environmental Affairs) and to bring to the attention of the competent authority, any issues which the party believes may be of significance to the consideration of the application.



LEGEND

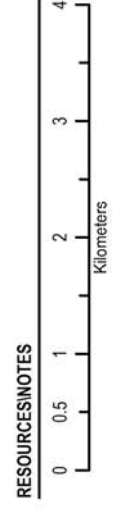
- Place Names
- Medupi Power Station
- Matimba Power Station

ROADS

- Regional road
- Main road
- Secondary road
- Streets and other access

Place Names

- Rail
- Non Perennial Rivers
- Perennial Rivers



PROJECT
MEDUPI FGD

TITLE
LOCALITY MAP

GIS	VR	23/04/2014	PROJECT No. 12949
CHECK	SM	23/04/2014	SCALE 1:65 000
REVIEW		23/04/2014	A3
			REV 0

DRAFT

REFERENCE
PROJECTION GCS WGS 1984

REGISTRATION AND COMMENT SHEET

**Integrated Environmental Impact Assessment
and Water Use License Application for a
proposed Retrofitting Flue Gas Desulphurisation
(FGD) at Medupi Power Station
(DEA Ref.No.: 14/12/16/3/3/3/110)**

(inserted in the Background Information Document)

June 2014

EIA Public Participation Office

Nicolene Venter / Bongani Dhlamini
Zitholele Consulting (Pty) Ltd
P O Box 6002, Halfway House, 1685
Tel: (011) 207 2060
Fax: 086-676-9950
Email: publicprocess@zitholele.co.za

Please complete by Monday 07 July 2014 and return to the EIA Public Participation Office (as above)

TITLE		NAME			
SURNAME					
ORGANISATION or PROPERTY INFORMATION					
POSTAL ADDRESS			POSTAL CODE		
TEL NO		FAX NO			
CELL NO					
E-MAIL ADDRESS					
Please formally register me as an interested and/or affected party (I&AP) so that I may receive further information and notifications during the Environmental Impact Assessment process			<table border="1"> <tr> <td>YES</td> <td>NO</td> </tr> </table>	YES	NO
YES	NO				
I would like my notifications by			Letter (mail)		
			Email		
			Fax		
			Telephone		
I would like to receive documents for comment as follows:			By email		
			On CD		
In terms of Regulations GNR 543 - 546 – Government Gazette No. 33306 of 18 June 2010 (<i>EIA process regulations</i>) I disclose below any direct business, financial, personal or other interest that I may have in the approval or refusal of the application:					

COMMENTS (please use separate sheets if you wish)

I suggest that the following issues of concern be investigated in the Environmental Impact Assessment:

.....

.....

.....

Please register the following colleagues/friends/neighbours on the project database:

.....
THANK YOU FOR YOUR CONTRIBUTION

06 June 2014

Thobela Mokgathatema

**Kelo ya Seabe sa Tikologo le Kgopelo ya Laesense ya Taolo ya Ditšhila ya Tselatshepetšo ya Tsenyogape yeo e šišintšwego ya Hlwekišo ya Gase ya Tšhimini (FGD) Setešieneng sa Medupi sa Mohlagase
(DEA Ref. No.: 14/12/16/3/3/110)**

Tshepetšo ya Kelo ya Seabe sa Tikologo yeo e kopantšwego (EIA) le Kgopelo ya Laesense ya Taolo ya Meetse a Ditšhila di tla dirwa go Tsenyogape yeo e šišintšwego ya tselatshepetšo ya Hlwekišo ya Gase ya Tšhimini (FGD) go Setešiene sa Medupi sa Mohlagase. Setešiene sa Medupi sa Mohlagase se bodikela bja Lephallale, Profenseng ya Limpopo.

Tshepedišo yeo e šišintšwego ya FGD Setešieneng sa Medupi sa Mohlagase e tla tšweletša tšipisiamo, leraga le molora tšeo di swanetšwego go tšhollwa ka tsela ya maikarabelo a tikologo. Go tsenyagape ga theknolotši ya FGD go tla thuša ka go tloša salfa taeoksaete go tšwa go digase tša tšhimini tša ditshepedišo tša Setešiene sa Medupi sa Mohlagase. Ye nngwe le ye nngwe ya diyuniti tše tshela (6) tša 800MW tšeo di tšweletšago mohlagase wa muši wo o tukišwago ka malahla di tla tsenywa gape theknolotši ya FGD. Setešiene sa Medupi sa Mohlagase ga bjale se na le Tumelelo ya Tikologo ya go aga Setešiene sa Tikologo le sebopego seo se amanago le sona seo se laeditšwego. Setešiene sa Mohlagase ga bjale se legatong la mafelelo la kago.

Go lebeletšwe gore protšeke ye e šišintšwego ya FGD e tla akaretša dikarolwana tše di latelago:

- Ditšhila go tšwa go FGD di tla bolokwa, tša swarwa gomme tša tšhollwa lefelong leo le lego gona la ADF le molora go tšw go setešiene sa mohlagase;
- Lepanta la phetišo la tshepetšo ya ditšhila go lefelong la go tšholla molora (ADF); le phihlelelo le tlhokomelo ya ditsela go ya saeteng ya ADF;
- Tlhokomelo ya meetse e tla dirwa planting ya Go ntšha Meetse ka Lefela;
- Meetse a tla ntšhwa go tšwa letangwaneng leo le go gona la tshepetšo ya FGD;
- Go tla agwa sebopego seo se amanago le se saeteng.

Zitholele Consulting (Pty) Ltd e thwetšwe bjalo ka Sešomi sa go ikemela ka noši sa Kelo ya Tikologo ke Eskom Holding SOC Limited go dira ditshepetšo tša EIA, WULA le WML.

Lengwalo le le go mema go tlo ingwadiša bjalo ka Mokgatlo wo o na go le Kgahlego le/goba o Amegago (E&AP) le go kgatha tema ka go tshepetšo ye ya tikologo. Go ingwadiša bjale ka I&AP, o kgopelwa go diriša ngwadišo le letlakala la ditshwaotshwao tšeo di loketšwego ka gare ga Tokumente ya Tshedimošo ya Kakaretšo. O kgopelwa go bušetša letlakala la ditshwaotshwao pele ga 07 Julae 2014 go tshepetšo ye ya mathomo ya tsebišo ya setšhaba, le ge dithomelo le bokgathatema bja setšhaba di tla tšwela pele nako ka moka ya tshepetšo ya EIA.

O kgopelwa gore o romele phetolo ya gago go Venter / Bongani Dhlamini Kantorong ya Bokgathatema bja Setšhaba – dintlha di filwe godimo ga ngwadišo le letlakala la ditshwaotshwao. O dumeletšwe gape go ikopanya le Zitholele Consulting go (011) 207-2060, ge o ka ba le tshedimošo yeo o ka e hlokago mo legatong le.

Ka boikokob etšo



Nicolene Venter
Mošomi wo Mogolo wa Bokgathatema bja Setšhaba

Kelo ya Seabe sa Tikologo le Kgopelo ya Laesense ya Taolo ya Ditšhila go Seteišene seo se šišintšwego sa Mohlagase wa Medupi sa Hlwekišo ya Gase ya Tšhimini.

TOKUMENTE YA KAKARETŠO YA TSHEDIMOŠO

DEA Ref: 14/12/16/3/3/3/110

Tokumente ye ya Tshedimošo ka Kakaretšo (BID) e fana ka tshedimošo go Mekgatlo yeo e na go le Kgahlego le yeo e Amegago (I&Aps) ka ga Kelo ya Seabe go tikologo (EIA), Kgopelo ya Laesense ya Taolo ya Ditšhila (WMLA) le Kgopelo ya Laesense ya Tirišo ya Meetse (WULA) tšeo di dirwago ke Zitholele Consulting go moago wa Retrofitting of Flue Gas Desulphurisation Seteišeneng sa Medupi Mohlagase. Maikemišetšo a tokumente ye ke go tsebiša I&Aps ka ga mediro ye e latelago yeo e šišintšwego;

BID e fana gape go Mekgatlo yeo e nago le Kgahlego le yeo e Amegago (I&Aps) ka sebaka sa go:

- Ngwadiša bjalo ka mokgathatema ka go tšhepetšo ya bokgathatema bja setšhaba; le
- Fa ditswhaotshwao go protšeke yeo e šišintšwego.

Mohola wa EIA ke go laetša le go ela diabe tšeo di ka ba go gona, go šišinya ditsela tšeo di swanetšwego go se šetšwe goba go fokotša diabe tšeo di sa lokago gape le go oketša diabe tšeo di nyakegago. Laesense ya mediro ya taolo ya ditšhila yeo e fiwago ke WMLA ke yona tsela ya motheo yeo ka yona mediro ye e laolwago. Taolo ya go tšea sephetho go bobedi bja Kgopelo ya EIA le WMLA ke Goro ya Merero ya Tikologo (DEA).

Ge o ka ngwadiša bjalo ka mokgathatema, o tla lokelwa ka gare ga datapeisi ya bakgathatema gomme wa amogela ditokumente tše dingwe gore o di lekole o kgone le go fa ditswhaotshwao. Ditswhaotshwao tša gago di tla netefatša gore ditaba ka moka tšeo di swanetšwego go fiwa šedi di a akaretšwa. **Go tšweletša maikutlo a gago le go romela ditswhaotshwao tšeo o ka ba go le tšona ga bjale, tlatša letlakala leo le loketšwego ka fa la ngwadišo, ngwala lengwalo, letša goba o romele emeile go kantoro ya bokgathatema bja setšhaba (dintlha tša go ikopanya le bona ke tše di latelago ka tlase).**

Ditokumente ka moka di tla ba gona godimo ga inthanet go <http://www.zitholele.co.za/eia-for-medupi-fgd>

Kantoro ya bokgathatema bja Setšhaba

Nicolene Venter / Bongani Dhlamini
Zitholele Consulting
P O Box 6002, Halfway House, 1685
Tel: 011 207 2060
Fax: 086-676-9950
Email: publicprocess@zitholele.co.za

Technical enquiries

Sharon Meyer-Douglas
Zitholele Consulting
Tel: (011) 207-2073
Fax: 086-676-9950
Email: sharonm@zitholele.co.za

KAKARETŠO

Eskom SOC Holding Limited (yeo e bitšwago Eskom) ke tirelo ya Afrika Borwa yeo e tšweletšago, fetišago gape e phatlalatšago mohlagase. Eskom e fana ka mohlagase wa go ka ba 95% wa naga gape le go ka ba 60% ya mohlagase ka moka woo o dirišwago ka Afrika. Eskom e na le mošomo wo bohlokwa ka go oketša kgolo ka go ekonomi ya Afrika Borwa ka go fana ka kabo ya khwalithi ya godimo ya mohlagase.

Protšeke ya Seteišene sa Medupi sa Mohlagase sa Tsenyogape ya Hlwekišo ya Gase ya Tšhimini (FGD) e akaretša go tsenya gape ga ditselatshepetšo tša FGD godimo ga di mekawate (MW) tše tshela (6) 800 tša diyuniti tšeo di tšweletšago mohlagase tša muši woo o tukišago ke malahla. Protšeke ye e šišintšwego e dirwa Profenseng ya Limpopo, dikilometara tša go ka ba tše 15 bodikela bja toropo ya Lephalale. Protšeke ya FGD e tla tšweletša koketšo ya ditselatshepetšo tša FGD tša thawa ya go fothela yeo e bulegilego ya go thapa ya laemestone go diyuniti ka moka tšeo di šomago gomme e tla šoma mo mengwageng ye 6 go tlogela ka tšatšikgwedi la tshepetšo ya kgwebo ya yuniti ya mathomo ya tšweletšo ya kgwebo.

TLHOKEGO YA PROTŠEKE YE E ŠIŠINTŠWEGO

Protšeke ya FGD e tla ama go tsenya gape ga theknolotši ya FGD go tloša salfa taeoksaete go tšwa go digase tša tšhimini tša ditshepedišo tša Seteišene sa Medupi Power. Malahla ao a fišwago ke Seteišene sa Medupi Power go tšweletša mohlagase a feletša e le molora le digase tša tšhimini tšeo di tšweleditšwego bjalo ka ditšweletša tše kgolo. Mohola wa FGD ke go tloša salfa taeoksaete go tšwa go digase tša tšhimini.

Seteišene sa Medupi Power se na le tumelelo ya tikologo ya go aga Seteišene sa Mohlagase le dibopego tša go amana le sona tšeo di laeditšwego. Le ge go le bjalo, go latela melao ye mengwe ye boima ya Dikgaoletšo tša Montšho wa Khwalithi ya Moya go Diplante tše mpsha tša Mohlagase, Seteišene sa Mohlagase sa medupi se hloka gore se latele melao ya bobedi bja magato, go šupša legato la kago le legato la tshepedišo.

Zitholele Consulting e thwetšwe ke Eskom go dira Kelo ya Seabe sa Tikologo (EIA), Laesense ya Taolo ya Ditšhila (WML) le Kgopelo ya Laesense ya Tirišo ya Meetse (WULA) tša protšeke ya go

tsenya gape ya FGD. EIA e tla laetša, šišinya le go ela:

- disaete tšeo di lokilego tša go tšholla ditšweletšwa,
- ditheknolotši tša go fapana tša go laola tšipsiamo ya go tswalela ya grata ya kgwebo, molora le ditšhila tša leraga; le
- dithulaganyo tša go fapafapana tšeo di kgonegago tša meago ya ditšhila..

Go lebeletšwe gore moago wo o šišintšwego wa FGD o tla ba le dikgato tše di ka balelwago magareng ga dihektara tše 0.5 le 1, go akaretšwa dikarolwana tša sebopogo tšeo di ka akaretšago:

- Polokelo, go swara le go tšholla ditšhila
- Tlhokomelo ya meetse a ditšhila ka tselatshepetšo yeo e Ntšhago Meetsana ka Bolefela (ZLD).
- Lepanta la phetišo la tshepetšo ya ditšhila go iša saeteng ya go ntšha molora;
- Ditirelo tšeo di akaretšago kabo ya mohlagase le meetse ka mokgwa wa dilaene tša mohlagase, diphaephe, le dibopego tšeo di amanago le tšona; le
- Phihlelelo le tlhokomelo ya ditsela go ya go mafelo a go tšholla melora (ADF).

Sehlopha sa EIA se šetše se nyakišišitše dikgonagalo ka moka tša tirišo/tšhollo ya tšipsiamo, molora le leraga. Go hweditšwe gore tsela ye kaone go di feta ya go laola ditšhila ke go di tšholla ka moka mmogo ka go ADF yeo e thadilwego.

DINYAKWA TŠA SEMOLAO

Go tsenya gape go go šišitšwego gwa Hlwekišo ya Gase ya Tšhimini(FGD) ya Seteišene sa Mohlagase sa Medupi le Moago wo moswa wa Go tšholla Molara go laolwa ke dinyakwa tša semolao tšeo di filwego ka mo tlase. Ditshepetšo tšeo di hlokegago di tla dirwa nako e tee bjalo ka tshepetšo yeo e kopantšwego e tlatšwego ke tshepetšo ya bokgathatema bja setšhaba yeo e kopantšwego gammogo le Kgopelo ya Laesense ya Tirišo ya Meetse (WULA) yeo e lebanego le yona. Diprotšeke tše di laolwa ke tatelo ya semolao go tšwa go Melao ye e latelago:

- Molao wa Bosetšhaba wa Taolo ya Tikologo (NEMA), Wa 107 wa 1998 le Melawana ya EIA, 2010; le
- Molao wa Bosetšhaba wa Ditšhila tša Taolo ya Tikologo (NEM: WA), Wa 59 wa 2008 go ya ka moo o lokišitšwego.
- Molao wa Bosetšhaba wa Meetse, Wa 36 wa 1998 go ya ka moo o lokišitšwego.

MOLAO WA BOSETŠHABA WA TAOLO YA TIKOLOGO (NEMA)

Sebopego seo se šišintšwego sa FGD le dibopego tšeo di amanago le sona di hloka Kelo ya Seabe sa Tikologo (EIA) go ya ka Molao wa Bosetšhaba wa Taolo ya Tikologo (NEMA), Wa 107 wa 1998 le melawana yeo e lokišitšwego ya EIA (Tsebišo ya Mmušo R.543 go ya go 546, yeo e phatlaladitšwego ka June 2010). Kgoro ya Merero ya Tikologo (DEA) ke yona Pušo ya Maitemogelo.

Go ya ka Tsebišo ya Mmušo R.543 ya June 2010, Kgaolo ya 2 pušo ya maitemogelo e swanetše go ikopanya le setho se sengwe le se sengwe sa mmušo seo se laolago molao woo o amanago le taba yeo e amago tikologo malebana le kgopelo yeo go hwetša tumelelo ya tikologo ge e šetša kgopela.

Ka go realo, Kgoro ya Merero ya Meetse, Kgoro ya Tšwetšopele ya Ekonomi, Tikologo le Boeti ya Limpopo, Mmasepala wa Selete wa Waterberg ke tšona dipušo tša go swayaswaya mo tshepetšong ye.

Tshepetšo ye e akaretša Magato a Kakaretšo le Pego ya Seabe sa Tikologo (S&EIR), ao a lego gona go diprotšeke ka moka tšeo di ka ba go le diabe tša go swana go ya ka tlhago ya tšona goba bogolo, mediro yeo e amanago le magato a godimo a phokotšo ya tikologo, goba mediro yeo e lego gore diabe di ka se kamakwego gabonolo.

Go ya ka Tsebišo ya Mmušo R.545 ya 2010, mediro yeo e latelago e hloka S&EIR gore e dirwe gomme e ama protšeke ye e šišintšwego:

- Modiro wa 3:** Kago ya meago goba sebopego tša poloko, goba go boloka le go swara, tša leswika la laeme bjalo ka koketšo go tshepetšo ya FGD. Leswika la laeme le tla bolokwa ka boima bja go feta dimetara tša kubiki tše 500 nakong efe goba efe e tee.
- Modiro wa 6:** Kago ya meago ya sebopego go sepetša ka bontši melora ka go diriša basepediši bao ba nago le boleng bja go bonagala bja ditone tša go feta tše 50 ka letšatši.
- Modiro wa 11:** Kago ya jarata ya legora meholeng ya dinamelwa tša ditšweletša go ya Seteišeneng sa Mohlagase le ditšweletšwa tša ditšhila go tšwa go Seteišene sa Mohlagase.
- Modiro wa 15:** Tokišo ya ka ntle ya lefase leo le sa tšweletšwago gabotse, leo le se na go selo meholeng ya jarata ya legora le sebopego seo se amanago le yona.



Seswantšho sa 1: Kago go Seteišene sa Medupi sa Mohlagase

MOLAO WA BOSETŠHABA WA DITŠHILA TŠA TAOLO YA TIKOLOGO (NEM:WA)

Ka tsebagatšo ya Molao wa Bosetšhaba wa Ditšhila wa Taolo ya Tikologo (NEM: WA), Wa 59 wa 2008, mediro ka moka yeo e amanago le ditšhila yeo e filwego peleng ka tlase ga Molao wa Bosetšhaba wa Taolo ya Tikologo (NEMA), Wa 107 wa 1998 e phumutšwe gomme ga bjale e fiwa ka tlase ga NEM:WA. Go ya Tsebišo ya Mmušo R.718, **Sehlopha B** mediro ye e latelago e hloka tumelelo:

Modiro wa 1: Lefelo la polokelo, go akaretša lefelo la polokelo la motšwaoswere, la ditšhila tše kotsi ka gare ga matangwana. Modiro wo o tla diragatšwa ge leraga le ka hloka lefelo la go tšholla leo le fapanego gomme la se tšhollwe mmogo Lefelong la Go tšholla la Melora.

Modiro wa 5: Tlhokomelo ya leraga ka gare ga matangwana. Modiro wo o tla diragatšwa fela ge kgetho yeo e kaonetšwago ya go tšholla mmogo e sa thekgwe ke kelo ya tlhopho ya ditšhila.

Modiro wa 7: Go tšholla boleng bofe goba bofe bja tšipiamo go ya go Lefelo la Go Tšholla la Melora.

Modiro wa 10: Kago ya meago ya mešongwana yeo e filwego ka gare ga šetule ye.

Go ya ka Tsebišo ya Mmušo R.178, **Sehlopha C** mediro ye e latelago e hloka tumelelo:

Modiro wa 2: Lefelo la polokelo, go akaretšwa lefelo la polokelo la motšwaoswere, la ditšhila tše kotsi go swana le tšipiamo, matswai le maraga go tšwa go tšhepetšo ya FGD pele ga go tšholla saeteng goba ka ntle. Lefelo la polokelo leo le kopanetšwego la ditšhila tše kotsi le tla ba 35m³ ka nako efe goba efe e tee.

Go ya ka moo go hlalositšwego ka gare ga Melawana “*motho yoo a ratago go thoma, go tšea goba go diragatša modiro woo o filwego ka tlase ga Sehlopha se, o swanetše go dira tšhepetšo ya kelo ya seabe sa tikologo yeo e dirilwewgo ka tlase ga Karolo 24(5) ya NEMA bjalo ka karolo ya kgopelo ya laesense ya taolo ya ditšhila*”.

Ka go realo tšwetšopele yeo e šišintšwego e hloka go romela kgopelo ya Laesense ya Taolo ya Ditšhila gammogo le Kakaretšo le Pego ya Seabe sa Tikologo (S&EIR) go ya go DEA.

KGOPELO YA LAESENSE YA TIRIŠO YA MEETSE (WULA)

FGD e tla sepetšwa godimo ga ditselatshepetšo tša go thapa; divolumu tše nnyane kudu tša mmetse di tla sepetšwa go tloga go tanka go ya go difuthela. Meetse a tla ntšhwa go tšwa go letangwana leo le lego gona la meetse. Letangwana le na le dikarolo tše pedi go aba meetse go tšwa go Crocodile West goba diabi tša Mokole tša meetse. Meetse a tla dirišwa gape go gatelela molora go tšwa go ADF. Godimo ga moo, meetse a ditšhila a tla hlwekišwa saeteng lefelong la Go ntšha Lefela la Meetse. Protšeke ka moo e tla hloka Kgopele ya Laesense ya Tirišo ya Meetse (WULA) go ya ka Karolo 21 ya Molao wa Bosetšhaba wa Meetse (Wa 36 wa 1998) (NWA). WULA e tla thongwa ka morago ka go tšhepetšo ya EIA.

KELO YA SEABE SA TIKOLOGO (EIA)

Kelo ya Seabe sa Tikologo (EIA) ke sedirišwa sa go rulaganya le go tše a sephetho go ya ka Molao wa Bosetšhaba wa Taolo ya Tikologo (NEMA), Molao wa 107 wa 1998, go ya ka moo o lokišitšwego. EIA ke sedirišwa sa taolo seo se thušago go laetša le go fokotša diabe tšeo di ka ba go gona tše tšwetšopele ye mpsha e ka ba go le tšona godimo ga tikologo ya go amogela. EIA e tla pele ga kago ya tšwetšopele.

DITSHPETŠO TŠA BOKGATHATEMA BJA THEKNIKI LE SETŠHABA

EIA e na le ditshepetšo tše pedi tša go lebana gape tšeo di kopanetšwego di bitšwago, tšhepetšo ya **thekniki** le **bokgathatema bja setšhaba**.

Tšhepetšo ya thekniki e nyakišiša tshedimošo ye “bothata”: dintlha tšeo di theilwego godimo ga dithuto tša saense le thekniki, dipalopalo goba data ya thekniki. E laetša ditlamorago tša mohola le tša go hloka mohola tša protšeke yeo e šišintšwego goba tšwetšopele legato la ka pejana gomme ya eletša ditsela tša go oketša diabe tša mohola le go fokotša diabe tša go hloka mohola.

Melawana ya EIA e nyaka gore Lenaneo la Taolo ya Tikologo (EMPr) e tšweletšwe. EMPr e fana ka ditšhišinyo tša ka moo go ka sepetšwago le go diragatša protšeke. Dikabo tša EMPr di tlama ka semolao go motšweletši le badiredi ba yona.

Bokgathatema bja setšhaba bo netefatša gore tšhepetšo ya EIA e gabotse, e bulegile gape ga e na sephiri. E fana gape go bakgathatema ka tshedimošo ka botlalo gape e ba fa sebaka sa go neelana ka go lebelela gape le go swayaswaya godimo ga tshedimošo.

Dikhumano tša EIA di tla thuša beng ba naga le Eskom go laetša bogolo bja diabe tša selegae ka thekgo ya ditherišano dife goba dife tšeo di ka hlokagalago.

Tšhepetšo ya bokgathatema bja setšhaba e rulagantšwe go fana ka tshedimošo ka botlalo gape yeo e fihlelelwago go Mekgatlo yeo e na go le Kgahlego gape e Amegago (I&Aps) ka mokgwa wa maikemišetšo a go ba thuša go:

- Tšweletša ditaba tšeo di ba amago gape le go dira ditšhišinyo tša mehola ye mengwe;
- Abelana ka tsebo ya selegae;
- Netefatša gore ditaba tša bona di rekitilwe gape di šeditšwe ke dinyakišišo tša thekniki;
- Fa tshwaotshwao godimo ga dikhumano tša EIA.

MAGATO KA GARE GA EIA

LEGATO LA KAKARETŠO

Legato la mathomo la EIA ke Legato la Kakaretšo, leo le direlwago go hwetša kwešišo ya ditaba tšeo di ka ba go gona tša tikologo tšeo di le go malebana le protšeke gape le go

laetša moo tshedimošo ye nngwe e nyakegago, ka mokgwa wa dinyakišišo/dithuto tša setsebi.

Pego ya Kakaretšo le Thulaganyo ya Thuto tša EIA di romelwa go Kgoro ya Merero ya Tikologo (DEA) go lekolwa gape le go dumelela mokgwa wo o šišintšwego go nyakišišo ka botlalo yeo e hlokegago go legato le le latelago.

Mediro yeo e lego ka go Legato la Kakaretšo e akaretša:

- Dikopano le bammušo go dumelelana ka tshepetšo le dinyakwa tša thuto;
- Tsebišo ya mathomo ya setšhaba le mong wa naga, yeo e akaretšago go bea ditsebišo tša saete, phatlalatšo ya mangwalo, Tokumente ye ya Tshedimošo ka Kakaretšo le taletšo ya go tšea karolo ka go tshepetšo ya EIA go I&Aps lefelong la protšeke le go feta;
- Dipapatšo ka gare ga dikuranta tša selegae le tša selete go tsebagatša dibaka tša go kgatha tema;

- Lengwalo la pego ya tšwelopele leo le tla fiwago le ditsebišo tšeo di tlo go dirwa tša go ba gona ga Pego ya Sethalwa ya Kakaretšo (DSR) le Ditshwaotshwao le Diphetolo (CRR);
- Phatlalatšo ya DSR, go akaretšwa CRR go fa ditshwaotshwao;
- Go bitša kopano ya bakgathatema ka go lefelo la protšeke go hwetša ditshwaotshwao godimo ga DSR
- Go romela Pego ya Mafelelo ya Kakaretšo (FSR), go ngwala ditaba ka moka tšeo di boletšwego go kelo ya seabe, go ya go DEA;
- Romela Thulaganyo ya Thuto ya EIA go ya go DEA;
- Phatlalatšo ya FSR go hwetša ditshwaotshwao; le
- Phatlalatšo ya lengwalo la pego ya tšwelopele go ya go bakgathatema.

LEGATO LA PEGO YA SEABE SA TIKOLOGO

Legato la bobedi ke Legato la Pego ya Seabe sa Tikologo (EIR), leo le akaretšago go dira dithuto tša go fapafapana tša botsebi le go ngwala Sethalwa sa EIR.

Bjalo ka karolo ya kelo, Lenaneo la Taolo ya Tikologo (EMPr) gammogo le Thulaganyo ya Tshapedišo di tla romelwa go Kgoro ya Merero ya Tikologo (DEA) go hwetša tumelelo. Ka go latela EMPr, Eskom le badiredi ba yona e tla netefatša gore go ba le tatelo ya melawana ya tikologo mo nakong ya magato a thulaganyo, kago, tshapedišo le go ntšha (ge e le gona).

Lenaneo la dithuto tšeo di laeditšwego tša botsebi tša EIR (go fihla ga bjale) le fiwa ka mo tlase (dithuto ka moka tša dihla di tla dirwa ka sehla sa go thapa):

- Moakanyo wa Moago, Thulaganyo ya Tshapedišo le Nyakišišo ya Tikologo;
- Go dira motlolo wa 3D ya moakanyo wa mafelelo wa saete (ga e gapeletšwe)
- Tlhopho ya Ditšhila;
- Kelo ya Seabe sa Leago;
- Kelo ya Seabe sa Ponot; le
- GIS meholeng ya thulaganyo.

Maina a ditsebi tšeo di tlo go dira dithuto tše a gona go tšwa go kantoro ya setšhaba ya bokgathatema.

Mediro ye e itšego ka gare ga legato le e tla akaretša:

- Dithuto tša botsebi di lebeletše ditlamorago tša Legato la Kakaretšo le mathata ao boletšwego ke bakgathatema;
- Pego ya tšwelopele go bakgathatema;
- Go ngwala Sethalwa sa EIR le EMPr yeo e laetšago diabe tšeo di ka ba go gona tša go ba le mohola le tša go hloka mohola le go fokotša goba go phema diabe tša go hloka mohola;
- Pego ya Seabe sa Tikologo; yeo e gatelelago kgetho yeo e kaonetšwago le mabaka a yona;
- Bapatša go ba gona ga Sethalwa sa EIR le EMPr ka gare ga dikuranta tša selegae le tša selete;
- Phatlalatšo ya Sethalwa sa EIR le EMPr, go akaretšwa Mathata le Pego ya Diphetolo, go fana ka ditshwaotshwao;
- Kopano ya bakgathatema ka lefelong la protšeke go fana ka kakaretšo ya dikhumano tša EIR tša ditshwaotshwao tša bakgathatema; le
- Phatlalatšo ya EIR ya Mafelelo le EMPr go fa ditshwaotshwao.

EIR le EMPr di tla phethwa gomme tša romelwa go DEA go tšea sephetho.

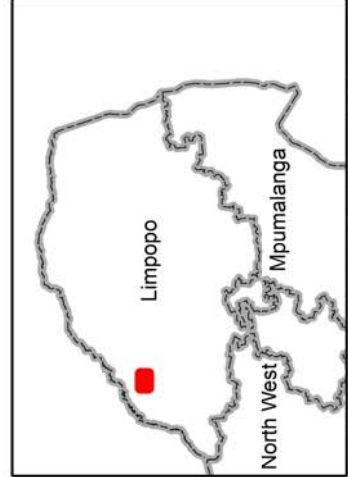
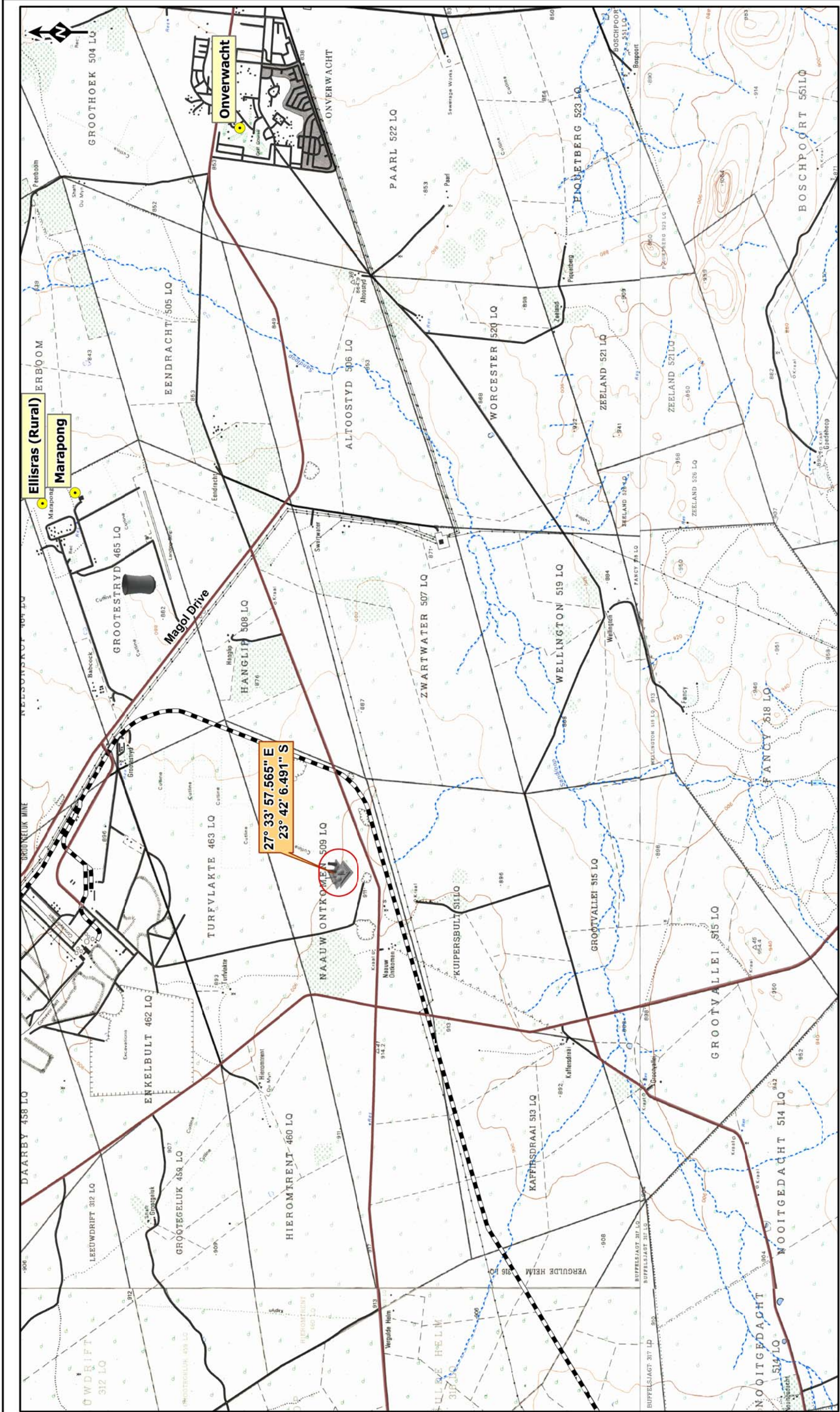
GO TŠEA SEPHETHO (TUMELELO YA TIKOLOGO)

Se se akaretša go tsebiša I&Aps tše di ngwadišitšwego ka ga sephetho seo se tšwago go Mmušo wa Bokgoni, Kgoro ya Merero ya Tikologo (DEA) mo lebakeng le. DEA e swanetše go amogela goba go ganetša pego ye mo matšatšing a 105. Bakgathatema ba tla tsebišwa ka ga sephetho sa DEA ge eba Tumelelo ya Tikologo e filwe goba aowa gape le ka ga mokgwatshepetšo wa ngongorego ge eba ba nyaka go dira ngongorego go sephetho.

Ditshwaotshwao tša gago di bohlokwa

Mohola wa Kelo ya Seabe sa Tikologo ke go fana ka tshedimošo ka botlalo go sehlopha sa go tšea sephetho yeo ba ka go thea sephetho sa bona godimo go fana goba go ganetša ka Tumelelo ya Tikologo gomme ge e fiwa, go hlalosa maemo a tšwetšopele. Dineelano tšeo di filwego ke bakgathatema go tšwa dikarolong ka moka tša setšhaba di tla netefatša sephetho seo se sedimošitšwego.

O mengwa go kgatha tema ka tokologo le go romela ditshwaotshwao dife goba dife goba tshedimšo yeo o ikwago e ka ba mohola go tshepetšo ya EIA. Mekgatlo yeo e ngwadišitšwego ya kgahlego le yeo e amegago e na le toka ya go fa thswaotshwao, ka go ngwala, godimo ga dithomelo ka moka tša go ngwalwa go ya go pušo ya bokgoni (DEA) le go tsebiša pušo ya bokgoni, mathata afe goba afe ao mokgatlo a tshewago gore a ka ba mohola go šedi ya kgopelo.



LEGEND

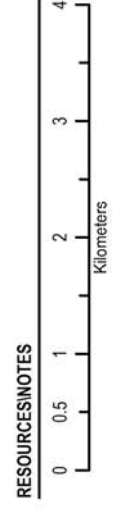
- Place Names
- Medupi Power Station
- Matimba Power Station

ROADS

- Regional road
- Main road
- Secondary road
- Streets and other access

Place Names

- Rail
- Non Perennial Rivers
- Perennial Rivers



PROJECT
MEDUPI FGD

TITLE
LOCALITY MAP

GIS	VR	23/04/2014	PROJECT No. 12949
CHECK	SM	23/04/2014	SCALE 1:65 000
REVIEW		23/04/2014	A3
			REV 0

REFERENCE
PROJECTION GCS WGS 1984

DRAFT

NGWADIŠO LE LETLAKALA LA DITSHWAOTSHWAO

Kelo ya Seabe sa Tikologo le Kgopelo ya Laesense ya Taolo ya Ditšhila ya Tselatshepetšo ya Tsenyogape yeo e šišintšwego ya Hlwekišo ya Gase ya Tšhimini (FGD) Setešieneng sa Medupi sa Mohlagase (DEA Ref.No.: 14/12/16/3/3/3/110)

(e tsentswe ka gare ga Tokumente ya Tshedimošo ya Kakaretšo)

June 2014

Kantoro ya EIA ya Bokgathatema bja Tshedimošo

Nicolene Venter / Bongani Dhlamini
Zitholele Consulting (Pty) Ltd
P O Box 6002, Halfway House, 1685
Tel: (011) 207 2060
Fax: 086-676-9950

E meile: publicprocess@zitholele.co.za

O kgopelwa go tlatša pele ga Mošupologo wa 07 Julae 2014 gomme o buše go Kantoro ya EIA ya Bokgathatema bja Setšhaba (go ya ka moo go laeditšwego ka godimo)

THAETLELE		LEINA	
SEFANE			
MOKGATLO goba TSHEDIMOŠO YA MOAGO			
ATERESE YA POSO		KHOUTU YA POSO	
		NOMORO YA FEKES	
NOMORO YA MOGALA		NOMORO YA FEKES	
NOMORO YA MOGALATHEKENG			
ATERESE YA E-MEILE			

O kgopelwa gore le **ngwadiše semmušo bjalo ka mokgatlo wo o nago le kgahlego le/goba amegago (I&AP)** gore ke kgone go amogela tshedimošo le ditsebišo tshepetšong ya Kelo ya Seabe ya Tikologo

EE

AOWA

Ke rata go amogela ditsebišo tša ka ka

Lengwalo (poso)

Emeile

Fekese

Mogala

Ke rata go amogela ditokumente tša ditshwaotshwao ka tsela ye e latelago

Ka emiele

Godimo ga CD

Go ya ka Melawana ya GNR 543 - 546 – Kuranta ya Mmušo ya 33306 ya 18 June 2010 (**melawana ya tshepetšo ya EIA**) Ke tsebiša kgwebo efe goba efe yeo e lebanego le nna thwii, matlotlo, mong goba dikgahlego dife goba dife tšeo nka ba go le tšona ka go tumelelo goba kganetšo ya kgopelo:



DITSHWAOTSHWAO (o kgopelwa go diriša matlakala a go fapana ge o nyaka)

Ke šišinya gore ditaba tše di latelago di nyakišišwe ka gare ga Kelo ya Seabe sa Tikologo:



Le kgopelwa go ngwadiša badirišanikanna/baagišane ba ba latelago godimo ga datapeisi ya protšeke:

**INTEGRATED ENVIRONMENTAL AUTHORISATION
(Environmental Impact Assessment and Waste Management License Application)
for the proposed Medupi Power Station Flue Gas Desulphurisation Project**

Table 1: Distribution of BIDs and placement of site notices in Lephalale

Item	Description of the location of notice & GPS Coordinates	Picture / Photo
1	BID placed in post box at 35 Bosehla Street, Onverwacht, Lephalale	
2	BID delivered and project discussion with resident at 23 Bosehla Street, Onverwacht, Lephalale.	


**INTEGRATED ENVIRONMENTAL AUTHORISATION
(Environmental Impact Assessment and Waste Management License Application)
for the proposed Medupi Power Station Flue Gas Desulphurisation Project**

Item	Description of the location of notice & GPS Coordinates	Picture / Photo
3	Mediclinic, Lephalale GPS: S23°41'11.9 E027°41'54.1	
4	Marula Bus Stop, Lephalale GPS: S23°41'21.8 E027°42'04.4	

**INTEGRATED ENVIRONMENTAL AUTHORISATION
(Environmental Impact Assessment and Waste Management License Application)
for the proposed Medupi Power Station Flue Gas Desulphurisation Project**

Item	Description of the location of notice & GPS Coordinates	Picture / Photo
5	<p>Super Spar (shopping square), Joe Slovo Street, Lephalale</p> <p>GPS: S23°41'13.7 E27°42'01.4</p>	

**INTEGRATED ENVIRONMENTAL AUTHORISATION
(Environmental Impact Assessment and Waste Management License Application)
for the proposed Medupi Power Station Flue Gas Desulphurisation Project**

Item	Description of the location of notice & GPS Coordinates	Picture / Photo
6	Lephalale Municipality, Cnr Joe Slovo Street & Douwater Avenu, Lephalale GPS: S23°41'11.2 E027°41'47.6	

**Integrated Environmental Authorisation for environmental
authorization and waste management license application for the
Flue Gas Desulphurisation at Medupi Power Station, Lephalale
Municipality, Limpopo Province
(DEA Ref. No.: 14/12/16/3/3/3/110)**

Notice is hereby given in terms of the National Environmental Management Act (Act No 107 of 1998) and Government Notice R.543 – 546 of June 2010 and the National Environmental Management: Waste Act (Act 59 of 2008) as amended 2010, of Eskom's intent to carry out an integrated environmental impact assessment for the purposes of Environmental Authorisation and Waste Management Licensing of activities associated with the retrofitting of a Flue Gas Desulphurisation (FGD) system to the existing Power Station operation.

The application includes, but is not limited to, the following activities and associated infrastructures:

- The byproducts from the activity FGD process will include gypsum, sludge and salts which will be co-disposed of at the existing Ash Disposal Facility (ADF) at the Power Station;
- Storage of limestone at the Power Station;
- Storage and handling of gypsum, sludge and salts at the Power Station;
- Waste water treatment within a Zero Liquid Discharge system;
- Construction of a conveyor belt for the transportation of waste to the ADF, access and maintenance roads to the ADF;
- Retrofitting of FGD technology to remove sulfur dioxide from the exhaust flue gases; and
- The addition of FGD Systems to the six (6) Generating Units.

A Water Use License Application (WULA) will also be submitted later within the process in accordance with the National Water Act (Act 36 of 1998) as amended.

The purpose of this EIA and WULA process is to identify and evaluate issues of concern and potential environmental and social impacts, and to propose feasible mitigation measures against such impacts.

PUBLIC COMMENT ENCOURAGED

**You are requested to register as an Interested and/or Affected Party (I&AP)
and are invited to participate by providing comments and raising any issues
of concern that you may have.**

To register as an I&AP, and to receive a copy of the Background Information Document, please contact:

Tricia Njapha/Bongani Dhlamini
Zitholele Consulting (Pty) Ltd
P O Box 6002, Halfway House, 1685
Tel: (011) 207 2060
Fax: 086-676-9950
Email: publicprocess@zitholele.co.za



This advert is prepared on behalf of Eskom Holdings SOC Limited

Steady going at Boikarabelo

STEENBOKPAN — The Boikarabelo field in South Africa's Waterberg region, to the north of the country and close to the border with Botswana, is an outstanding coal asset by any standards. An extensive coal seam, between 120 and 130 metres in depth and containing zones of varying quality thermal and soft coking coal, lies only 20 metres below the surface in terrain that is flat and easy to get at. It is the ideal site for an open pit mine: the shallow overburden means that a small fleet of equipment can produce a lot of coal. Costs will be relatively low, and multiple mining benches will provide the flexibility to extract the coal quality required for a variety of markets, from thermal coal used in power stations in Asia where capacity is confidently expected to continue rising over the coming decade to South Africa itself where there is an insatiable demand.

Nevertheless, with the international coal market currently more nutty slack than briskly blazing, this is a time when only the most outstanding new projects can attract funding. When they last reported on the Australian and JSE joint listed mining company Resource Generation (ResGen) its focus was on locking down its funding arrangements, and this remains its principal challenge today despite solid progress to date. "We hope to complete our funding by June of this year," says Managing Director Paul Jury. "We are concentrating on funding

the coal handling and preparation plant (CHPP). If we can achieve that we will be able to stick to the development programme and start producing coal at the end of 2015."

At around \$200 million the CHPP is the largest capital item for the Boikarabelo project. In November the company took a major step when it agreed to terms and the design and supply of the plant. Earlier this year it put another piece of the jigsaw in place with the agreement of a \$65 million infrastructure loan facility from Noble Resources International, a subsidiary of Singapore-listed global agricultural and mining supply-chain manager Noble Group, which as part of the agreement has undertaken to purchase three million tonnes of domestic middlings coal every year, for eight years after production commences. This loan is repayable by 31 March, 2016, by which time the mine is expected to be in production and generating cash flow, and is in addition to a \$55.3 million loan from Noble, agreed in July 2013, for the construction of the rail link from Boikarabelo to the existing Transnet Freight Rail network.

The CHPP will crush, screen and grade the coal, stockpiling it into two main categories. Coal for export will be loaded onto rail trucks for transportation to the ports, while thermal coal for domestic use in the power generating stations of Eskom in Mpumalanga will be supplied direct, also by rail. Jury is hoping to resolve the remaining funding

Going International

Rosina Nku

MARAPONG — Given Kekana is only 22 years old but his dreams are as big as the world. The 22 year old lad is known by his fans as Mampimpana.

Given "Mampimpana" Kekana was born and bred in Lephalale. From the early age of 12 he realized that he was music head and would often sing to his friends imitating other famous stars. According to him mimicking other artists was just a hobby, until he was approached by a friend urging him to record at least one track. "And the rest is history" said Mampimpana.

'Ranta e wele' (the Rand is one the ground) is one of the first songs he wrote. He simply did it for the love of music not knowing how the audience would react.

Although still in the process of recording an album the hit track 'ranta e wele' has awarded him a chance to share the stage with award winning artists like Ifani, Khuli Chana, Dr Malinga, Dj Tira, Tear Gas, Catchtimefab, Dj Sbu and many more.

In all his rap songs Mampimpana has written his own lyrics inspired by the life of the township/ghetto. His hit song 'ranta e wele' was inspired by the opportunities that often surpass people because mostly sit and wait for free handouts. "The world doesn't owe us anything, it's up to us to pick ourselves up and make something of ourselves. Get up youth and do something with your life," said Mampimpana.

Mampimpana's most anticipated upcoming album will be a big pot of mixed ingredients as he will be doing rock, gospel and hopefully a song in Afrikaans to cater for the mass target audience of course.

Mampimpana is currently studying a Diploma in Safety Management to have something to fall back on if all else fails "just in case things don't work out" he

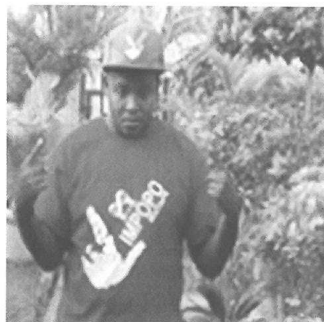
said jokingly. The rapper admits that the road to success is unforeseen and difficult but he will never give up on his talent. Coming from a small town only gives him that much more courage because he is person who loves to break the walls of "impossible". "Youngsters need to research and work hard at their talent. We can't all be engineers and have office jobs" said Given.

A couple of years ago Given started an organisation (Mo'Swagg Entertainment) for aspiring artists to get a platform and develop themselves. The organisation is more of Edu'tainment mainly to keep the youth busy and reduce the abuse of drugs and alcohol and teenage pregnancy.

In the far future Mampimpana still sees himself in the music industry which is his passion, although behind the scenes.

His dream is to develop and uplift the unprivileged and help give people a head start into their dreams as artists.

Mampimpana acknowledges that being a new artist can be very challenging and most promoters don't want to pay for performances. Although giving up is not an option at the moment as he knows and loves music and is aiming for the international market.



Given Kekana (Photo Mogol Post)

Rassies groet

LEPHALALE — Dis met groot hartseer dat die personeel en leerders van Laerskool Ellisras afskeid neem van 'n geliefde "juffrou" en kollega, Katinka Heyns. Volgens die skool het Katinka gereeld by die Rassies afgelos en dan het sy haar gewig 100% ingegooi. Niks was ooit te veel vir haar nie. Sy was vroeër hoofmeisie by die skool, het later haar prakties gedoen en was nog later ook 'n ouer van die skool.

Die skool bedank haar vir haar bereidwilligheid, positiewe ingesteldheid en passie vir die skool



en leerders.

Hulle wens vir Katinka is God se seën en beskerming met haar en haar gesin se nuwe uitdaging en avontuur wat voorlê.

issues sooner rather than later so he can concentrate on the work of building the mine, the processing plant and the associated infrastructure, including road and rail links. The project itself is one of the soundest on the planet, which is evidenced by the fact it has continued to remain buoyant at a time when others have been mothballed or abandoned.

Boikarabelo is of strategic importance to the economy of South Africa. The mine is only 40 kilometres by road from an existing rail system that provides access to domestic markets, and Transnet is making all efforts to ensure that its lines have the capacity to transport the coal to the ports of Durban, Richards Bay and Maputo, which all have potential to expand their coal capacity, for export shipments. The

proposed new trans-Kalahari railway (TKR) from Walvis Bay to Botswana will give access to the Atlantic though that is an early stage project that was only given the go-ahead by the partner governments in March.

The 40 kilometre rail link that ResGen is building to connect Boikarabelo with the main line is also a long lead item, like the CHPP, however the ground work is well under way says Jury. In fact the site is a hive of activity already, and that activity will increase right up to the start of mining at the end of next year. "We have a lot of construction going on on site," he says. "Apart from the rail link, we have already built the first stage of our construction camp."

Continue on page 16 >>

**VENTER VORSTER
VAN DER WALT INC.**
Attorneys/Prökureurs

Jan Venter
083 644 9466
Kantoor 014 763 1571
Ellisstr. 13
www.vattorneys.co.za



HET JY GEWEET?

Mogol Pos versprei weekliks
5 050 koerante in Lephalale en omgewing!

INTEGRATED ENVIRONMENTAL AUTHORISATION FOR ENVIRONMENTAL AUTHORIZATION AND WASTE MANAGEMENT LICENSE APPLICATION FOR THE FLUE GAS DESULPHURISATION AT MEDUPI POWER STATION, LEPHALALE MUNICIPALITY, LIMPOPO PROVINCE

(DEA Ref. No.: 14/12/16/3/3/110)

Notice is hereby given in terms of the National Environmental Management Act (Act No 107 of 1998) and Government Notice R.543 - 546 of June 2010 and the National Environmental Management: Waste Act (Act 59 of 2008) as amended 2010, of Eskom's intent to carry out an integrated environmental impact assessment for the purposes of Environmental Authorisation and Waste Management Licensing of activities associated with the retrofitting of a Flue Gas Desulphurisation (FGD) system to the existing Power Station operation.

The application includes, but is not limited to, the following activities and associated infrastructures:

- The byproducts from the activity FGD process will include gypsum, sludge and salts which will be co-disposed of at the existing Ash Disposal Facility (ADF) at the Power Station;
- Storage of limestone at the Power Station;
- Storage and handling of gypsum, sludge and salts at the Power Station;
- Waste water treatment within a Zero Liquid Discharge system;
- Construction of a conveyor belt for the transportation of waste to the ADF, access and maintenance roads to the ADF;
- Retrofitting of FGD technology to remove sulfur dioxide from the exhaust flue gases; and
- The addition of FGD Systems to the six (6) Generating Units.

A Water Use License Application (WULA) will also be submitted later within the process in accordance with the National Water Act (Act 36 of 1998) as amended.

The purpose of this EIA and WULA process is to identify and evaluate issues of concern and potential environmental and social impacts, and to propose feasible mitigation measures against such impacts.

PUBLIC COMMENT ENCOURAGED

You are requested to register as an Interested and/or Affected Party (I&AP) and are invited to participate by providing comments and raising any issues of concern that you may have.

To register as an I&AP, and to receive a copy of the Background Information Document, please contact:

Nicolene Venter/ Bongani Dhlamini
Zitholele Consulting (Pty) Ltd
P O Box 6002, Halfway House, 1685
Tel: (011) 207 2060
Fax: 086 676 9950
email: publicprocess@zitholele.co.za

ZITHOLELE
CONSULTING

This advert is prepared on behalf of Eskom Holdings SOC Limited

Integrated Environmental Authorisation (Environmental Impact Assessment and Waste Management License Application) for the Flue Gas Desulphurisation at Medupi Power Station, Lephalale Municipality, Limpopo Province (DEA Ref. No.: 14/12/16/3/3/3/110)

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PUBLIC COMMENT AND REVIEW OF DRAFT SCOPING REPORT

The DSR will be available for review and comment from **Monday 27th October 2014 to Friday 05 December 2014**. The DSR is available at the following public places:

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Lephalale Local Municipality, Civic Center, Onverwacht, Cnr Joe Slovo and Douwater Road, Lephalale	Tel.: 014 762 1409
Marapong Community Library, 143 Chris Hani Street, Marapong	Tel.: 014 768 3927
Lephalale Farmers’ Association, NTK Building, 1 Jan Louis Botha Avenue, Lephalale	Tel.: 014 763 1888

INVITATION TO PUBLIC MEETINGS

You are invited to attend any one of the two Public Meetings where the summary of the potential environmental impacts, as documented in the DSR, will be presented and discussed. The Public Meetings will be held as follows:

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In Loving Memory of

Anthony Francisco Agrela



4 MARCH 1981 - 7 OCTOBER 2014

Anthony our hearts are broken. Everyday a disabled that you are really gone. Your peaceful & kind nature will always stay with us. We are so grateful for the time we had with you. You are so sorely missed! We will always cherish all the many wonderful memories we have of you. Rest in peace, our dear, sweet, kind, Anthony.

- Manny, Rose, Danielle, Ronaldo, Chris & Tania & all the staff of OK Grocer Marula.

Third on the provincial ladder

Mokopane Primary School's u/13 netball team achieved a third place in the recent Provincial Netball games.

The team's coaches, Catrien Gerritsen, Martha Mothwa and Frida Letjiko described the games as very tough.

They congratulated Lindi Lakalakala, Tsegofatso Kganyago and Kgaogelo Maboya for being chosen for next year's Provincial team.

Right: Mokopane Primary School's netball coaches with their u/13 netball team who's excellent tactics assured them a third place at the recent Provincial Netball games. They are in no specific order, Lindi Lakalakala, Elizabeth Senwamadi, Tsuma Sekwakwa, Jessica Matjiu, Lethabo Kutumela, Khensani Maimela, Kgaogelo Maboya, Keitumetse Chokwe, Lethabo Nekana, Tsegofatso Kganyago, Thato Mabisela and Molatelo Kutumela.



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Jong atlete presteer

Tien atlete van Laerskool Krugerpark in Mokopane het op 11 Oktober aan die jaarlikse Prisma Comms/Jewaskiewitz atletiekbyeenkoms by die Peter Mokaba sportstadion in Polokwane deelgeneem en hulle uitstekend van hulle taak gekwyf.

Hulle uitslae is soos volg:
Keanu Potgieter het 'n skitterende derde plek verower in die 60m vir seuns o/7. Heygers Ferreira het 'n vierde plek behaal in die 60m vir seuns o/7. Janko Abrahamse het die 80m vir seuns o/8 gewen en ook 'n derde plek opgegraap vir sy deelname aan die 60m vir seuns o/8. Lewalt Ferreira het twee 4de plekke behaal in die 60m en 80m vir seuns o/8.

In die 60m vir meisies o/9 het Jana Nel 'n tweede plek behaal. Nel spog ook met 'n eerste plek in die 80m vir meisies o/9.

RC Beetge het die verspring vir seuns o/10 gewen en ook 'n derde plek behaal vir sy deelname aan die 70m vir seuns o/10. Nachele Beetge wen die verspring vir meisies o/11 en behaal 'n tweede plek in die 70m hekkies vir meisies o/11. Sy het ook 'n derde plek vir beide haar deelname aan die 80m sowel as die 100m vir meisies o/11.

Wilma Nel spog met twee 1ste plekke vir gewigstoot en diskus (o/12). Sy het ook twee 2de plekke vir verspring en die 150m vir meisies o/12. Onnie Molamu het in die o/12 ouderdomsgroep vir homself 'n wen plek verseker in die 150m en 'n tweede plek in die 75m hekkies. Hy het ook 'n derde plek behaal vir sy deelname aan verspring asook vir 100m.



Atlete van Laerskool Krugerpark wat goed presteer het tydens 'n atletiekbyeenkoms in Polokwane. Voor van links, Keanu Potgieter en Heygers Ferreira. Tweede ry, Janko Abrahamse, Lewalt Ferreira en Mikyia Potgieter. Derde ry, RC Beetge, Nachele Beetge en Jana Nel. Agter, Onni Molamu en Wilma Nel.

NOTICE OF CONSULTATION AND ENVIRONMENTAL MANAGEMENT PLAN INVITATION TO PARTICIPATE

Notice is given in terms of Section 10 of Mineral Resources Development Act (act no 28 of 2002)) in order to carry out the following activity:

KIRIVOX (PTY) LTD have applied for a prospecting right in terms of Section 16 of the Minerals and Petroleum Resources Development Act 28 of 2002. The application covers the farms: ROOIGOUD 66 LQ, JULIETA 112 LR AND WELTEVREDEN 91 LQ situated in the magisterial district of LEPHALALE, LIMPOPO PROVINCE, RYSWYK 240 MS situated in the magisterial district of MUSINA, the applications has been lodged for prospecting of COAL, with DMR Ref LP 30/5/1/1/2/12187 PR, LP 30/5/1/1/2/12189 PR, LP 30/5/1/1/2/12188 PR AND LP 30/5/1/1/2/12186 PR

You can be involved in the Public Participation Process by:

- Sending a fax, email or mail with your name, contact details and concerns/questions relating to the project.
- Providing us with the names of additional people that can be contacted.

All correspondence, which should be received on or before **04th NOVEMBER 2014** will be submitted to the DMR. All issues raised during the public participation process will responded to in writing to the Interested and Affected Parties (IAPs).

CORRESPONDENCE MAY BE DIRECTED TO: PAUL TSHAMANO
EMAIL: mbahip@gmail.com
FAX: 086 715 2735

Fit pensioners impress



The department of sport, art and culture in collaboration with the social development and health departments presented a 'golden games' event for pensioners in Mahwelereng. This campaign is aimed at encouraging healthy living for the elderly. The golden games were established in 2006 and the Mahwelereng pensioners association joined in 2012. Some of the games they play include ball relay, duck-and-wall, passing the ball, rugby throw, 100m, 200m and more. The group consists of 43 members with the oldest player being 77-years-old. The Mahwelereng pensioners participated in the provincial games in Polokwane where they won in the Ball relay. They will represent Limpopo in the national games in Mpumalanga this month. These dedicated players practice twice a week and say that the activities keep them full of life. - Itumeleng Lekganyane

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BUSINESS AS USUAL: Marapong shopping centre built at the tune of an estimated R70 million open its doors to a hordes of customers at the end of this month

By Wilson Ramothata

About 500 people were expected to be employed before the new Marapong shopping centre built at the tune of an estimated R70 million open its doors to a hordes of customers at the end of this month.

The much-awaited complex, adjacent to Spar Supermarket has been designed to bring local and national retailers to the community of the sprawling Lephale township in a modern conveniently located area was built by Pistorius Group - a family-owned business established in 1980, trading under commercial property developer's industry. Mix tenants are Ok Furniture, Nizams, OBC, Chesa Nyama, Cashbuild, Dstv agent, Capitec Bank and variety of local shops and other businesses, including retail clothing shops, Bilftong kiosk, Medical Centre, local furniture shops and Beauty Saloon.

The Group manager Theo Pistorius told *Business Express* all the shops were almost occupied by tenants, saying they have not yet made decision of the two remaining office space in the

centre.

"We are looking at the tenants who will complement the shopping centre and other business in the complex. Someone who will draw more feet to the centre," said Pistorius.

According to Pistorius, the complex would not only employ shop assistants and management but also security officers and cleaners would form part of the staff complement at the new centre.

"Security and cleaners at the centre is going to escalate, and most likely to double," he said.

An upbeat Pistorius said they were excited about the prospect to have developed the shopping centre which took them five years of planning, more especially after the Group had just built another complex in Namakgale near Baphalaborwa.

"It gives the Pistorius Group great satisfaction in bringing luxury to local communities to buy everything they need within a walking distance. We have been busy with this project for almost five years," he said.

"We were lucky to get additional electricity six months ago which enabled us take the project forward. We are trying to address

our local buyer's needs with reference to our tenants mix."

He added that they were very excited that almost everything needed would be available to the local community of Marapong.

"The number of ATM's will increase from four to 12," said Pistorius.

Pristorius Group did several developments in Lephale and is currently co-owners of shopping centres in the Central Business District including Standard Bank Building, Shoprite, Boxer, Cash Build, and Fruit & Veg, which also created hundreds of jobs.

He said several hundreds of people were also employed by the main contractor and sub-contractors during the construction of Marapong shopping complex.

Asked how much Pistorius assets are worth in Lephale alone, Pistorius said as a family business they believed calculating what they worth was the first step to lose everything they worked for over the years.

"We believe in being humble because what we have was given to us by God. I just want to mention that He is great and we thank Him for all our blessings," said Pistorius.

Groot vis, klein hoek



LEPHALALE — Douw Oosthuizen het hierdie 9kg karp in die Mogolrivier gevang en vrygelaat. Hy het soos sy gewoonte is die karp met die kleinste hoek en dunste lyn uitgetrek.



Die GPF-vergadering was goed verteenwoordig deur buurtwaglede en rolspelers uit die gemeenskap

(Foto Mogol Pos)

MOGOL CLUB VACANCY:
LIFE SAVER - PART TIME (Weekends)
 Applications are awaited for suitable candidates for the above mentioned positions:
Minimum criteria required:
 • Grade 10 or equivalent NQF qualification;
 • Bilingual;
 • Good communication skills;
 • Must be able to work weekends;
 • Must be a very good swimmer.
 Life saving and First aid training will be an advantage.
CLOSING DATE: 30 October 2014
SALARY: Salary to be negotiated on proof of prior experience
 Mogol Club reserves the right not to make an appointment. If you do not hear from us within two weeks after closing date please consider your application as unsuccessful.
 Please hand in CV's at the Mogol Club offices, c/o Nelson Mandela Avenue and George Wells Avenues, Onverwacht, Lephalale.

VENTER VORSTER VAN DER WALT INC.
 Attorneys/Prokureurs
 Jan Venter
 083 644 9466
 Kantoor 014 763 1571
 Ellisstr. 13
 www.vatorneys.co.za

DINSDAG IS SAKDAG!
 Smalls moet Mogol Pos op Maandae voor 16:00 bereik. Stuur smalls na admin@mogolpos.co.za
 (Geen telefoniese en sms-smalls word aanvaar nie)

GPF – die nuutste!

Leoni Kruger
LEPHALALE — Die opkoms by die vergadering van die gemeenskapsopleidingforum (GPF) verlede Donderdag 16 Oktober by Mogolklub was verblydend. Verskeie buurtwaglede asook rolspelers vanuit die gemeenskap het dit bygewoon.

Besonder goeie nuus was die bekendstelling van Lt. Col. M.J. Matsaung, Lephalale SAPD se splinternuwe stasiebevelvoerder. Die eerste vaste stasiebevelvoerder-aanstelling in twee jaar.

Die SAPD het terugvoer gegee dat huisbrake in die Onverwacht-omgewing drasties afgeneem het sedert die buurtwag gestig is, maar dat daar steeds baie huisbrake in ander sektore aangemeld word. Volgens die polisie was diefstalle uit voertuie en diefstalle van voertuie asook inbrake in kantore by Medupi verlede week aan die orde van die dag.

Verskeie voorvalle van motorkapings het ook in Marapong voorgekom. Een persoon is dood in 'n onlangse voorval. Dit is genoem dat van die kapers 'n ou blou polisielig gebruik het om die voertuig van die pad af dwing.

Die polisie het ook bevestig dat "operasie feesseisoen" amptelik begin op Woensdag 22 Oktober.

Nog goeie nuus was dat 'n lid van die gemeenskap 'n splinternuwe gebou van 360m² vir drie jaar gratis aan die GPF beskikbaar gestel het om as beheerkamer te gebruik. Die gebou behoort teen die einde van November gereed te wees om in te trek. Dit sal dien as 'n 24-uur beheerkamer vir die hele gemeenskap met 'n noodnommer.

Van die lede het genoem 'dat leegstaande huise en erwe ideaal vir misdadigers is om as skuilplek te gebruik. Die leë area wat na die Zeelandprojek lei, is 'n misdaadnes en 'n broeiplek vir onheil, is ook gesê.

Die GPF het onderneem om 'n brief aan Exxaro te skryf aangesien dit hulle grond is.

Die onwettige karwassers in Onverwacht oorkant Nguni Grill en Matimba Apteek is ook weer geopper en daar is bevestig dat dit wel munisipale eiendom is. Van die verteenwoordigers van Lephalale Munisipaliteit het onderneem om dit met die regte partye op te neem.

Die volgende GPF-vergadering vind Donderdag 20 November om 14:00 plaas by die Mogolklub.

SUDOKU

(xword@xword.co.za)

Moelikhheidsgraad: Koue pampoens
 Voltooi die rooster sodat elke kassie en elke ry dwars en af die syfers 1 – 9 bevat. Let wel daar mag geen syfer twee keer in dieselfde ry of blokkie verskyn nie.

	1	3						
			9					
5		3	4	2	8	9	6	
	2		7	5				
		8			6			5
3			8			7	2	
9		1	6			5		3
8							1	6
2	6	5			4			7

Verlede week se oplossing:

5	3	9	6	8	1	2	4	7
7	6	1	4	3	2	5	8	9
2	8	4	7	5	9	6	1	3
1	4	2	5	6	3	9	7	8
8	9	6	2	4	7	3	5	1
3	7	5	1	9	8	4	2	6
4	2	3	8	7	6	1	9	5
6	5	8	9	1	4	7	3	2
9	1	7	3	2	5	8	6	4

Om hier te adverteer, kontak ria@mogolpos.co.za of skakel 084 206 8492

Integrated Environmental Authorisation (Environmental Impact Assessment and Waste Management License Application) for the Flue Gas Desulphurisation at Medupi Power Station, Lephalale Municipality, Limpopo Province

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DAYS PRING YOUTH CENTRE
 Lephale Prophetic Night of Destiny with
 Pastor Bickson Aguru, Pastor Shadrach De-Deo, Pastor Tshepo
 featuring Worship, Word and Wonders
My Change has Come
 7:00pm - 10:00pm | 31st October, 2014
 Venue: 3311 Regent St, Onverwacht, Lephalale, Limpopo 0555
 For more info: 084 927 0268, 084 877 8259
www.dayspringcentre.co.za giving help, hope and healing to the world

Appendix F-1 B: EIR Phase

**ENVIRONMENTAL IMPACT ASSESSMENT, VARIATION TO EXISTING WASTE MANAGEMENT LICENCE, AND WATER USE LICENCE APPLICATION FOR THE PROPOSED RETROFITTING OF A FLUE GAS DESULPHURISATION (FGD) SYSTEM AT MEDUPI POWER STATION, LEPHALALE, LIMPOPO PROVINCE
(DEA REF: 14/12/16/3/3/3/110)**

Eskom Holding s SOC Limited intends to retrofit the Medupi Power Station with a Flue Gas Desulphurisation (FGD) system, and construct a rail yard, limestone and gypsum handling facilities and associated infrastructure within the Medupi Power Station footprint.

An EIA process is being undertaken in terms of the National Environmental Management Act, No 107 of 1998, and Government Notice R.543 - 546 of June 2010, as emended, for the aforementioned proposed activities. An application for amendment of the existing Waste Management Licence (WML) for the power station is also currently underway in terms of the National Environmental Management: Waste Act (Act 59 of 2008) as amended, while a Water Use License Application (WULA) is being undertaken for water uses relating to sections 21(c), 21(i) and 21(g) of the National Water Act, 36 of 1998, as amended. All Interested and Affected Parties (I&APs) are hereby notified of the availability of the Draft Environmental Impact Report (DEIR), WML Variation Application, and WULA.

The DEIR is available for review and comment from 19 February 2018 to 5 April 2018 (40 days). The WML Variation Application is available for review from Monday, 5 March to 9 April 2018 (30 days). The DEIR and WML Variation Application is available at the following public places:

VENUE	CONTACT DETAILS
Lephalale Public Library, Civic Centre Onverwacht, Cnr Joe Slovo and Douwater Road, Lephalale	Tel.: 014 762 1484/1453/1518
Marapong Community Library, 916 Phukubye Street, Marapong	Tel.: 073 210 8954
Lesedi Tshukudu Thusong Centre, Steenbokpan	Tel.: 082 927 2399
Agri SA, NTK Building, 1 Jan Louis Botha Avenue, Lephalale	Tel.: 014 763 1888

The DEIR and WML Variation Application are available for download from Zitholele's website (www.zitholele.co.za/environmental/) under heading "EIA for Medupi FGD". I&APs are invited to attend any one of the three Public Meetings where a summary of the EIA process, WML Variation and WULA findings and recommendations will be presented and discussed. The Public Meetings will be held as follows:

DATE	TIME	VENUE
Monday, 12 March 2018	11:00-13:00 (Registration from 10:30)	Community Hall, Lesedi Tshukudu Thusong Centre, Steenbokpan. Tel: 082 927 2399
Monday, 12 March 2018	15:00-17:00 (Registration from 14:30)	Ditheku Primary School, 1601 Ramahlody Street, Marapong Ext 2
Tuesday, 13 March 2018	18:00-20:00 (Registration from 17h30)	Mogol Golf Club, George Wells St., Onverwacht, Lephalale. Tel: 014 763 2427

Public Participation Office Contact Details: Dr. Mathys Vosloo / Ms. Lebo Petlane, Zitholele Consulting (Pty) Ltd, P O Box 6002, Halfway House, 1685
Tel: 011 207 2060, Fax: 086 674 6121, Email: fgd@zitholele.co.za

Mathys Vosloo

From: Mathys Vosloo
Sent: Thursday, 15 March 2018 8:42 AM
To: 'Taryn Abramson'
Subject: RE: 15008 Qoute for placement of advertisements

Importance: High

Hi Taryn,

Thanks for placing out advertisement in the Mogol Post on 9 March 2018.

The other publications after 9 March will come a bit late for the process we are following so I think the Mogol Post publication will suffice.

Thanks

Kind regards,

Dr. MATHYS VOSLOO [Pr.Sci.Nat.]
Senior Environmental Scientist



Building 1, Maxwell Office Park, Magwa Crescent West, Waterfall City, Midrand, RSA
T: +27 11 207 2060 | F: +27 86 674 6121

C: +27 84 748 3018 | **E: mathysv@zitholele.co.za**

W: www.zitholele.co.za

Please consider the environment before printing this e-mail!



From: Taryn Abramson [mailto:taryn@capro.co.za]
Sent: Tuesday, 06 March 2018 3:35 PM
To: Mathys Vosloo
Subject: RE: 15008 Qoute for placement of advertisements

Hello,

I have just been confirming my booking for Rise n Shine publication which is outsourced local publication and they have now told me that the next available date is the 16.03.2018 as it is a bi-annual publication – embarrassing for me but to which the fault is from their side as the 09.03.2018 was the date requested and discussed for this placement.

Would you still like to place it into this paper on the 16.03.2018? it is the only one that covers your area you require that I can find other than Mogol Post (booked) and Seipone which I suggested previously but is a fortnightly.

Please advise on how you would like me to proceed.

Kind regards,

Taryn Abramson

Advertising Sales Consultant

Capro (Pty) Ltd

Tel - 031 202 8432

Fax - 031 202 8433

Cell – 064 905 9983

Email: taryn@capro.co.za

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Capro (Pty) Ltd

Media Representatives

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Capro – Targeted Media Solutions

From: Mathys Vosloo [<mailto:mathysv@zitholele.co.za>]

Sent: 06 March 2018 01:42 PM

To: Taryn Abramson

Subject: RE: 15008 Qoute for placement of advertisements

Thanks Taryn,

You can send it off to the publishers.

Thanks

Kind regards,

Dr. MATHYS VOSLOO [*Pr.Sci.Nat.*]

Senior Environmental Scientist



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