



(For official use only)

File Reference Number:	
Date Received:	
Classification:	

WASTE LICENCE APPLICATION FORM
in terms of the National Environmental Management: Waste Act, 2008 (No. 59 of 2008)

SECTION 1: TYPE OF APPLICATION AND FACILITY

Indicate the type of application by marking with a cross and fill in the required sections only

TYPE OF APPLICATION	MARK	RELEVANT SECTIONS OF THE WASTE LICENCE
A new licence	X	Part 2 and see table of activities below for relevant sections of part 2
A licence amendment		Part 3 and Part 2 only if there are changes to the information or the applicant holds a permit issued in terms of section 20 of ECA (No. 78 of 1989) as amended.
A licence for closure		Part 4, Section 2, 3a, 3b, & 3c. of part 2 of this application form

Indicate the type of facility/operation and fill in the required sections only

TYPE OF FACILITY/OPERATION	MARK	RELEVANT SECTIONS OF THE WASTE LICENCE
Recycling and/or recovery Facility	X	All except Section 8
Storage and or transfer Facility		All except Section 8
Treatment facility	X	All except Section 8
Disposal facility		All

Activities applied for

An application may be made for more than one listed or specified activity that, together, make up one development proposal. All the listed activities that make up this application must be listed.

NO. & DATE OF THE RELEVANT NOTICE:	ACTIVITY NUMBERS:	DESCRIBE EACH LISTED ACTIVITY:
GN No. 718, 3 July 2009: Category B	4	<i>The biological, physical or physico-chemical treatment of hazardous waste at a facility that has the capacity to receive in excess of 500 kg of hazardous waste per day.</i>

	5	The treatment of hazardous waste using any form of treatment regardless of the size or capacity of such a facility to treat such waste.
	7	The treatment of effluent, wastewater or sewage with an annual throughput capacity of 15 000 cubic metres or more.
	9	The disposal of any quantity of hazardous waste to land.
	11	The construction of facilities for activities listed in Category B of this Schedule (not in isolation to associated activity).

NB: Authorisation issued will only cover activities applied for and listed above. Activities added in the middle or after the processing of this authorisation may mean a totally new application.

Application for Category A (equivalent to Basic Assessment)

Is this an application for a basic assessment (as defined in the EIA regulations)?

<input type="checkbox"/>	<input type="checkbox"/>	NO
YES	<input type="checkbox"/>	NO

If, YES, is a basic assessment report attached?

If, NO, please indicate when the basic assessment report will be submitted:

<input type="text"/>	YES	NO
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Is information required as per Appendix B1 of this form attached?

If, NO, please ensure that it is submitted together with the basic assessment report (BAR)

Application for Category B (equivalent to Scoping and Environmental Impact Assessment (EIA))

Is this an application for Scoping and EIA (as defined in the EIA regulations)?

YES	<input type="checkbox"/>
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Please indicate when the Scoping Report and Plan of Study for EIA will be submitted:

The Final Scoping Report, including Plan of Study for EIA, would be submitted to DEA in May 2010
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Please ensure that both Appendix B1 and B2 are completed and included in reports
The scoping report and/or the plan of study for EIA will be submitted after consultation with the competent authority

A consultation with the competent authority is hereby requested:

YES	<input type="checkbox"/>
<input type="checkbox"/>	NO

SECTION 2: SITE IDENTIFICATION, LOCATION AND LANDUSE

Please indicate all the Surveyor-general Cadastral Code 21 digit site (erf/farm/portion) reference numbers:

Farm Pretorius Vlei No. 374 Portions 4, 10 and 11, Farm Mooimeisjesfontein No. 376 Portions 1, 2, 4, 8 and 10 and Farm Spioenkop No 375 Portion 1

TOIS 0000 0000 0374 00004
TOIS 0000 0000 0374 00010
TOIS 0000 0000 0374 00011
TOIS 0000 0000 0376 00001
TOIS 0000 0000 0376 00002
TOIS 0000 0000 0376 00004
TOIS 0000 0000 0376 00008
TOIS 0000 0000 0376 00010
TOIS 0000 0000 0375 00001

If the property type is not surveyed, complete the following:

Full name of leader of village, community or tribal authority	N/A
Local Authority	N/A
Magisterial District	N/A
Tribal Authority/Council	N/A

Ownership of the property (mark only one with an X)

Property owned by applicant (100% Share value)	X	Property leased by applicant	
Property owned by applicant (Share value less than 100%)		The property is communal land	

Size of Site and Classification

Size of facility for a waste management activity	<i>The sizes of the waste facilities will be provided with the Scoping Report.</i>
Area where the waste management activity takes place	<i>Tutuka Power Station (Farm Pretorius Vlei No. 374 Portions 4, 10 and 11 Farm Mooimeisjesfontein No. 376 Portions 1, 2, 4, 8 and 10 and Farm Spioenkop No 375 Portion 1)</i>
Classification of facility in terms of climatic water balance	N/A.
Classification of Facility in terms of the type and the quantity of waste received	N/A.

Current land-use where the site is situated

Industrial	X	Recreation	
Agriculture		Commercial	
Residential		Mining & quarrying	
Forestry		Wilderness areas	
Wetlands		Nature area	
Open spaces			

Other current land-use: *The site is used for power generation and associated activities.*

	SECTION IN THE REPORTS WHERE RELEVANT AUTHORISATION IS ATTACHED
Is a change of land-use or a consent use application required?	NO

Must a building plan be submitted to the local authority for approval?

NO	
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Geographical coordinates of all external corner points of the site

This will be provided with the Scoping Report.

Site Address

Building Name or Number	Eskom Tutuka power station. Att: Ryno Lacock		
Street	Bethal-Standerton Road		
City/Closest Town	Standerton		
Province	Mpumalanga		
Local Municipality	Lekwa Local Municipality		
District Municipality	Gert Sibande District Municipality		
Property Description (Deeds Act or name of farm, town, city or agricultural holding)	Tutuka power station, Portions 4, 10 and 11 of the farm Pretorius Vlei No. 374, Farm Mooimeisjesfontein No. 376 Portions 1, 2, 4, 8 and 10 and Farm Spioenkop No 375 Portion 1, Standerton		
Postal address	Private Bag X2016, Standerton		
Postal code:	2430	Cell:	082 337 6290
Telephone:	017 749 5700	Fax:	017 749 5736
E-mail:	ryno.lacock@eskom.co.za		

Local authority in whose jurisdiction the proposed activity will fall:	Lekwa Local Municipality, Att: Mr Kgotso Molloung		
Contact person:	Municipal Manager		
Postal address:	PO Box 66 Standerton		
Postal code:	2430	Cell:	
Telephone:	(017) 712 9600/9619	Fax:	(017) 712 6808
E-mail:	amanda@gov.standerton.co.za		

SECTION 3: CONTACT INFORMATION

A) Person to contact about application (EAP)

First name & Surname	Mr Ashwin West / Miss Louise Corbett
Company name (if any):	Aurecon South Africa (Pty) Ltd
Company Registration/Identity number for individuals	1977/003711/07
Physical address:	81 Church St

Postal address:	Cape Town		
	PO Box 494		
	Cape Town		
Postal code:	8000	Cell:	083 661 9821 / 084 014 4893
Telephone:	021 481 2509 / 2512	Fax:	021 424 5588
Email Address	ashwin.west@af.aureocongroup.com / louise.corbett@af.aureocongroup.com		

B) Person wishing to hold licence

First name & Surname of Applicant	Ms Deidre Herbst		
Company name (if any):	Eskom Holdings (Pty) Ltd		
Company Registration/Identity number for individuals	2002/015527/06		
Physical address	Megawatt Park, Maxwell Drive		
	Sunninghill		
Postal address	PO Box 1091		
	Johannesburg		
Postal code:	2000	Cell:	083 660 1147
Telephone:	011 800 3501	Fax:	011 800 5140
E-mail:	Deidre.herbst@eskom.co.za		

C) Landowner where activity takes place

First name & Surname	Eskom Tutuka Power Station At: Mr Ryno Lacock (The applicant is the landowner).		
Company name (if any):	Eskom Holdings (Pty) Ltd		
Company Registration/Identity number for individual(s)	2002/015527/06		
Physical address	Tutuka power station, Portions 4, 10 and 11 of the farm Prelorius Vlei No. 374, Farm Mooimeisjesfontein No. 376 Portions 1, 2, 4, 8 and 10 and Farm Spienkop No 375 Portion 1, Bethal-Standerton Road, Standerton, 2430		
Postal address	Private Bag X2016, Standerton		
	2430	Cell:	082 337 6290
Telephone:	017 749 5700	Fax:	017 749 5736
E-mail:	ryno.lacock@eskom.co.za		

Operational times (assuming that this relates to the proposed facilities)

PERIOD	FROM	UNTIL
Weekdays	00:00	24:00
Saturdays	00:00	24:00

PERIOD	FROM	UNTIL
Sunday	00:00	24:00
Public holidays	00:00	24:00

SECTION 4: PROCESS/ACTIVITY DESCRIPTION

Project Title

Proposed Tutuka Power Station Brine and Groundwater Treatment Plants, Mpumalanga

Project Description

Please provide a brief description of the activities and operations at the site. Provide a flow chart of the operation showing all inputs and outputs of the process. Give particulars of the source, location, nature, composition and quantity of emission to the atmosphere, surface water, sewer, and ground-water including noise emissions. Solid waste must be in tons and specify units for liquids and gases.

Eskom is proposing to construct additional wastewater treatment facilities at the existing Tutuka Power Station. The treatment facilities would consist of two components; namely a brine concentrator plant and a groundwater wastewater treatment works (WWTW). This application deals with the groundwater wastewater treatment works and brine concentration plant.

Underground mine water from the New Denmark Colliery mine, as a result of the coal mining activities, has been sent to the Tutuka Power Station for treatment since 1989, since the power station had the facility to treat the underground mine water. The water is treated via a reverse osmosis membrane treatment process. The water is split into two streams, namely a clean stream and a brine stream. The brine stream accounts for some 13,4 % of the water (3.0 megalitres (Ml) of 22,4 Ml per day). (16,40 Ml/day from the mine and 6 Ml/day from the power station cooling towers) The brine has historically been utilised for dust suppression on the power station's ash dump, however the volume of brine exceeds the suppression volume requirements. Some of the excess brine has historically been evaporated in three of the boilers. Continued disposal of brine on the ash dump is no longer considered to be a feasible solution, as it appears to result in leachates causing groundwater pollution.

Consequently, Eskom, in discussions with the New Denmark Colliery, proposes to upgrade its reverse osmosis plant, and construct an additional brine concentrator. Eskom will treat the underground mine water and return the concentrated brine to the mine, who will be responsible for disposing of the brine in an acceptable manner.

Furthermore, groundwater in the vicinity of the Tutuka Power Station site has been contaminated by the activities at the site. As such Eskom is proposing to construct a wastewater treatment plant to treat contaminated groundwater. This would involve the strategic placement of boreholes to intercept the contaminated groundwater, the abstraction of groundwater and treatment at the proposed new WWTW. The treated water would then be used on site, as with the clean water stream from the underground mine water treatment process.

The clean water stream obtained from the treatment processes would be used for activities on site, such as dust suppression. This would reduce the power station's consumption of raw water from the river systems.

SECTION 5: WASTE QUANTITIES

Indicate or specify types of waste and list the estimated quantities expected to be managed daily (should you need more columns, you are advised to add more)

Hazardous waste	Non hazardous waste	Total waste handled (tonnes per day)
	Contaminated groundwater	1.3 Ml/day
Brine		5.2 Ml/day

Source of information supplied in the table above Mark with an "X"

Determined from volumes
 Determined with weighbridge/scale
 Estimated

X

Recovery, Reuse, Recycling, treatment and disposal quantities

Indicate the applicable waste types and quantities expected to be disposed of and salvaged annually:

TYPES OF WASTE	MAIN SOURCE (NAME OF COMPANY)	QUANTITIES		ON-SITE RECOVERY REUSE RECYCLING TREATMENT OR DISPOSAL	OFFSITE RECOVERY REUSE RECYCLING TREATMENT OR DISPOSAL	OFFSITE DISPOSAL
		T/month	m ³ /month	method & location	method location and contractor details	
Contaminated groundwater	Eskom Tutuka Power Station		39 000	On site treatment of contaminated groundwater and reuse of treated effluent on site	Eskom	
Brine	New Denmark Colliery		Concentrated brine 53 040	On site concentration of brine and disposal by New Denmark Colliery	New Denmark Colliery	
			Treated water 102 960	On site concentration of brine and reuse of treated water on site	Eskom	

SECTION 6: GENERAL

Prevailing wind direction (e.g. NWW)

November – April
 May - October

North Easterly and Northely
Northerly to Easterly, and Westerly to South Westerly

The size of population to be served by the facility

	Mark with "X"	Comment
0-499	N/A	<i>The WWTW would serve the Tutuka Power Station and the brine concentration plant would serve the power station and the New Denmark Colliery.</i>
500-9,999		
10,000-199,999		
200,000 upwards		

The geological formations underlying the site.¹

Granite		Quartzite	
Shale	X	Dolomite	
Sandstone	X	Dolerite	X

Other _____

SECTION 7: COMPETENCE TO OPERATE SITE

It is imperative that the holder of the waste licence is a fit person in terms of section 59 of the NEMWA (59 of 2008). To assess the holder's competence to operate the site, please disclose the following:

Legal compliance

	YES/NO	DETAILS
Has the applicant ever been found guilty or issued with a non compliance notice in terms of any national environmental management legislation?	No	
Has the applicant's licence in terms of the Waste Act 2008 ever been revoked?	No	
Has the applicant ever been issued with a non compliance notice or letter in terms of any South African Law?	No	

NB: Details required above include any information that the applicant wants the Department to take into consideration in determining whether they are a "fit person" and this includes reasons why the offence happened and measures in place to prevent recurrence

¹ Note that the geological data was taken from the Draft Scoping Report for the Tutuka Waste Disposal Site: Proposed extension of the existing General Waste Disposal Site (and associated infrastructure) at the Tutuka Power Station (November 2009) DEA Ref No.: 12/12/20/1553 compiled by Zitholele Consulting.

Technical competence

What technical skills are required to operate the site?

How will the applicant ensure and maintain technical competency in the operation of the site?

The following personnel and technical skills are required:

- Eskom currently has qualified and trained operators on site operating the same type of plant. However, should additional staff be required, the following would apply:
- Eskom shall ensure that the key positions are advertised in a newspaper and filled by competent and suitably qualified people.
- Eskom shall ensure that all personnel on the site undergo specific waste management training e.g. in the courses highlighted above as well other available waste management courses to ensure continuous professional development CPD.
- Eskom shall ensure all personnel on site are inducted through the operations manual and specific training prior to commencement of work on the site.

Details of applicant's experience and qualification along with that of relevant employees must be summarised as shown in the table below:

NAME	POSITION	DUTIES AND RESPONSIBILITIES	QUALIFICATIONS AND EXPERIENCE
<i>This will be provided with the Scoping Report.</i>			

Financial Provisions

Provide a plan of estimated expenditure for the following:

	ATTACHED/NOT ATTACHED	SECTION OF THE REPORT WHERE IT IS ATTACHED
Environmental Monitoring		<i>This will be provided with the EIA Report.</i>
Provision and replacement of infrastructure		
Restoration and aftercare		

SECTION 8: LANDFILL PARAMETERS

The method of disposal of waste

Land building Land-filling Both

The dimensions of the disposal site in metres

	At commencement
	After rehabilitation

Height/Depth	
Length	
Breadth	

The total volume available for the disposal of waste on the site

Volume Available	Mark with "X"	Source of information (Determined by surveyor/ Estimated)
Up to 99		
100-34 999		
35 000- 3,5 million		
>3,5 million		

The total volume already used for waste disposal

This will be provided with the EIA Report.

- (a) Will the waste body be covered daily
- (b) Is sufficient cover material available
- (c) Will waste be compacted daily

YES	NO
YES	NO
YES	NO

If the answers (a) and/or (b) are No, what measures will be employed to prevent the problems of burning or smouldering of waste and the generation of nuisance?

N/A

The Salvage method

Mark with an "X" the method to be used.

- At source
- Recycling installation
- Formal salvaging
- Contractor
- No salvaging planned

Fatal Flaws for the site

Indicate which of the following apply to the facility for a waste management activity:

More detail regarding the information below will be provided with the EIA Report. An initial indication of fatal flaws is provided below.

Within a 3000 m radius of the end of an airport landing strip

YES	NO
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- Within the 1 in 50 year flood line of any watercourse
- Within an unstable area (fault zone, seismic zone, dolomitic area, sinkholes)
- Within the drainage area or within 5 km of water source
- Within an area with shallow and/or visible water table
- Within an area adjacent to or above an aquifer
- Within an area with shallow bedrock and limited available cover material
- Within 100 m of the source of surface water
- Within 1km from the wetland
- Indicate the distance to the boundary of the nearest residential area
- Indicate the distance to the boundary of the industrial area

YES	NO
YES	NO
YES	NO
YES	NO
YES	NO
YES	NO
YES	NO
YES	NO
metres	

Wettest six months of the year

November - April	
May - October	

For the wettest six month period indicated above, indicate the following for the preceding 30 years

	Total rainfall for 6 months	Total A-pan evaporation for 6 months	Climatic water balance
For the 1 st wettest year			
For the 2 nd wettest year			
For the 3 rd wettest year			
For the 4 th wettest year			
For the 5 th wettest year			
For the 6 th wettest year			
For the 7 th wettest year			
For the 8 th wettest year			
For the 9 th wettest year			
For the 10 th wettest year			

Location and depth of ground water monitoring boreholes

Groundwater monitoring boreholes would only be established after an Environmental Authorisation for the project is received. However, proposed locations for monitoring boreholes will be submitted with the EIA Report.

Codes of boreholes	Borehole locality	Depth (m)	Latitude	Longitude
.....		" " " " " "	" " " " " "

Location and depth of landfill gas monitoring test pit

Landfill gas monitoring test pits would only be established after an Environmental Authorisation for the project is received. However, proposed locations for monitoring pits will be submitted with the EIA Report.

Codes of boreholes	Borehole locality	Latitude	Longitude
.....	" " " " " "	" " " " " "

SECTION 9: DECLARATIONS

The independent Environmental Assessment Practitioner

I, Mr Ashwin Gerard West, declare under oath that I –

- act as the independent environmental assessment practitioner in this application ;
- do not have and will not have any financial interest in the undertaking of the activity, other than remuneration for work performed in terms of the Environmental Impact Assessment Regulations, 2006;
- have and will not have no vested interest in the proposed activity proceeding;
- have no, and will not engage in, conflicting interests in the undertaking of the activity;
- undertake to disclose, to the competent authority, any material information that have or may have the potential to influence the decision of the competent authority or the objectivity of any report, plan or document required in terms of the Environmental Impact Assessment Regulations, 2006;
- will ensure that information containing all relevant facts in respect of the application is distributed or made available to interested and affected parties and the public and that participation by interested and affected parties is facilitated in such a manner that all interested and affected parties will be provided with a reasonable opportunity to participate and to provide comments on documents that are produced to support the application;
- will ensure that the comments of all interested and affected parties are considered and recorded in reports that are submitted to the competent authority in respect of the application, provided that comments that are made by interested and affected parties in respect of a final report that will be submitted to the competent authority may be attached to the report without further amendment to the report;
- will keep a register of all interested and affected parties that participated in a public participation process; and
- will provide the competent authority with access to all information at my disposal regarding the application, whether such information is favourable to the applicant or not.

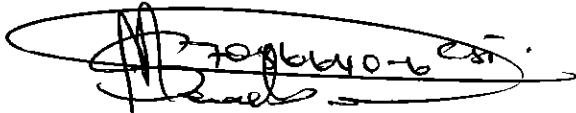
Signature of the Environmental Assessment Practitioner: 

AURECON

Name of company:

15/12/2009

Date:



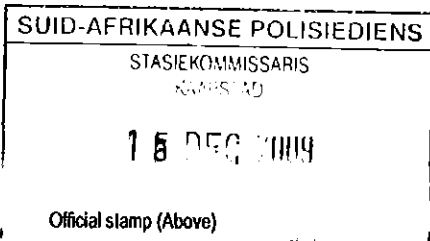
Signature of the Commissioner of Oaths:

2009-12-15.

Date:

CONSTABLE.

Designation:



Official stamp (Above)

The Applicant

I, Ms Deirde Herbst, declare under oath that I -

- Am, or represent, the applicant in this application;
- appointed the environmental assessment practitioner as indicated above to act as the independent environmental assessment practitioner for this application;
- will provide the environmental assessment practitioner and the competent authority with access to all information at my disposal that is relevant to the application;
- will be responsible for the costs incurred in complying with the Environmental Impact Assessment Regulations, 2006, including but not limited to -
- costs incurred in connection with the appointment of the environmental assessment practitioner or any person contracted by the environmental assessment practitioner;
- costs incurred in respect of the undertaking of any process required in terms of the regulations;
- costs in respect of any fee prescribed by the Minister in respect of the regulations;
- costs in respect of specialist reviews, if the competent authority decides to recover costs; and
- the provision of security to ensure compliance with conditions attached to an environmental authorisation, should it be required by the competent authority;
- will ensure that the environmental assessment practitioner is competent to comply with the requirements of these regulations;
- am responsible for complying with the conditions of any environmental authorisation issued by the competent authority;
- hereby indemnify, the government of the Republic, the competent authority and all its officers, agents and employees, from any liability arising out of the content of any report, any procedure or any action for which the applicant or environmental assessment practitioner is responsible in terms of these regulations; and
- will not hold the competent authority responsible for any costs that may be incurred by the applicant in proceeding with an activity prior to an appeal being decided in terms of these regulations.

Signature of Applicant

Esbon Holdings

Name of company:

11.12.2009

Date:

Signature of the Commissioner of Oaths:

Date:

Designation:

Official stamp (Above)

11/12/2009 Plek Megawatt

APPENDIX: A1

Information needed when applying for scheduled activities listed under Category A, but is not limited thereto:

Basic Assessment Report which must include supplementing documentation such as:

- Description of the environment that may be affected by the proposed activity and the manner in which the geographical, physical, biological, social, economic and cultural aspects of the environment may be affected by the proposed activity
- Description of significant environmental impacts, including cumulative impacts, that may occur as a result of the undertaking of the activity
- Conducting public participation as outlined in EIA Regulations
- Waste disposal facility designs
- Closure plan (report)
- Operational plan
- All applicable legislation, policies and/or guidelines
- End-use plan (only apply to site landfill closure)
- Closure/Remedial designs (only apply to the landfill closure)
- Latest external audit report (only apply for permit amendment)
- Application and report documents (four hard copies for all applications)
- A3 size layout plans (four hard copies for all applications)
- Landfill conceptual designs (only apply for construction and decommissioning of landfill sites)
- Geo-hydrological report (only apply to landfill sites, storage facilities and treatment of waste)
- Consideration of alternatives
- Description of mitigation measures and risk assessment
- Any inputs made by specialists to the extent that may be necessary
- Any specific information as may be required by the competent authority

Information needed when applying for scheduled activities listed under Category B, but is not limited thereto:

Scoping and Environmental Impact Assessment Report which should include:

- Description of the environment that may be affected by the proposed activity and the manner in which the geographical, physical, biological, social, economic and cultural aspects of the environment may be affected by the proposed activity
 - Description of significant environmental impacts, including cumulative impacts, that may occur as a result of the undertaking of the activity
 - Conducting public participation as outlined in EIA Regulations
 - Closure plan (report)
 - Operational plan
 - Waste disposal facility designs
 - End-use plan (only apply to site closure)
 - Closure/Remedial designs (only apply to site closure)
 - Latest external audit report (only apply to permit amendment)
 - Application and report documents (four hard copies for all applications)
 - A3 size layout plans (four hard copies for all applications)
 - Landfill conceptual designs
 - Geo-hydrological report (only apply to landfill sites, storage and treatment of waste)
 - Consideration of alternatives
 - Description of mitigation measures and risk assessment
 - Any inputs made by specialists to the extent that may be necessary
 - Any specific information as may be required by the competent authority
- #### **Plan of study for environmental impact assessment which must among others include:**
- Description of the tasks to be undertaken as part of the environmental impact assessment process, including specialist report or specialized processes, and a manner in which such tasks will be undertaken
 - An indication of stages of stages at which the competent authority will be consulted
 - Description of methods for assessing issues and alternatives, including the no-go alternative

Particulars of participation process that will be conducted during the EIA process

NB: Compilation of EIA report must be based on tasks outlined in the Plan of Study for EIA, and the below listed reports must also be attached.

Draft environmental management plan (only apply to EIA reports. No draft EMP should be included in the scoping report)

Copies of any specialist reports and specialized processes (only apply to EIA reports. No copies of specialist studies and specialized processes should be included in the scoping report)

APPENDIX B1

The information requested in Annexures B1 and B2 will be provided in the EIA Report, where available and relevant. This will be provided in due course. Note that some of this information is provided with this application form, as indicated below.

The following MUST be included in the application as supporting documentation and the applicant must indicate specific section(s) where they are appended in the reports.

SECTION / SUB-SECTION / INFORMATION	SECTION IN REPORT WHERE INFORMATION BE FOUND	COMMENTS (if any)
1. Extremely clear Google Earth colour picture of the site (dated not more than a month from the date of the application)	Annexure A	
2. 1:50 000 topography /topo-cadastral map of the area showing	Annexure B	
2.1 the site and 5km radius	Annexure B	
2.2 Existing residential and industrial areas	Annexure B	
2.3 Possible future development (indicate the type of development)		
2.4 Other waste handling sites (existing or closed) in the area	Annexure B	
2.5 Existing and possible future residential areas.	Annexure B	
2.7 Sites which are listed as national monuments or archaeological, paleontological and cultural historical sites or objects worthy of conservation;		
3. Security and access aspects of the site		
4. The site plan drawn to scale showing the site's boundary showing:		
4.1 Activities or development existing on all 4 directions of the site.		
4.2 Waste receipt, storage and handling areas		
4.3 Impermeable surfaces		
4.4 Sealed drainage systems		
4.5 Drainage system for the site including sumps and discharge		

points		
4.6 Road names and access from all major roads in the area		
4.7 Land Owner's consent (letter with signature)	Annexure A	
5. Waste hierarchy implementation plan		
6. Emergency preparedness plan		

APPENDIX B2

The information requested in Annexures B1 and B2 will be provided in the EIA Report, where available and relevant. This will be provided in due course.

The following MUST be included in the application documentation for landfill sites and the applicant must indicate specific section(s) where they are appended in the reports.

REQUIREMENT OF INFORMATION	SECTION IN THE REPORT(S) WHERE IT IS APPENDED	DRAWING NUMBER(S)
Design for site roads		
The 1 in 50 year flood-line of all watercourses		
Laboratory facilities		
Design and location of fuel storage areas		
Design and location of waste quarantine areas		
Design and location of waste inspection areas		
Site's drainage system		
Site's emergency control system and plan		
Liner specifications		
Leak detection system and monitoring		
Leachate management plan		
Calculations of leachate generation		
Leachate collection and treatment		
Gas generation and management		
Air quality monitoring and management		
Co-disposal ratio calculation		
Stability monitoring and management		
Daily and intermediate cover requirements		
Temporary and permanent capping requirements		

ANNEXURE A

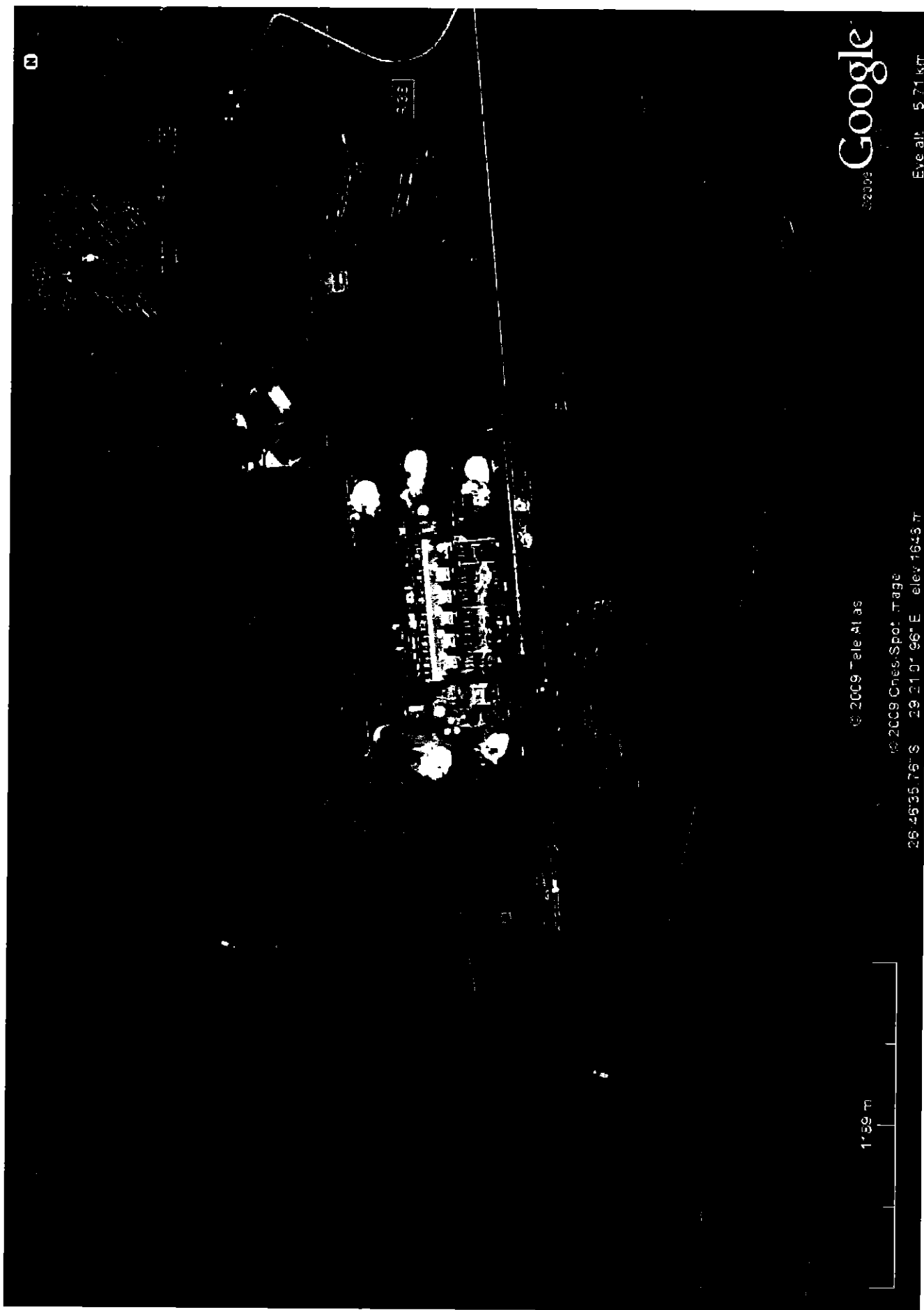


Figure 1: GoogleEarth picture of Tutuka Power Station site (accessed 23 November 2009)

ANNEXURE B

