

**Ref:** 4516 A  
**Enquiries:** V.I. Prinsloo  
**Tel :** 017 8195346  
**Fax:** 0866090238

Anelle Lötter  
Zitholele Consulting  
PO Box 6002  
**HALFWAY HOUSE**  
1685

Fax 0866746121

Dear Anelle Lötter

**KEY COMMENTING AUTHORITY REVIEW OF THE DRAFT SCOPING REPORT FOR A PROPOSED EXTENTION OF ASH DISPOSAL FACILITIES AND ASSOCIATED INFRASTRUCTURE AT CAMDEN POWER STATION (DEA REF: 12/12/20/2300):**

Your letter reference 12670: Let-02, date 15 July 2011 refers.

The Mpumalanga Tourism and Parks Agency have the following concerns, the Terrestrial biodiversity of the farm are Highly significant in parts. See attached map from the Mpumalanga Biodiversity Conservation Plan (C-plan).

Highly significant/Important & Necessary areas are those where biodiversity has been heavily compromised and very few options remain to meet biodiversity targets. Natural vegetation cover in these areas should be maintained or restored. Decisions on land-use changes will require a biodiversity specialist study as part of the EIA (Lötter M.C. & Ferrar A.A., 2006).

As a result the following minimum requirements for an activity that may have a detrimental effect on the environment should be met by the applicant:

In order to promote a uniform standard in Environmental Management Plans the Mpumalanga Tourism and Parks Agency requires a minimum set of standards that will be required in the Scoping Report, EIA or EMPR. Minimum requirements are set for all applications. It is the responsibility of the consultant to give reasons why there should be exemption of any of the requirements in this document (e.g. the application is in an area where there already is severe disturbance of the natural biodiversity and that there will be no impacts on the specific area of environmental concern if the requirements are not met).

If impacts are major, they must be considered in conjunction with existing impacts of other projects and be regarded as a key concern. (EIA Guideline document).

Present and potential future cumulative and synergistic effects should all be taken into account (Aide Memoire).

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**VEGETATION**

1. A map indicating the total area (ha) of disturbance/transformation<sup>1</sup> on the property, including the proposed development.
2. A map indicating vegetation communities and sensitive areas on the property. The map should include the delineation of a 30m buffer zone around any sensitive areas.
3. A map indicating all surrounding land use on adjacent properties.
4. A list of threatened plants species (Red Data Listed) that may potentially occur in the area should be submitted.
5. A floristic survey should be conducted during the growing season with at least two visits undertaken ( $\pm$  November and  $\pm$  February). Visits during other seasons will be determined by the flowering and fruiting times of species that do not occur during the summer season.
6. The MTPA should be supplied with a list of all plant taxa encountered during the surveys. The following should be investigated: threatened species (Red Data Listed<sup>2</sup>), important medicinal species, protected species (Mpumalanga Conservation Act, 1989) as well as endemic taxa.
7. Plants that have been surveyed and which may be of conservation importance should be identified down to species level.
8. The MTPA should be supplied with a detailed list of all threatened species, including their locality information as well as details regarding date, GPS location and spatial resolution.
9. A list of threatened species that could potentially occur but were not found during site visits should be provided separately. In respect of each such species an opinion on the likelihood of that species occurring on the site and the reason for that opinion should be provided.
10. A list of alien plant species occurring on the property should be provided.
11. The invasion extent of category 1 & 2 plants (CARA: Act 43 of 1983, Regulation 15) should be investigated.
12. Any existing or planned eradication programs of alien vegetation should be indicated in the report.
13. Relocation plans of plants of conservation importance should be included and this relocation should be done by specialists that have expertise in the area of environmental concern (EIA Guideline Document).

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<sup>1</sup> Transformation: any land use that results in a loss of biodiversity e.g. buildings, old lands, roads, dams etc. and excluding grazing or burning pressures.

<sup>2</sup> The MTPA is currently reassessing the threatened plant species of Mpumalanga and a preliminary list is available on request.

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ANIMALS

Mammals

1. The Mpumalanga Biobase Report should be consulted for obtaining background on the conservation value of land and areas of sensitivity within the Mpumalanga Province. This report is obtainable from the Mpumalanga Tourism and Parks Agency (MTPA).
2. A list of all potential species should be submitted. The following should be highlighted for threatened (Red Data) species.
  - i. International Red Data status (Latest version of IUCN Red Data List)
  - ii. National Red Data status (Latest version)
  - iii. Endemic status of each species
  - iv. Protection status of each species (Mpumalanga Nature Conservation Act 10 of 1998)
3. A full survey to determine species richness should be carried out. The time of year to conduct surveys should depend on the activity pattern of the species. The survey area should not be restricted to the proposed site of development, but should include all habitat types over the entire property as well as adjacent areas. These surveys should be done by specialists with expertise in the area of environmental concern (EIA Guideline document).
4. A list of all species recorded during the survey should be supplied to the MTPA. Species data (GPS point locality, species name and date) should be forwarded to the MTPA.
5. Where total destruction is going to take place:
  - i. Specified faunal species must be captured and relocated to suitable habitat in the area.
  - ii. The operations must be handled by specialists with expertise in the area of environmental concern (EIA Guideline document).
  - iii. Species data (GPS point locality, species name and date) must be forwarded to the MTPA.
6. Maps indicating
  - i. Areas of sensitivity
  - ii. Areas already disturbed/transformed<sup>3</sup> and size (ha)
  - iii. Proposed development and size
  - iv. Land-use on surrounding properties.
  - v. Location of important species as well as roosting and hibernation sites e.g. caves of ecological importance, in relation to the proposed development.
7. Recommendations on buffer zones will only be made once comprehensive species lists have been received and reviewed in the EMPR/Scoping Reports.
8. A list of threatened species that can potentially occur, but were not found during site visits or surveys should be provided. In respect of each such species an opinion on the likelihood of that species, occurring on the site and the reason for that opinion should be provided.

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<sup>3</sup> Transformation: any land use that results in a loss of biodiversity e.g. buildings, old lands, roads, dams etc. and excluding grazing or burning pressures.

**KEY COMMENTING AUTHORITY REVIEW OF THE DRAFT SCOPING REPORT FOR A PROPOSED EXTENTION OF ASH DISPOSAL FACILITIES AND ASSOCIATED INFRASTRUCTURE AT CAMDEN POWER STATION (DEA REF: 12/12/20/2300):**

9. A list of exotic/introduced vertebrate species occurring on the property should be provided.
10. An ethically accepted plan for the eradication or removal of any exotic/introduced species posing a threat to indigenous species should be included in the report.
11. Any existing and/or planned actions to prevent free movement/roaming of domestic animals such as dogs, cats, goats and pigs should be provided.

**Birds**

1. The Mpumalanga Biobase Report should be consulted for obtaining background on the conservation value of land and areas of sensitivity within the Mpumalanga Province. This report is obtainable from the Mpumalanga Tourism and Parks Agency (MTPA).
2. A list of all potential species should be submitted. The following should be highlighted for threatened (Red Data) species.
  - i. International Red Data status (Latest version of IUCN Red Data List)
  - ii. National Red Data status (Latest version)
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3. A full survey to determine species richness should be carried out. The time of year to conduct surveys should depend on the activity pattern of the species. The survey area should not be restricted to the proposed site of development, but should include all habitat types over the entire property as well as adjacent areas. These surveys should be done by specialists with expertise in the area of environmental concern (EIA Guideline document).
4. A list of all species recorded during the survey should be supplied to the MTPA. Species data (GPS point locality, species name and date) should be forwarded to the MTPA.
5. Indicate in the report whether the proposed site falls within an Important Birding Area (IBA). Literature regarding the Important Bird Areas of Southern Africa (Barnes, 1998) is available from Bird Life South Africa.
6. Maps indicating
  - i. Areas of sensitivity Areas already disturbed/transformed<sup>4</sup> and size (ha)
  - ii. Proposed development and size
  - iii. Land-use on surrounding properties.
  - iv. Location of important species as well as roosting and hibernation sites e.g. caves of ecological importance, in relation to the proposed development.
7. Recommendations on buffer zones will only be made once comprehensive species lists have been received and reviewed in the EMPR/Scoping Reports.

---

<sup>4</sup> Transformation: any land use that results in a loss of biodiversity e.g. buildings, old lands, roads, dams etc. and excluding grazing or burning pressures.

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8. A list of threatened species that can potentially occur, but were not found during site visits or surveys should be provided. In respect of each such species an opinion on the likelihood of that species, occurring on the site and the reason for that opinion should be provided.
9. A list of exotic/introduced vertebrate species occurring on the property should be provided.
10. An ethically accepted plan for the eradication or removal of any exotic/introduced species posing a threat to indigenous species should be included in the report.
11. Any existing and/or planned actions to prevent free movement/roaming of domestic animals such as dogs, cats and exotic/introduced bird species should be provided.

**Invertebrates**

Evaluation and monitoring of invertebrate biodiversity should be included and should contain information on groups including ants, ground living beetles, (Tenebrionidae and Carabidae) termites, leafhoppers, spiders and scorpions.

**WETLANDS**

With reference to the meeting held in this regard on 03/02/2004 the following is important:

1. A wetland specialist should assess the condition of the wetland.
2. A thorough integrity study should be done on wetlands and the following must be indicated:
  - i. Detailed map of delineated wetlands on the property as well as upstream and downstream thereof.
  - ii. Detailed map of all the wetland types, indicating regionally scarce wetland habitat type/s if any.
  - iii. Indicate the size of the wetland.
  - iv. Indicate the different hydrological habitats (percentage) i.e. permanent, seasonal and/or temporary wetland areas.
  - v. Indicate the roughness of the wetland surface (according to Manning's roughness coefficient)
  - vi. Indicate which drivers support the existence of the wetland.
  - vii. Indicate and map the soil forms on the property highlighting hydric soils.
  - viii. Indicate the erodability of the soil (K-value)
  - ix. Indicate problem areas in the wetland (e.g. eroded areas, drains, roads, power lines, alien invasive plants etc.) giving the percentage and level of impact thereof on the wetland.
  - x. Indicate terrain unit/s on which the wetland occur.
  - xi. State the landform setting/s which best describe the wetland
  - xii. Give information regarding the downstream situation (e.g. number of people dependant on the water, size of floodable property downstream)
3. Identify and describe the functions provided by the wetland.
  - i. Habitat functions (biodiversity, grazing, nesting sites, etc.).
  - ii. Water quality functions (water purification etc).
  - iii. Hydrologic functions (flood attenuation, water supply, etc).
4. Catchment information.
  - i. Surface area of the wetland catchment.

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- ii. Percentage of the wetland catchment occupied by the wetland itself.
  - iii. Cumulative loss of wetlands in the catchment.
  - iv. Mean annual runoff generated by the catchment.
  - v. Land cover in the surrounding catchment and the approximate percentage area under each.
  - vi. Sediment input into the wetland.
  - vii. Nutrient/toxicant input into the wetland.
5. Indicate the direct benefits derived by local communities from the wetland (e.g. is the wetland culturally important and why?)
6. Describe the biodiversity of the wetland.
- i. Vegetation surveys.
  - ii. Invertebrate surveys
  - iii. Bird surveys during different seasons of the year (indicate wetland dependant birds and especially the importance of the wetland for migratory, nomadic and breeding birds).
  - iv. Mammal survey (Large and small mammals).
  - v. Fish survey.
  - vi. Amphibian survey (must be done shortly after rain)
  - vii. Identify unique communities (e.g. an unusually high number of marsh owls, although common, will be unique).
7. Indicate the availability of alternative sites with less important habitat for the proposed development

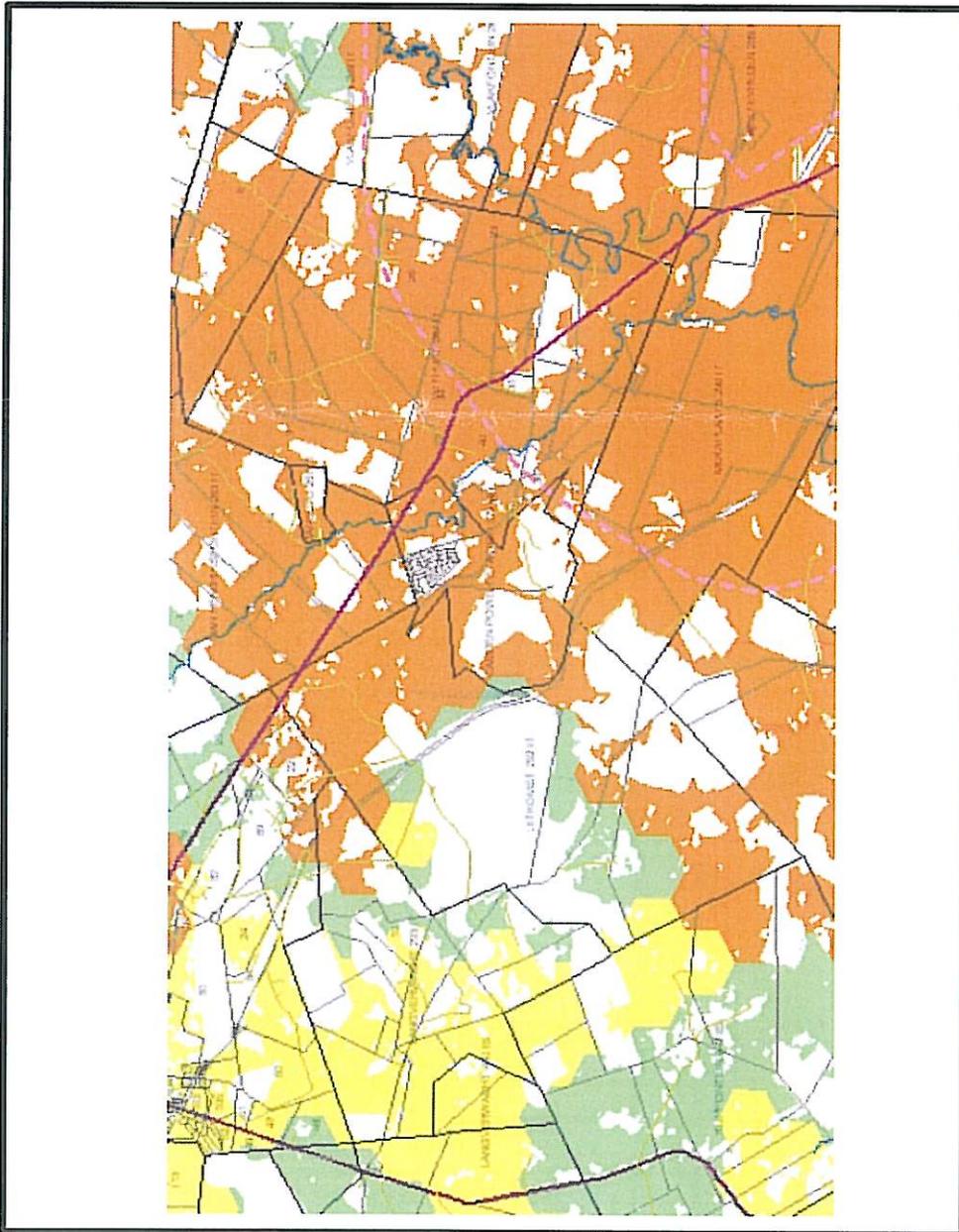
Kind regards



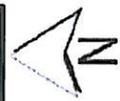
**Dr N Motete**  
**Acting Chief Executive Officer**

Date: 31 Aug 2011

Map Title



- Towns (TOWN)
- Roads (all) (FEAT\_TYPE)
  - ARTERIAL ROUTE
  - MAIN ROAD
  - NATIONAL FREEWAY
  - NATIONAL ROUTE
  - ON-OFF RAMP
  - OTHER ACCESS
  - SECONDARY ROAD
  - STREET
  - UNDER CONSTRUCTION
- Rivers (All)
- Farms (FARMNAME)
- Farm\_portions (SUB\_NO)
- Terrestrial Ecological corridors
- terrestrial biodiversity assessment (ASSESSMEI)
  - 1 - Protected
  - 2 - Irreplaceable
  - 3 - Highly Significant
  - 4 - Important & Necessary
  - 5 - Least Concern
  - 6 - No Natural Habitat Remaining





**Ref:** LUA 13/252  
**Unit:** LUA/SS  
**Enquiries:** F.N. Krige  
**Tel/ Fax:** 013 2540279  
**E-Mail:** frans@mtpa.co.za

Attention: Ms. Nicolene Venter

**Zitholele Consulting**  
P.O.Box 6002  
**Halfway House**  
1685

Fax: 086-676-9950  
E-mail: mail@zitholele.co.za

Dear Ms. Venter

**SUBJECT: MTPA COMMENTS ON THE DRAFT ENVIRONMENTAL IMPACT REPORT FOR A PROPOSED EXTENSION OF ASH DISPOSAL FACILITIES AND ASSOCIATED INFRASTRUCTURE AT CAMDEN POWER STATION, NEAR ERMELO, MPUMALANGA.**

With reference to your correspondence reference: 12670: Let-02 and DEA Ref: 12/12/20/2300 of date 20 March 2013 herewith our comments:

MTPA has no objection to the proposed development or to the sensitivity of the site. The preferred site 1 is supported for the new ash disposal facility and a proper liner with a lifespan longer than 30 years is recommended.

Furthermore we thank you for the professional reporting plans.

Kind Regards

A handwritten signature in black ink, appearing to read "J. Eksteen", is written over a dotted line.

.....  
**MR. J. EKSTEEN**  
**ACTING: SENIOR MANAGER SS**  
**DATE: 12/04/2013**

**Confidentiality Notice:** This internal memo contains information which may be legally privileged. This information is intended for the sole purpose of the addressee named above. Any copying, disclosure or action taken on reliance of the memo information is strictly prohibited.

## Patiswa Mnqokoyi

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**From:** Mandla Ndlovu [mandla.izinyosi@gmail.com]  
**Sent:** 25 April 2013 04:39 PM  
**To:** Jan Dirk Brak  
**Cc:** Warren Kok; Nicolene Venter  
**Subject:** Document for Proposed Extension of Ash Disposal Facilities at Camden Power Station

Hi,

Further comments:

Why you don't employ other measures to reduce ash waste like to use it to make other products/material,i.e Bricks, Charcoal,etc

regards

On Wednesday, April 24, 2013, Jan Dirk Brak <[Janb@zitholele.co.za](mailto:Janb@zitholele.co.za)> wrote:

> Good evening Mandla,

>

>

>

> Thank you for the comment. I will put it into the CRR that will be attached to the final document. I will also ensure that you get a copy of the final CRR.

>

>

>

> Good evening.

>

>

>

> Kind Regards,

>

>

>

> Jan-Dirk Brak [BSc. (Geography)]

>

> Environmental Practitioner

>

> Block B, Thandanani Park, Matuka Close, Halfway Gardens, Midrand, 1685, RSA

>

> T: +27 11 207 2060 D: +27 11 088 8403 F: +27 86 676 9950 C: +27 82 806 7217

>

> E: [janb@zitholele.co.za](mailto:janb@zitholele.co.za) W: [www.zitholele.co.za](http://www.zitholele.co.za)

>

> <thismessage:/mail/u/0/s/?view=att&th=13e3cb238788f8ef&attid=0.1&disp=emb&zw&atsh=1> Please consider the environment before printing this e-mail!

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>

> From: Mandla Ndlovu [mailto:[mandla.izinyosi@gmail.com](mailto:mandla.izinyosi@gmail.com)]

> Sent: 24 April 2013 05:20 PM

> To: Jan Dirk Brak

> Cc: Warren Kok; Nicolene Venter

> Subject: Re: Document for Proposed Extension of Ash Disposal Facilities at Camden Power Station

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>

> Hi,

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> My comments are as follows:

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> I'm not supporting the extension ash disposal facilities at Site 2 & 3 as proposed in your concept map because they are too close to my farm. I'm doing farming, they are people staying on the farm and I'm busy building dwelling apartments and accommodation facilities.

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> Regards

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> MB Ndlovu

>

> Tel: 083 564 5192

>

> Owner of Portion 29 (a Portion of Portion3) of the Farm WITPUNT 267 - Just behind and bordering Camden Power Stationh

>

>

>

> On Tue, Apr 16, 2013 at 1:11 PM, Jan Dirk Brak <[Janb@zitholele.co.za](mailto:Janb@zitholele.co.za)> wrote:

>

> Good day Mandla,

>

>

>

> I would like to remind you that we have a Public Meeting Tomorrow at Indawo Game Reserve to present the Draft Environmental Impact Report to the public.

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> There will be two meetings:

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> · 10:00-12:00

>

> · 18:00-20:00

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> The document is rather big, so I will attach a link to our website where the document is stored as well. If you have any further questions and comments, you are welcome to attend the meeting tomorrow. I will also

have CD's available with copies of the document on it.

>

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>

> <http://www.zitholele.co.za/camden-power-station>

>

>

## Jan Dirk Brak

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**From** Patiswa Mnqokoyi  
**Sent** 04 May 2013 11:20 AM  
**To** Jan Dirk Brak  
**Cc** Warren Kok; Nicolene Venter  
**Subject** FW: Camden Power Station Ash Expansion Facility Minutes of public meetings

Good day,

Please see below.

Kind regards,

**Patiswa Mnqokoyi** (Dept. Public Relations and Marketing)  
**Divisional Administrator**  
Block 7, Thandanani Park, Matukalo, Halfway Gardens, Midrand, 1685, RS  
**T:** +27 11 207 2060; **F:** +27 11 207 2074; **F:** +27 36 676 950; **F:** +27 21 84 8653  
**E:** [patiswam@zitholele.co.za](mailto:patiswam@zitholele.co.za) **W:** [www.zitholele.co.za](http://www.zitholele.co.za)



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**From** Phiwo B Nkosi (<mailto:PhiwoBN@gsibande.gov.za>)  
**Sent** 04 May 2013 11:20 AM  
**To** Patiswa Mnqokoyi  
**Subject** FW: Camden Power Station Ash Expansion Facility Minutes of public meetings

Good day

The GS M hereby confirms the minutes to be an accurate representation of the deliberations of the meeting.

---

**From** Wisdom Mpofu  
**Sent** Monday, 04 May 2013 11:20 AM  
**To** Phiwo B Nkosi  
**Subject** FW: Camden Power Station Ash Expansion Facility Minutes of public meetings

Action Pliz Phiwo

W

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**From** Patiswa Mnqokoyi (<mailto:Patiswam@zitholele.co.za>)  
**Sent** 04 May 2013 11:20 AM  
**To** Florence Rambuda  
**Subject** Camden Power Station Ash Expansion Facility Minutes of public meetings

Good day Dear Stakeholder,

Please find attached the minutes from the two public meetings hosted by Zitholele Consulting on Wednesday 17 April 2013 at Indawo Lodge, Ermelo.

The meetings objective was to present the Draft Environmental Impact Report to the public.

□

The public has the opportunity to review the minutes, and to verify if the comments made were captured correctly.

Please direct your comments to the public participation office or myself at your earliest convenience.

The Zitholele team is currently busy compiling the Final Environmental Impact Report (FEIR). The availability of the FEIR will be announced to the public in due course.

Kind Regards,

<p><b>Jan-Dirk Brak</b> [BSc. (Geography)] <i>Environmental Practitioner</i> Block B, Thandanani Park, Matuka Close, Halfway Gardens, Midrand, 1685, RSA <b>T:</b> +27 11 207 2060 <b>D:</b> +27 11 088 8403 <b>F:</b> +27 86 676 9950 <b>C:</b> +27 82 806 7217 <b>E:</b> <a href="mailto:janb@zitholele.co.za">janb@zitholele.co.za</a> <b>W:</b> <a href="http://www.zitholele.co.za">www.zitholele.co.za</a></p> <p> Please consider the environment before printing this e-mail!</p>	
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<p><b>REGISTRATION AND COMMENT SHEET</b></p> <p><b>Environmental Impact Assessment and Waste Management License Application for a proposed extension of ash disposal facilities at Camden Power Station</b></p> <p>Inserted in the Background Information Document May 2011</p>	<p><b>EIA Public Participation Office</b></p> <p>Anelle Lötter/Florence Rambuda Zitholele Consulting (Pty) Ltd P O Box 6002, Halfway House, 1685 Tel: (011) 207 2076/2075 Fax: 086-676-9950 Email: <a href="mailto:alotter@zitholele.co.za">alotter@zitholele.co.za</a> or <a href="mailto:florence@zitholele.co.za">florence@zitholele.co.za</a></p>
---	---

Please complete by 17 June 2011 and return to the EIA Public Participation Office (as above)

TITLE	MR	FIRST NAME	JAPHYA BORCIANI	
INITIALS	J.B.	SURNAME	MALUNGISA	
ORGANISATION	DEPT OF LABOUR	EMAIL	japhyam@labour.gov.za	
POSTAL ADDRESS	PRIVATE BANGA 7263 WITBANK 1035			
TEL NO	0829071158	POSTAL CODE	1035	
DATE	07/06/2011	FAX NO	0865277146	
Please formally register me as an interested and affected party (I&AP) so that I may receive further information and notifications during the Environmental Impact Assessment process				YES    NO
I would like my notifications by				Letter (mail)
				Email
				Fax
				Telephone
				Paper copies
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 (EIA process regulations) 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)

Any comments you may have at this stage:

Currently NO comment.

Please ask the following of my colleagues/friends/neighbours to register for this project:

THANK YOU FOR YOUR CONTRIBUTION

## Patiswa Mnqokoyi

---

**From:** Warren Kok  
**Sent:** 26 April 2013 07:29 AM  
**To:** Mandla Ndlovu; Jan Dirk Brak  
**Cc:** Nicolene Venter  
**Subject:** RE: Document for Proposed Extension of Ash Disposal Facilities at Camden Power Station

Dear Mr Ndlovu,

Many thanks for your comments, which will be appropriately registered in the Comments Response Report and reported as part of the official record of the project. In response to your enquiry "Why you don't employ other measures to reduce ash waste like to use it to make other products/material,i.e Bricks, Charcoal,etc" I can respond by indicating that Eskom do have initiatives ongoing for the investigation and implementation of projects for reuse of the ash generated at their power stations. Unfortunately the volume of ash is just too high to dispose of all of it in this manner. Currently Eskom manage to re-purpose about 5% of the ash generated at power stations across South Africa. Thus ash disposal / storage facilities will are still required.

I trust this answers your question, but please feel free to contact us again should you have any further enquiries.

Kind Regards,

**Warren Kok** [B.A. (Hons) (Geography and Environmental Management), EAP]  
**Divisional Leader: Environmental Management Services**  
Block B, Thandanani Park, Matuka Close, Halfway Gardens, Midrand, 1685, RSA  
**T:** +27 11 207 2060 **D:** +27 11 207 2073 **F:** +27 86 676 9950 **C:** +27 71 250 5371  
**E:** [warrenk@zitholele.co.za](mailto:warrenk@zitholele.co.za) **W:** [www.zitholele.co.za](http://www.zitholele.co.za)

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**Sent:** 25 April 2013 04:39 PM  
**To:** Jan Dirk Brak  
**Cc:** Warren Kok; Nicolene Venter  
**Subject:** Document for Proposed Extension of Ash Disposal Facilities at Camden Power Station

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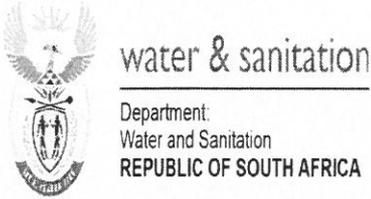
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> Good evening.  
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>  
> Kind Regards,  
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>  
>  
> Jan-Dirk Brak [BSc. (Geography)]  
>  
> Environmental Practitioner  
>  
> Block B, Thandanani Park, Matuka Close, Halfway Gardens, Midrand, 1685, RSA  
>  
> T: +27 11 207 2060 D: +27 11 088 8403 F: +27 86 676 9950 C: +27 82 806 7217  
>  
> E: [janb@zitholele.co.za](mailto:janb@zitholele.co.za) W: [www.zitholele.co.za](http://www.zitholele.co.za)  
>  
> <thismessage:/mail/u/0/s/?view=att&th=13e3cb238788f8ef&attid=0.1&disp=emb&zw&atsh=1> Please  
consider the environment before printing this e-mail!  
>  
> <thismessage:/mail/u/0/s/?view=att&th=13e3cb238788f8ef&attid=0.2&disp=emb&zw&atsh=1>  
>  
> From: Mandla Ndlovu [mailto:[mandla.izinyosi@gmail.com](mailto:mandla.izinyosi@gmail.com)]  
> Sent: 24 April 2013 05:20 PM  
> To: Jan Dirk Brak  
> Cc: Warren Kok; Nicolene Venter  
> Subject: Re: Document for Proposed Extension of Ash Disposal Facilities at Camden Power Station  
>  
>  
>  
> Hi,  
>  
>  
>  
> My comments are as follows:  
>  
>  
>  
> I'm not supporting the extension ash disposal facilities at Site 2 & 3 as proposed in your concept map  
because they are too close to my farm. I'm doing farming, they are people staying on the farm and I'm busy  
building dwelling apartments and accommodation facilities.  
>  
>  
>  
>  
>  
> Regards  
>  
>  
>  
> MB Ndlovu  
>  
> Tel: 083 564 5192

>  
> Owner of Portion 29 (a Portion of Portion3) of the Farm WITPUNT 267 - Just behind and  
> bordering Camden Power Stationh  
>  
>  
>  
> On Tue, Apr 16, 2013 at 1:11 PM, Jan Dirk Brak <[Janb@zitholele.co.za](mailto:Janb@zitholele.co.za)> wrote:  
>  
> Good day Mandla,  
>  
>  
>  
> I would like to remind you that we have a Public Meeting Tomorrow at Indawo Game Reserve to present  
> the Draft Environmental Impact Report to the public.  
>  
>  
>  
> There will be two meetings:  
>  
> . 10:00-12:00  
>  
> . 18:00-20:00  
>  
>  
>  
> The document is rather big, so I will attach a link to our website where the document is stored as well. If  
> you have any further questions and comments, you are welcome to attend the meeting tomorrow. I will also  
> have CD's available with copies of the document on it.  
>  
>  
>  
> <http://www.zitholele.co.za/camden-power-station>  
>  
>  
>



K. Legge/K Mnisi/C Fricker  
Tel: 012 336 8677/8944/6656  
Ref: 16/2/7/C111/B14/Y1/1

## **ACTING CHIEF DIRECTOR: COMPLIANCE MONITORING**

For attention Director: Resource Protection and Waste, and Ms W Moolman

### **NEMWA WASTE LICENCE: ENGINEERING SERVICES COMMENT: CAMDEN ASH DISPOSAL FACILITY**

#### **1. Presentation**

On Thursday 13 February 2014 at 11h30 the project background and detail were presented by Zitholele Consulting under the auspices of Ms W Moolman.

#### **2. Documentation**

The following reports, drawings and correspondence were presented for consideration:  
a) Three drawings Site 1 Ash Dam Layout and Cross Sections 12670-02-001; Site 1 Solution and Storm water Trenches Sections and Details 12670-02-002; Site 1 Silt Trap Plan, Sections and Details 12670-02-003.

b) Geohydrological Impact Assessment: Proposed Ash Dam Extension at Eskom Camden Power Station having reference RVN 631.1/1304 dated June 2012.

c) Conceptual Design Report for the Extension of the Ash Dam at Camden Power Station having reference 12670-Eng-01 dated 12 February 2014.

d) Copy of the Zitholele presentation for the New Wet Ash Disposal Facility for Camden Power Station.

e) Minutes of the meeting held on 13 February 2014 forwarded by Zitholele Consulting.

#### **3. Consideration**

The applicant is proposing a new ash disposal facility as the existing one is nearing end of service life in 2017. The service life of the proposed new ash disposal facility is 17 years with a total airspace volume requirement of 25 million cubic metres. The new footprint area is 121 Ha, which will be lined in three phases.

The site is underlain by shale at 2 to 7m below ground level (bgl) and an unweathered

dolerite sill 7 to 15m bgl. The site is within 500m from a wetland situated north-west of the facility.

The applicant is proposing and applying for a "co-disposal" facility, wet ashing system of ash mixed with brine to form a slurry which is reportedly classified as a Type 1 waste due to high concentration of arsenic, barium, copper, lead and zinc. A class C barrier is however, proposed in accordance with Regulation 636 Norms and Standards. The proposed barrier system for the ash disposal facility from bottom up is as follows: 160 diameter geopipe encased in 19mm stone with 6mm stones wrapped in a separation geotextile subsurface drain; 100mm filter sand cushion; 6 to 8% bentonite blended with silty sand (alternative to clay); 1,5mm DT HDPE geomembrane; an A10 protection geotextile, followed by ash.

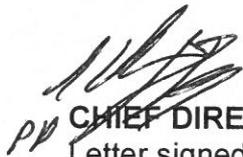
Eight new 350mm diameter steel pipe slurry lines which will be above ground on concrete plinths are proposed, to deliver the ash.

#### 4. Recommendation

It is recommended that the design be refined to address return water management details; compliance with Regulation 636 clause 3(2) and filter capability; and the long term barrier performance is quantified. The current concept is not adequate for acceptance, especially in the absence of waste classification.



KK Mhisi  
Candidate Scientist: Engineering Geology  
Date: 13/10/2014



**CHIEF DIRECTOR: ENGINEERING SERVICES**  
Letter signed by KR Legge  
Chief Engineer: Integrated Environmental Engineering  
Date 2014/10/13

Attachment: List of Acronyms





## Final Comment

### In terms of Section 38(8) of the National Heritage Resources Act (Act 25 of 1999)

Attention: Eskom Holdings SOC Limited  
92 Hans Van Rensburg Street  
Polokwane  
0699

### PROPOSED EXTENSION OF THE ASH DISPOSAL FACILITIES AT CAMDEN POWER STATION.

*Gaigher, S. (December 2011). First Phase Heritage Impact Assessment for the Proposed Extension to the Camden Ash Disposal Facilities*

The above heritage report refers;

Eskom proposes to extend existing ash disposal facilities and associated infrastructure at the Camden Power Station situated approximately 12km from Ermelo. This extension will likely cover 100ha, with an additional 20ha of ash water return dams, channels, roads and fences.

All three proposed alternatives were assessed in the HIA. The submitted report indicates that only Alternative 2 has heritage concerns as a small graveyard was identified in the footprint of this alternative. No other heritage concerns were identified in the submitted report.

However, SAHRA has a number of concerns regarding the content of the submitted HIA. The report only contained two photographs, neither of which are clear. No GPS track paths were provided. In the introduction to the report, Section 27(1) of the NHRA (Act 25 of 1999) is quoted as the relevant piece of legislation for this submission. This is incorrect. Applications of this nature are submitted in terms of Section 38(8) of the NHRA (Act 25 of 1999). As such, the submitted report does not satisfy the Minimum Standards for Archaeological Impact Assessments approved by SAHRA in 2008.

### Final Comment

While the submitted report does not satisfy SAHRA's Minimum Standards for Archaeological Impact Assessments, the proposed development is unlikely to change the character of the proposed site alternatives and, as long as the conditions below are met, SAHRA has no objection to the proposed development. It should be noted, however, that reports completed after September 2012 that do not satisfy SAHRA's Minimum Standards will be rejected.

SAHRA supports Alternative 1 and Alternative 3 of the proposed development based on the information contained in the submitted report. SAHRA does not support Alternative 2 due to the impact development in this area will have on the identified graveyard.

The graveyard identified in the report as CAD001 must remain *in situ* and may not be impacted by the proposed development. A conservation management plan must be drafted to co-ordinate the ongoing



# Camden Ash Disposal Facilities Project

Our Ref: 9/2/222/0002

Enquiries: Jenna Lavin  
Tel: 021 462 4502  
Email: [jlavin@sahra.org.za](mailto:jlavin@sahra.org.za)  
CaseID: 1674

Date: Monday March 18, 2013

Page No: 2



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management and conservation of the graveyard at CAD001.

Should it not be possible to adhere to the above conditions, the applicant must consult with SAHRA regarding the reasons for non-compliance. In this instance, on SAHRA's advice, other mitigation strategies may have to be adopted which will require following a process for archaeological investigation in terms of Section 35 and for exhumation in terms of Section 36 of the NHRA (Act 25 of 1999).

Should any evidence of archaeological sites or remains (e.g., remnants of stone-made structures, indigenous ceramics, bones, stone artefacts, ostrich eggshell fragments, charcoal/ash concentrations), unmarked human burials, fossils or other categories of heritage resources are found during the proposed activities, SAHRA APM Unit (Jenna Lavin/Colette Scheermeyer 021 462 4502) must be alerted immediately, and a professional archaeologist or palaeontologist, depending on the nature of the finds, must be contacted as soon as possible to inspect the findings. If the newly discovered heritage resources prove to be of archaeological or palaeontological significance a Phase 2 rescue operation might be necessary.

Should you have any further queries, please contact the designated official using the case number quoted above in the case header.

Yours faithfully



---

Jenna Lavin  
Heritage Officer  
South African Heritage Resources Agency



---

Colette Scheermeyer  
SAHRA Head Archaeologist  
South African Heritage Resources Agency

---

**ADMIN:**  
(DEA, Ref: 12/12/20/2300)

Terms & Conditions:



The South African Heritage Resources Agency

Street Address: 111 Harrington Street, Cape Town 8000 \* Postal Address: PO Box 4637, Cape Town 8000  
\* Tel: +27 21 462 4502 \* Fax: +27 21 462 4509 \* Web: <http://www.sahra.org.za>

# Camden Ash Disposal Facilities Project

Our Ref: 9/2/222/0002

Enquiries: Jenna Lavin  
Tel: 021 462 4502  
Email: [jlavin@sahra.org.za](mailto:jlavin@sahra.org.za)  
CaseID: 1674

Date: Monday March 18, 2013

Page No: 3



- 
1. This approval does not exonerate the applicant from obtaining local authority approval or any other necessary approval for proposed work.
  2. If any heritage resources, including graves or human remains, are encountered they must be reported to SAHRA immediately.
  3. SAHRA reserves the right to request additional information as required.



The South African Heritage Resources Agency

Street Address: 111 Harrington Street, Cape Town 8000 \* Postal Address: PO Box 4637, Cape Town 8000  
\* Tel: +27 21 462 4502 \* Fax: +27 21 462 4509 \* Web: <http://www.sahra.org.za>

## Leoni Lubbe

---

**Subject:** FW: RE: Revised DEIR Comment Period Commencing - Proposed Expansion of the ADF at Camden Power Station

---

From: Ackerman Pieter [<mailto:AckermanP@dwa.gov.za>]  
Sent: 30 September 2014 07:51 AM  
To: Leoni Lubbe  
Subject: RE:

Hi  
One of the alternatives is to address the exclusion of watercourses.  
Regards

Pieter Ackerman (PrLArch)  
Chief Landscape Architect  
Department of Water and Sanitation (DWS), South Africa  
Sub Directorate Instream Water Use  
Tel: 012 336 8217  
Cell: 082 807 3512  
Fax: 012 336 6608

---

From: Leoni Lubbe [<mailto:Leonil@zitholele.co.za>]  
Sent: 29 September 2014 03:55 PM  
To: Ackerman Pieter  
Subject:

**INTEGRATED ENVIRONMENTAL AUTHORISATION (ENVIRONMENTAL IMPACT ASSESSMENT AND WASTE MANAGEMENT LICENSE APPLICATION): PROPOSED EXPANSION OF THE ASH DISPOSAL FACILITIES AT CAMDEN POWER STATION, MPUMALANGA**

- **Revised Draft Environmental Impact Report (DEIR) available for review and comment**
- **DEA Ref. No.: 12/12/20/2300 and NEAS Ref. No.: DEA/DIA/0000399/2011**

Dear Stakeholder

Kindly find attached letter which serves to inform you that the Revised Draft Environmental Impact Report (DEIR) is available for public review and comment from **Monday, 29 September 2014** to **Friday, 07 November 2014**.

The Revised DEIR can be downloaded from Zitholele's website: <http://www.zitholele.co.za/camden-power-station>.

Kind regards

**Documents attached:**

- Revised DEIR Notification Letter
- Revised DEIR Comment Form

---

**GEÏNTEGREERDE OMGEWINGSMAGTIGING (OMGEWINGSIMPAKEVALUERING EN AANSOEK OM AFVALBESTUURLISENSIE): VOORGESTELDE UITBREIDING VAN DIE ASVERWYDERINGSINSTALLASIE BY DIE CAMDEN KRAGSTASIE, MPUMALANGAPROVINSIE**

- **Hersiende Konsep Omgewingsimpakevalueringsverslag (KOIV) beskikbaar vir insae en kommentaar**
- **DO Verw. No: 12/12/20/2300 en NEAS Verw. No.: DEA/EIA/0000399/2011**

Geagte Belanghebbende

Vind asseblief aangehegde brief wat dien om U in te lig dat die Hersiende Konsep Omgewingsimpakevalueringsverslag (KOIV) beskikbaar is vir openbare insae en kommentaar vanaf **Maandag, 29 September 2014** tot **Vrydag, 07 November 2014**.

Die Hersiende KOIV kan ook van Zitholele se webwerf (<http://www.zitholele.co.za/camden-power-station>) afgelaai word.

Vriendelike groete

**Die volgende dokumente sal binnekort in afrikaans beskikbaar wees en uitgestuur word aan u:**

- Hersiende KOIV Kennisgewingsbrief
- Hersiende KOIV Kommentaarvorm

**Nicolene Venter** [Cert. Public Relations]

**Senior Public Participation Practitioner**

Building 1, Maxwell Office Park, Magwa Crescent West, cnr Allandale Road & Maxwell Drive, Waterfall City, Midrand, RSA

**T:** +27 11 207 2060 **D:** +27 11 207 2077 **F:** +27 86 676 9950

**C:** +27 83 377 9112

**E:** [nicolenev@zitholele.co.za](mailto:nicolenev@zitholele.co.za) **W:** [www.zitholele.co.za](http://www.zitholele.co.za)

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INCLUDE LETTER ANNOUNCING FEIR TO COMMENTING AUTHORITIES



## environmental affairs

Department:  
Environmental Affairs  
**REPUBLIC OF SOUTH AFRICA**

Private Bag X 447 · PRETORIA · 0001 · Fedsure Building · 315 Pretorius Street · PRETORIA  
Tel (+ 27 12) 310 3911 · Fax (+ 2712) 322 2682

**DEA Reference:** 12/12/20/2300

**Enquiries:** Vincenia Phukubye

**Tel:** 012 395 1780 **Fax:** 012 320 7539 **E-mail:** VPhukubye@environment.gov.za

Mr Warren Kok  
Zitholele Consulting  
PO Box 6002  
**HALFWAY HOUSE**  
1685

**Fax:** 086 674 6121

**Tel:** 011 207 2060

**PER FACSIMILE / MAIL**

Dear Mr Kok

**ACKNOWLEDGEMENT OF RECEIPT OF DRAFT ENVIRONMENTAL IMPACT ASSESSMENT REPORT FOR THE PROPOSED EXTENSION OF ASH DISPOSAL FACILITIES AND ASSOCIATED INFRASTRUCTURE AT CAMDEN POWER STATION, MPUMALANGA PROVINCE**

The Department confirms having received the draft Environmental Impact Assessment Report dated 20 March 2013 for the above-mentioned project on 22 March 2013.

Please note that the Department will start reviewing once the final Environmental Impact Assessment Report is received.

You are hereby reminded that the activity may not commence prior to an environmental authorisation being granted by the Department.

Yours sincerely

**Mr Mark Gordon**  
**Chief Director: Integrated Environmental Authorisations**  
**Department of Environmental Affairs**  
**Letter signed by: Mr Herman Alberts**  
**Designation: Environmental Officer: Integrated Environmental Authorisations**  
**Date: 08/04/2013**



## environmental affairs

Department:  
Environmental Affairs  
**REPUBLIC OF SOUTH AFRICA**

Private Bag X 447 · PRETORIA · 0001 · Environmental House · 473 Steve Biko Road · PRETORIA  
Tel (+ 27 12) 399 9972

**DEA Reference:** 12/12/20/2300

**Enquiries:** Lunga Dlova

**Tel:** 012 399 8913 **E-mail:** LDlova@environment.gov.za

Ms Sharon Meyer-Douglas  
Zitholele Consulting (Pty) Ltd  
PO Box 6002  
**HALFWAY HOUSE**  
1685

**Fax:** 086 674 6121  
**Tel:** 011 207 2060  
**Email:** mail@zitholele.co.za

### **PER FACSIMILE / MAIL**

Dear Ms Meyer-Douglas

### **ACKNOWLEDGEMENT OF RECEIPT OF THE REVISED DRAFT BASIC ASSESSMENT REPORT FOR THE PROPOSED EXTENSION OF ASH DISPOSAL FACILITIES AND ASSOCIATED INFRASTRUCTURE AT CAMDEN POWER STATION NEAR ERMELO, MPUMALANGA PROVINCE**

The Department confirms having received the revised draft Basic Assessment Report date 26 September 2014 for the above-mentioned project on 26 September 2014.

Please note that the Department will start reviewing once the final Basic Assessment Report is received.

You are hereby reminded that the activity may not commence prior to an environmental authorisation being granted by the Department.

Yours sincerely

**Mr Ishaam Abader**  
**Deputy Director – General: LACE**  
**Department of Environmental Affairs**  
**Letter signed by: Mr Herman Alberts**  
**Designation: Environmental Officer: Integrated Environmental Authorisations**  
**Date: 09/10/2014**

**Zitholele Consulting**

Reg. No. 2000/000392/07

PO Box 6002 Halfway House 1685, South Africa  
Building 1, Maxwell Office Park, Magwa Crescent West  
c/o Allandale Road & Maxwell Drive, Waterfall City, Midrand  
Tel + (27) 11 207 2060  
Fax + (27) 86 674 6121  
E-mail : mail@zitholele.co.za



Our Ref : 12670-Let-004

10 October 2014

Camden Power Station

Attention :

Department of Water and Sanitation  
Department of Environmental Affairs

To Whom It May Concern

Waste Water Disposal at Camden Power Station

Camden Power Station is currently undertaking an Environmental Impact Assessment (EIA), Waste Management License Application (WMLA) and Water Use License Application (WULA) for the proposed new Ash Disposal Facility (ADF), which is required to accommodate the remaining life of the Power Station up to 2028 with a five year contingency period, therefore up to 2033.

The objective of this letter is to provide feedback on the issue of co-disposal as discussed during the previous engagement with the Department of Water and Sanitation (DWS) engineering division in February 2014.

**1 BACKGROUND**

The following wastes (as depicted in Figure 1) are produced as part of the ash disposal processes at Camden Power Station:

- Fly ash and coarse ash, from the coal burning operations, which is disposed of at the ADF, through wet ashing processes; and
- Four streams of liquid effluent, being:
  - Cooling Water Blow-down;
  - Effluent from the demineralisation (Demin) Plant ;
  - Return water from the current ADF; and recently
  - Effluent from the Reverse Osmosis (RO) Plant.

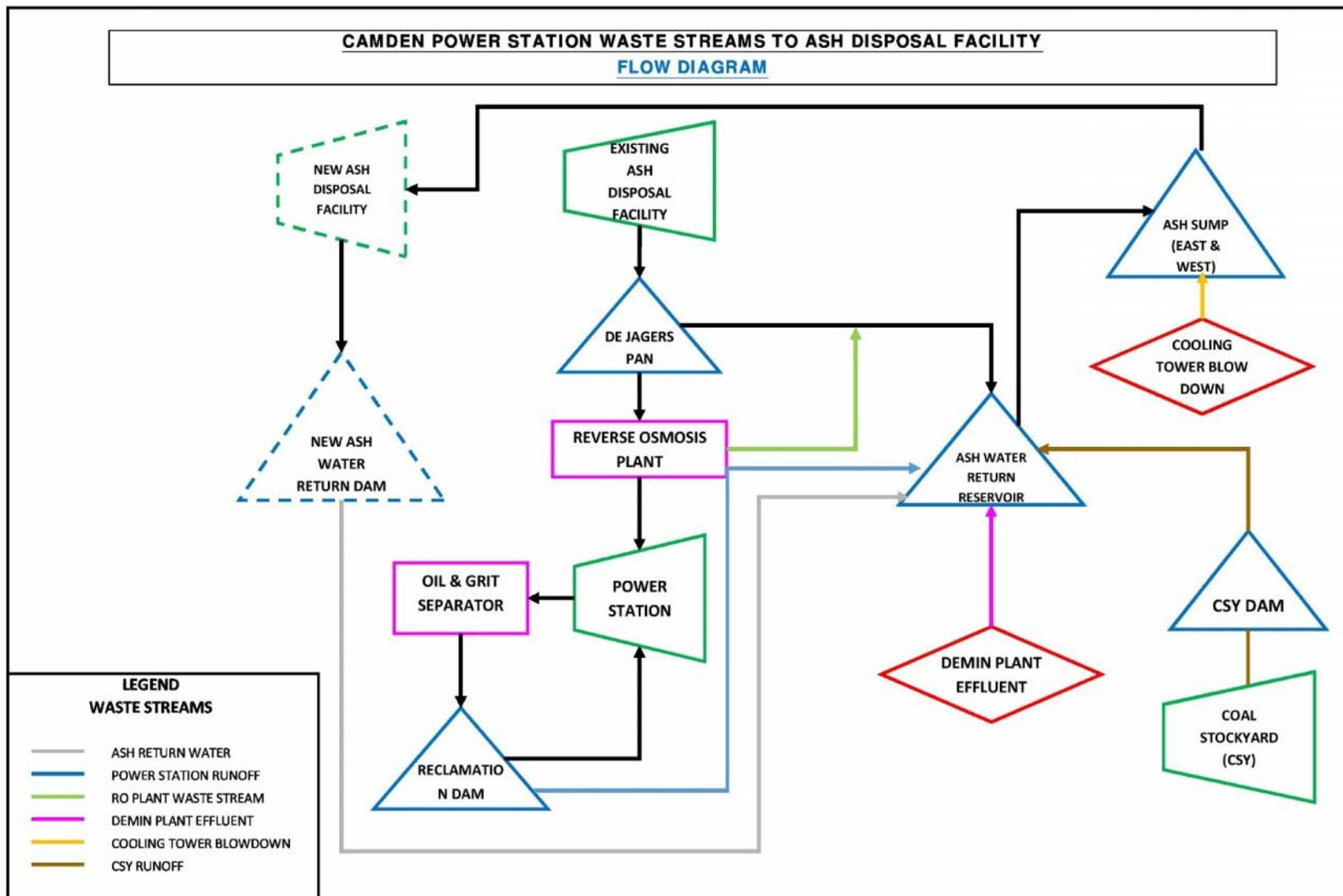


Figure 1: Schematic of waste streams at Camden Power Station. The Figure shows not only the current situation, but also the proposed scenario with the new ADF..

Ash is generated at the Power Station, and is transported as wet slurry via pipelines to the ash disposal facility for disposal. The wet ash, in slurry form, is pumped to the ash disposal facility, where ash water is evaporated, stored or overflows via penstocks. The ash water that overflows drains to the De Jagers Pan. The de Jagers Pan also receives clean water from the catchment. The water from De Jagers Pan is transported to the Ash Water Return Reservoir (AWRR) on site.

Some of the ash water at De Jagers Pan is abstracted and treated at the RO plant, producing clean water and effluent waste stream (concentrated ash water). The clean water from the RO plant is taken to the power station where it is re-used in the cooling water processes. The effluent waste stream (concentrated ash water) from the RO plant is also pumped back to the station ash water high level reservoir (Ash Water Return Reservoir, AWRR) on site. This effluent waste stream and return water from De Jagers Pan is used for ash transportation from boilers and dust hoppers. The effluent from the RO plant therefore forms an integral part of the closed system of ash water used for transportation of ash slurry to the ash disposal facility.

It should be noted that the effluent is originally generated as ash return water from the ADF. Therefore, the effluent sent back to the ADF as an ash carrier medium originates from the same closed system as the ash return water coming off the ADF.

## **2 WASTE CLASSIFICATION**

Waste classification studies for disposal with ash were undertaken on the waste streams, which classified as Type 3 according to the DEA 2013 “National Norms and Standards for the Assessment of Waste for Landfill Disposal” (GN 635). The Type 3 wastes are required to be disposed of on a Class C barrier system.

## **3 UNDERSTANDING OF CO-DISPOSAL**

Co-disposal refers to the mixing of liquid and dry wastes or to the mixing of general and hazardous wastes (DWAF, 1998). The waste (effluent) stream produced from the RO plant is in liquid form and is discharged back into the original ash water return lines to the station ash water high level reservoir on site, still in liquid form. This liquid form of this waste stream is also used for ash removal from boilers and dust hoppers and subsequently forms part of the ash water that assists with the transportation of ash slurry to the ash disposal facility.

It should be noted that the effluent is originally generated as ash return water from the ADF. Therefore, the effluent sent back to the ADF as an ash carrier medium originates from the same closed system as the ash return water coming off the ADF.

#### 4 CONSULTATION WITH DWS

A meeting was held with Department of Water and Sanitation (DWS) Engineering Department on 13 February 2014. During this meeting the issue of co-disposal was discussed. Mr Kelvin Legge indicated that no-co disposal should be undertaken because “the brine would destroy the liner”.

Subsequent to the meeting in February 2014 the following transpired:

1. All the waste streams have been classified as Type 3;
2. The effluent from the RO plant was analysed and does not constitute a “brine” as per GN 636 (Norms and Standards for Disposal of Waste to Landfill); and
3. DWS was concerned that the leachate from the ADF will interact with the components of the liner that contained Sodium (Bentonite) and compromise the permeability of the liner. It was later decided to replace the proposed Bentonite Enriched Soils with in-situ material if the permeability was accepted by DWS. If the permeability did not meet acceptable standards, clay will be important for this component of the liner. By doing so, there will be no risk of cation exchange between the leachate and the liner components.

#### 5 CONCLUSION

Taking cognisance of the above, Camden Power Station would like to motivate that the current waste and wastewater management system, in which the waste water from the RO plant is used in ash slurry transportation, be continued for the new ADF project, and in our interpretation does not constitute co-disposal as per GNR 636.

Yours faithfully,



Sharon Meyer-Douglas  
**ZITHOLELE CONSULTING (PTY) LTD**

## Leoni Lubbe

---

**From:** MTPA [franskriige@telkomsa.net]  
**Sent:** 03 November 2014 09:54 AM  
**To:** Leoni Lubbe  
**Subject:** Re: Revised DEIR Comment Period Ending Soon - Proposed Expansion of the ADF at Camden Power Station / Hersiende KOIV Kommentaar Periode Eindig Binnekort – Voorgestelde uitbreiding van die AVI by Camden Kragstasie

Hi Leoni, if you follow the correct procedure by sending the hard copies of your projects to our Head office for registration you might receive a response.

Kind Regards

Francois Krige  
LUA Scientist  
Mpumalanga Tourism and Parks Agency

Tel: (+27) 13 254 0279

Mobile: (+27) 84 2322902

Fax: (+27) 13 254 0279

E-mail: [frans@mtpa.co.za](mailto:frans@mtpa.co.za)  
[franskriige@telkomsa.net](mailto:franskriige@telkomsa.net)

Postal: P.O.Box 98, Dullstroom, 1110

Website: [www.mpumalanga.com](http://www.mpumalanga.com) Please consider the environment before printing this e-mail

----- Original Message -----

**From:** [Leoni Lubbe](#)

**To:** 'Frans Krige'

**Sent:** Friday, October 31, 2014 2:08 PM

**Subject:** Revised DEIR Comment Period Ending Soon - Proposed Expansion of the ADF at Camden Power Station / Hersiende KOIV Kommentaar Periode Eindig Binnekort – Voorgestelde uitbreiding van die AVI by Camden Kragstasie

**DEA Ref. No.: 12/12/20/2300 and NEAS Ref. No.: DEA/DIA/0000399/2011**

**INTEGRATED ENVIRONMENTAL AUTHORISATION AND WASTE MANAGEMENT LICENSE APPLICATION: PROPOSED EXPANSION OF THE ASH DISPOSAL FACILITIES AT CAMDEN POWER STATION, MPUMALANGA**

**· Revised Draft Environmental Impact Report (DEIR) Comment Period Ending Soon**

Dear Stakeholder

This communication serves to remind you that the review period for the Revised Draft Environmental Impact Report (DEIR) for the above-mentioned proposed project ends **Friday, 07 November 2014** (close of business day).

The report (Incl. all Appendices) is still available on the Zitholele's website: <http://www.zitholele.co.za>.

Important note: If you have comments that you would like to make but have not yet submitted, please do so before the close of business, **Friday, 07 November 2014**.

We would like to thank those who have submitted comments on the report.

Kind Regards

-----

**GEÏNTEGREERDE OMGEWINGSMAGTIGINGSPROSES (OIE EN AANSOEK OM AFVALBESTUURLISENSIE) VIR DIE VOORGESTELDE UITBREIDING VAN DIE ASVERWYDERINGSINSTALLASIE EN GEPAARDGAANDE INFRASTRUKTUUR BY DIE CAMDEN KRAGSTASIE NABY ERMELO, MPUMALANGAPROVINSIE**

**· Hersiende Konsep Omgewingsimpakevalueringsverslag (KOIV) Kommentaar Periode Eindig Binnekort**

Geagte Belanghebbende

Hierdie kommunikasie dien om U in te lig dat die Hersiende Konsep Omgewingsimpakevalueringsverslag (KOIV) periode vir openbare besigtiging en kommentaar eindig **Vrydag, 07 November 2014** (sluiting van besigheidsdag).

Die verslag en al die aanhangsels is steeds beskikbaar of the Zitholele webwerf: <http://www.zitholele.co.za>.

Belangrike kennisgewing: Indien U enige kommentaar het om te lewer oor die verslag en dit nog nie kon indien nie, doen asseblief so voor die sluiting van die besigheidsdag **Vrydag, 07 November 2014**.

Ons wil graag ons waardering uitspreek teenoor die belanghebbendes wat kommentaar oor die verslag ingedien het.

Vriendelike groete

**Nicolene Venter** [Cert. Public Relations]

**Senior Public Participation Practitioner**

Building 1, Maxwell Office Park, Magwa Crescent West, cnr Allandale Road & Maxwell Drive, Waterfall City, Midrand, RSA

**T:** +27 11 207 2060 **D:** +27 11 207 2077 **F:** +27 86 676 9950 **C:** +27 83 377 9112

**E:** [nicolenev@zitholele.co.za](mailto:nicolenev@zitholele.co.za) **W:** [www.zitholele.co.za](http://www.zitholele.co.za)

*Please consider the environment before printing this e-mail!*

## Tricia Njapha

---

**From:** Tricia Njapha  
**Sent:** 06 November 2014 01:30 PM  
**To:** 'PatriciaMJ@daff.gov.za'  
**Cc:** Tania Oosthuizen; Nicolene Venter; Leoni Lubbe  
**Subject:** 12670: Camden Power Station Ash Disposal Facility Expansion Project

**Importance:** High

Dear Ms Nomvuzo Mjadu,

### **INTEGRATED ENVIRONMENTAL AUTHORISATION AND WASTE MANAGEMENT LICENSE APPLICATION: PROPOSED EXPANSION OF THE ASH DISPOSAL FACILITIES AT CAMDEN POWER STATION, MPUMALANGA**

#### **· Revised Draft Environmental Impact Report (DEIR) Comment Period Ending Friday 07 November 2014**

My phone call today serves as a gentle reminder of the review period on the Revised Draft Environmental Impact Report (DEIR) for the above-mentioned proposed project which ends **Friday, 07 November 2014** (close of business day).

Kindly refer to previous communication reminders sent to authorities.

The report (Incl. all Appendices) is still available for your comment on the Zitholele's website:  
<http://www.zitholele.co.za>.

**Important note:** If you have comments that you would like to make but have not yet submitted, please do so before the close of business, **Friday, 07 November 2014**.

Thanking you in advance.

Kind regards,

**Tricia Njapha**

*Public Participation Practitioner*

Building 1, Maxwell Office Park, Magwa Crescent West, cnr Allandale Road & Maxwell Drive, Waterfall City, Midrand, RSA

**T:** +27 11 207 2060 **D:** +27 11 088 8454 **F:** +27 86 206 7720/+27 86 676

9950 **C:** +27 83 775 3197 **E:** [trician@zitholele.co.za](mailto:trician@zitholele.co.za) **W:** [www.zitholele.co.za](http://www.zitholele.co.za)



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## Tricia Njapha

---

**From:** Tricia Njapha  
**Sent:** 06 November 2014 03:29 PM  
**To:** 'RamabulanaN'  
**Cc:** 'PatriciaMJ@daff.gov.za'; Nicolene Venter; Tania Oosthuizen; Leoni Lubbe  
**Subject:** RE: PROPOSED EXTENSION OF ASH DISPOSAL FACILITIES AT CAMDEN POWER STATION  
**Attachments:** 12670: Farms

**Importance:** High

Tracking:	Recipient	Delivery	Read
	'RamabulanaN'		
	'PatriciaMJ@daff.gov.za'		
	Nicolene Venter	Delivered: 06/11/2014 03:29 PM	
	Tania Oosthuizen	Delivered: 06/11/2014 03:29 PM	Read: 06/11/2014 03:33 PM
	Leoni Lubbe	Delivered: 06/11/2014 03:29 PM	

Good day Mr Ramabulana,

Apologies for the delay, but please find attached a map and a table (included in the email) of the project area proposed sites received from the Project Manager on the Camden EIA project.

I hope you will find this helpful with your comments.

Do keep well.

Kind regards,

**Tricia Njapha**

**Public Participation Practitioner**

Building 1, Maxwell Office Park, Magwa Crescent West, cnr Allandale Road & Maxwell Drive, Waterfall City, Midrand, RSA

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---

From: RamabulanaN [<mailto:RamabulanaN@daff.gov.za>]

Sent: 06 November 2014 11:04 AM

To: Tricia Njapha

Subject: PROPOSED EXTENSION OF ASH DISPOSAL FACILITIES AT CAMDEN POWER STATION

Our telephone conversation refers

I would like to have farm names for proposed alternative sites 1, 2 and 3 as it will be easy on my side to make comment or inputs.

Kindly regards

## Ramabulana Ndwamato

Assistant Director: Water Management  
Directorate: Water Use and Irrigation Development



### agriculture, forestry & fisheries

Department:  
Agriculture, Forestry and Fisheries  
REPUBLIC OF SOUTH AFRICA

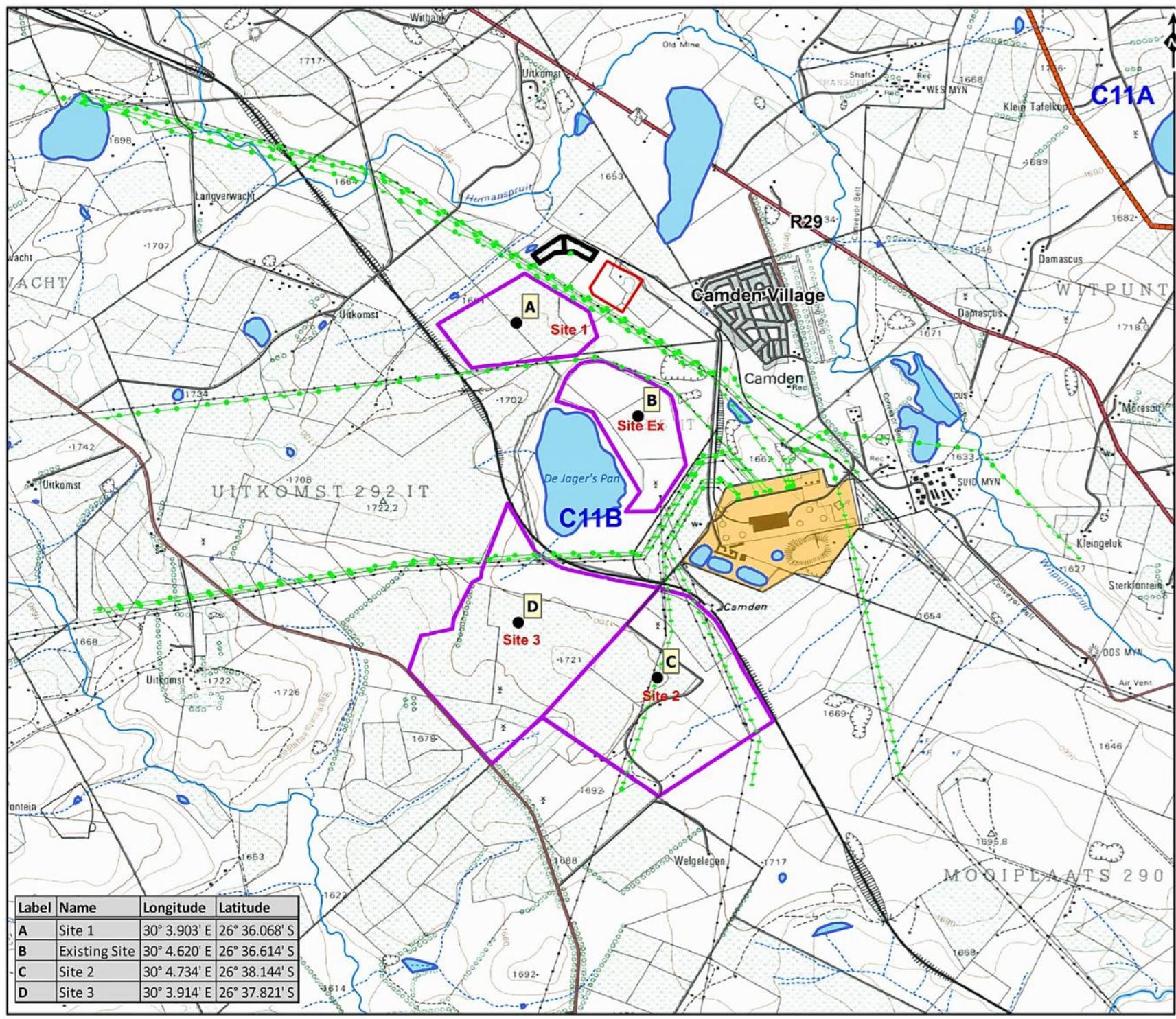
Department of Agriculture, Forestry and Fisheries

Tel : 012 846 8578  
Cell : 073 376 2365  
Fax : 012 846 8576  
Web : [www.daff.gov.za](http://www.daff.gov.za)  
E-mail : [RamabulanaN@daff.gov.za](mailto:RamabulanaN@daff.gov.za)

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Label	Name	Longitude	Latitude
A	Site 1	30° 3.903' E	26° 36.068' S
B	Existing Site	30° 4.620' E	26° 36.614' S
C	Site 2	30° 4.734' E	26° 38.144' S
D	Site 3	30° 3.914' E	26° 37.821' S



**LEGEND**

- Sites Position
- Towns
- National Freeway
- Main road
- Secondary road
- Streets and other access
- Non Perennial Rivers
- Perennial Rivers
- Powerlines
- Waterbodies
- Alternatives
- Coal Stock Yard
- Dams
- Camden Power Station
- Quaternary Catchments

**RESOURCES/NOTES**

**REFERENCE**  
Coordinate System: GCS WGS 1984

**PROJECT** CAMDEN ASH DISPOSAL FACILITY EXPANSION PROJECT

**TITLE**  
  
**LOCALITY MAP**

PROJECT No. 12670	REV 2
SCALE 1:40 000	A3
GIS	VR 30/09/2014
CHECK	SL 30/09/2014
REVIEW	TO 30/09/2014



## Tricia Njapha

---

**From:** Tricia Njapha  
**Sent:** 06 November 2014 01:12 PM  
**To:** 'MatsebaE@dwa.gov.za'  
**Cc:** 'zenas@dwa.gov.za'; Nicolene Venter; Leoni Lubbe  
**Subject:** 12670: Camden Power Station Ash Disposal Facility Expansion Project

**Importance:** High

<b>Tracking:</b>	<b>Recipient</b>	<b>Delivery</b>
	'MatsebaE@dwa.gov.za'	
	'zenas@dwa.gov.za'	
	Nicolene Venter	Delivered: 06/11/2014 01:12 PM
	Leoni Lubbe	Delivered: 06/11/2014 01:12 PM

Dear Mr Matseba,

### **INTEGRATED ENVIRONMENTAL AUTHORISATION AND WASTE MANAGEMENT LICENSE APPLICATION: PROPOSED EXPANSION OF THE ASH DISPOSAL FACILITIES AT CAMDEN POWER STATION, MPUMALANGA**

#### **Revised Draft Environmental Impact Report (DEIR) Comment Period Ending Friday 07 November 2014**

I called your office this morning to connect with you. I managed to speak to Ms Siviwo Zena and left a message to gently remind you of the review period on the Revised Draft Environmental Impact Report (DEIR) for the above-mentioned proposed project which ends **Friday, 07 November 2014** (close of business day).

Kindly refer to previous communication reminders sent to authorities.

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Thanking you in advance.

Kind regards,

**Tricia Njapha**

**Public Participation Practitioner**

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## Tricia Njapha

---

**From:** Tricia Njapha  
**Sent:** 06 November 2014 01:33 PM  
**To:** 'd.zoekop@lando.co.za'  
**Cc:** Tania Oosthuizen; Nicolene Venter; Leoni Lubbe  
**Subject:** 12670: Camden Power Station Ash Disposal Facility Expansion Project

**Importance:** High

Dear Dr Koos Pretorius,

### **INTEGRATED ENVIRONMENTAL AUTHORISATION AND WASTE MANAGEMENT LICENSE APPLICATION: PROPOSED EXPANSION OF THE ASH DISPOSAL FACILITIES AT CAMDEN POWER STATION, MPUMALANGA**

#### **· Revised Draft Environmental Impact Report (DEIR) Comment Period Ending Friday 07 November 2014**

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Kind regards,

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## Tricia Njapha

---

**From:** Tricia Njapha  
**Sent:** 06 November 2014 01:34 PM  
**To:** 'ztshongwe@msukaligwa.gov.za'  
**Cc:** Tania Oosthuizen; Nicolene Venter; Leoni Lubbe  
**Subject:** 12670: Camden Power Station Ash Disposal Facility Expansion Project

**Importance:** High

Dear Mr ZT Shongwe,

### **INTEGRATED ENVIRONMENTAL AUTHORISATION AND WASTE MANAGEMENT LICENSE APPLICATION: PROPOSED EXPANSION OF THE ASH DISPOSAL FACILITIES AT CAMDEN POWER STATION, MPUMALANGA**

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Thanking you in advance.

Kind regards,

#### **Tricia Njapha**

##### ***Public Participation Practitioner***

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## Tricia Njapha

---

**From:** Tricia Njapha  
**Sent:** 06 November 2014 01:31 PM  
**To:** 'spxulu@mpg.gov.za'  
**Cc:** 'okmosome@mpg.gov.za'; Tania Oosthuizen; Nicolene Venter; Leoni Lubbe  
**Subject:** 12670: Camden Power Station Ash Disposal Facility Expansion Project

**Importance:** High

Dear Ms Sindisiwe P Xulu,

Copied in this email: Ms Olda Mosome

### **INTEGRATED ENVIRONMENTAL AUTHORISATION AND WASTE MANAGEMENT LICENSE APPLICATION: PROPOSED EXPANSION OF THE ASH DISPOSAL FACILITIES AT CAMDEN POWER STATION, MPUMALANGA**

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*Public Participation Practitioner*

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## Tricia Njapha

---

**From:** Tricia Njapha  
**Sent:** 06 November 2014 01:22 PM  
**To:** 'mahlakudt@mpg.gov.za'  
**Cc:** Tania Oosthuizen; Nicolene Venter; Leoni Lubbe  
**Subject:** 12670: Camden Power Station Ash Disposal Facility Expansion Project

**Importance:** High

Dear Ms Thabile Matlaku,

### **INTEGRATED ENVIRONMENTAL AUTHORISATION AND WASTE MANAGEMENT LICENSE APPLICATION: PROPOSED EXPANSION OF THE ASH DISPOSAL FACILITIES AT CAMDEN POWER STATION, MPUMALANGA**

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Kind regards,

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## Tricia Njapha

---

**From:** Tricia Njapha  
**Sent:** 06 November 2014 01:23 PM  
**To:** 'mmposi@mpg.gov.za'  
**Cc:** Tania Oosthuizen; Nicolene Venter; Leoni Lubbe  
**Subject:** 12670: Camden Power Station Ash Disposal Facility Expansion Project

**Importance:** High

Dear Mr Mashudu Mposi,

### **INTEGRATED ENVIRONMENTAL AUTHORISATION AND WASTE MANAGEMENT LICENSE APPLICATION: PROPOSED EXPANSION OF THE ASH DISPOSAL FACILITIES AT CAMDEN POWER STATION, MPUMALANGA**

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Kind regards,

**Tricia Njapha**

*Public Participation Practitioner*

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---

**From:** Mashudu Mposi <mmposi@mpg.gov.za>  
**Sent:** 06 November 2014 03:25 PM  
**To:** Tricia Njapha  
**Subject:** Re: 12670: Camden Power Station Ash Disposal Facility ExpansionProject

Unfortunately I could not comment on the report due to time frames and busy schedule. However we will send our comments on the final draft of your report. Kind regards. Mashudu Mposi.

Sent from Samsung Mobile

----- Original message -----

From: Tricia Njapha <[trician@zitholele.co.za](mailto:trician@zitholele.co.za)>  
Date: 06/11/2014 13:22 (GMT+02:00)  
To: Mashudu Mposi <[MMposi@mpg.gov.za](mailto:MMposi@mpg.gov.za)>  
Cc: Leoni Lubbe <[Leonil@zitholele.co.za](mailto:Leonil@zitholele.co.za)>, Nicolene Venter <[nicolenev@zitholele.co.za](mailto:nicolenev@zitholele.co.za)>, Tania Oosthuizen <[taniao@zitholele.co.za](mailto:taniao@zitholele.co.za)>  
Subject: 12670: Camden Power Station Ash Disposal Facility Expansion Project

>>> "Tricia Njapha" 2014-11-06T13:43:02.269468 >>>

Dear Mr Mashudu Mposi,

**INTEGRATED ENVIRONMENTAL AUTHORISATION AND WASTE MANAGEMENT LICENSE APPLICATION: PROPOSED EXPANSION OF THE ASH DISPOSAL FACILITIES AT CAMDEN POWER STATION, MPUMALANGA**

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Thanking you in advance.

Kind regards,

## Tricia Njapha

---

**From:** Tricia Njapha  
**Sent:** 06 November 2014 01:28 PM  
**To:** 'mkumalo@mpg.gov.za'  
**Cc:** 'dmatlatji@mpg.gov.za'; Tania Oosthuizen; Nicolene Venter; Leoni Lubbe  
**Subject:** 12670: Camden Power Station Ash Disposal Facility Expansion Project

**Importance:** High

Dear Ms Makfalda Kumalo,

Copied in this email: Mr Dan Malatji

### **INTEGRATED ENVIRONMENTAL AUTHORISATION AND WASTE MANAGEMENT LICENSE APPLICATION: PROPOSED EXPANSION OF THE ASH DISPOSAL FACILITIES AT CAMDEN POWER STATION, MPUMALANGA**

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Thanking you in advance.

Kind regards,

**Tricia Njapha**

**Public Participation Practitioner**

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## Tricia Njapha

---

**From:** Tricia Njapha  
**Sent:** 06 November 2014 01:29 PM  
**To:** 'dmatlatji@mpg.gov.za'  
**Cc:** 'mkumalo@mpg.gov.za'; Tania Oosthuizen; Nicolene Venter; Leoni Lubbe  
**Subject:** 12670: Camden Power Station Ash Disposal Facility Expansion Project

**Importance:** High

Dear Mr Dan Malatji,

Copied in this email: Ms Makfalda Kumalo

### **INTEGRATED ENVIRONMENTAL AUTHORISATION AND WASTE MANAGEMENT LICENSE APPLICATION: PROPOSED EXPANSION OF THE ASH DISPOSAL FACILITIES AT CAMDEN POWER STATION, MPUMALANGA**

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Kind regards,

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## Tricia Njapha

---

**From:** Tricia Njapha  
**Sent:** 06 November 2014 02:01 PM  
**To:** 'S.Manyike@sanbi.org.za'  
**Cc:** Tania Oosthuizen; Nicolene Venter; Leoni Lubbe  
**Subject:** 12670: Camden Power Station Ash Disposal Facility Expansion Project

**Importance:** High

Dear Mr Sagwata Manyike,

### **INTEGRATED ENVIRONMENTAL AUTHORISATION AND WASTE MANAGEMENT LICENSE APPLICATION: PROPOSED EXPANSION OF THE ASH DISPOSAL FACILITIES AT CAMDEN POWER STATION, MPUMALANGA**

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*Public Participation Practitioner*

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## Tricia Njapha

---

**From:** Tricia Njapha  
**Sent:** 06 November 2014 01:30 PM  
**To:** 'PatriciaMJ@daff.gov.za'  
**Cc:** Tania Oosthuizen; Nicolene Venter; Leoni Lubbe  
**Subject:** 12670: Camden Power Station Ash Disposal Facility Expansion Project

**Importance:** High

Dear Ms Nomvuzo Mjadu,

### **INTEGRATED ENVIRONMENTAL AUTHORISATION AND WASTE MANAGEMENT LICENSE APPLICATION: PROPOSED EXPANSION OF THE ASH DISPOSAL FACILITIES AT CAMDEN POWER STATION, MPUMALANGA**

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Kind regards,

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*Public Participation Practitioner*

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## Leoni Lubbe

---

**From:** PatriciaMJ [PatriciaMJ@daff.gov.za]  
**Sent:** 07 November 2014 04:19 PM  
**To:** Leoni Lubbe; Nicolene Venter  
**Cc:** MaryJeanG  
**Subject:** Comments for C  
**Attachments:** Comments EIA Camden Ash Disposal Final f1.pdf

Good day

Please receive comments for Camden Ash Disposal, we are looking forward to provide our comments to the Final Draft.

Regards

Nomvuzo Mjadu  
Deputy Director Water Management  
Directorate Water Use and Irrigation Development  
Department of Agriculture, Forestry and Fisheries  
Tel 012 846 8597  
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agriculture,  
forestry & fisheries

Department:  
Agriculture, Forestry and Fisheries  
REPUBLIC OF SOUTH AFRICA

Tel: 012 848 8597

Fax: 086 668 7223

Email: PatriciaMJ@daff.gov.za

To:	Leoni Lubbe Zitholele Consulting	From:	Nomvuzo Mjadu Department of Agriculture, Forestry and Fisheries Directorate: Water Use and Irrigation Development
Cc:	Nicolene Venter	Date:	07 November 2014
Re:	<b>SUBJECT: INPUTS/ COMMENTS FOR DRAFT ENVIRONMENTAL IMPACT ASSESSMENT FOR THE PROPOSED EXTENSION OF ASH DISPOSAL FACILITY AT CAMDEN POWER STATION</b>		
<b>COMMENTS</b>			

Comments:

One of the major problems facing agricultural sector is the loss of high potential agricultural land and water pollution.

The study area is dominated by agricultural potential land and grazing land. The proposed areas (Alternative 1, 2 and 3) have agricultural activities taking place.

- On page 42 it is mentioned that there was a discussion with farmers on both Southern sites, who indicated that they do not want development within their farming land, but there is no mention of a discussion of this kind with the farmer(s) on the North, Site 1
- The DEIA report under impact identification, the impact on livestock around or in the vicinity of the proposed site was not considered
- Ash is known to be one of the dangerous airborne pollutants and when or if it comes to contact with pasture/ cattle feed it can cause disorder in cattle, characterized by chronic diarrhea, reduced growth and weight loss (Vikas Eknath Mahajan *et al*, 2012). Are there any plans to be put in place to address this, e.g.: provision of alternative grazing area?
- On page 54 of the Biophysical Report under Additional impacts it is mentioned that once operational the contaminated water could seep into freshwater bodies and impact the

health of plants and animals. What are the mitigation plans to be put in place to minimize this.

- In relation to water pollution, with the fact Vaal River is about 5km away, the DEAR does not consider pollution into the Vaal River which might be contributed by tributaries and streams via the Witpunt spruit, and therefore, it is recommended that monitoring of water quality is also conducted in the Vaal River.

The Department of Agriculture, Forestry and Fisheries (DAFF) acknowledges the need for continuous electricity generation to meet the growing demand, however in doing so Eskom should optimize on management plans to ensure that the current agricultural practices are not compromised.

**MS P. N. MJADU**

**DEPUTY DIRECTOR: WATER MANAGEMENT**

**DATE: 07.11.2014**



# agriculture, forestry & fisheries

Department:  
Agriculture, Forestry and Fisheries  
REPUBLIC OF SOUTH AFRICA

Directorate Land Use & Soil Management, P.O. Box 8806, NELSPRUIT, 1200  
27 Brown Street, 2nd Floor

Tel: (013) 754 0728 / 0701 ☐☐Fax: (013) 754 0735 ☐☐E-mail: MaryM@nda.agric.za  
Enquiries: MD Mogale Ref: LUSM/ 10/8/7/9 NIs/MP

The Regional Director  
Private Bag x7279  
WITBANK  
1035

04 November 2014

Attention: Mr. F Muronga

**INTEGRATED ENVIRONMENTAL AUTHORISATION AND WASTE MANAGEMENT LICENSE  
APPLICATION: PROPOSED EXPANSION OF THE ASH DISPOSAL FACILITIES AT CAMDEN POWER  
STATION MPUMALANGA**

Ref: MP 12/12/20/2300 EM

The Directorate: Land Use and Soil Management would like the applicant to ensure that:

- Detailed of soil studies must be included in the EMPR.
- Rehabilitation plan must be clearly stated and included in the EMPR.
- Pre and post mining use must be included in the EMPR.
- Weed and Invader Plants control management plan must be included in the EMPR.
- Detailed of sensitive areas like wetlands must be included in the EMPR.

Regards,

M.D Mogale  
Resource Auditor

## Tricia Njapha

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**From:** MaryM <MaryM@daff.gov.za>  
**Sent:** 27 November 2014 08:20 AM  
**To:** Tricia Njapha  
**Cc:** PatriciaMJ; tobileb@eskom.co.za; Tania Oosthuizen; Nicolene Venter  
**Subject:** Comments (Land Use and Soil Management)

Morning All

Firstly I would like to apologise for the inconveniences. I was not in the office and I had lots of comments on my computer. I send one of my colleagues to send you the comments, those comments were on my pc but that is not what we were supposed to send you. So she printed them and emailed you. I trusted her but unfortunately she send the wrong one. My mistake, I will email you the correct response from the Department. Can you please don't take that into consideration. Thought all is well I didn't go back and check the send items. That is not the correct comment

Hope you will find this in order

Regards  
Mary

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From: Tricia Njapha [<mailto:trician@zitholele.co.za>]  
Sent: 26 November 2014 10:11 AM  
To: MaryM  
Cc: PatriciaMJ; [tobileb@eskom.co.za](mailto:tobileb@eskom.co.za); Tania Oosthuizen; Nicolene Venter  
Subject: 12670: Letter to DAFF (Land Use and Soil Management)  
Importance: High

Dear Ms Mogale

### **INTEGRATED ENVIRONMENTAL AUTHORISATION PROCESS (EIA AND WASTE MANAGEMENT LICENSE APPLICATION) FOR THE PROPOSED EXTENSION OF THE ASH DISPOSAL FACILITY AND ASSOCIATED INFRASTRUCTURE AT CAMDEN POWER STATION NEAR ERMELO, MPUMALANGA PROVINCE**

**(DEA Ref. No: 12/12/20/2300 and NEAS Ref. No.: DEA/EIA/0000399/2011)**

- Response to Department of Forestry and Fisheries for comments on the Revised Draft Environmental Impact Assessment Report

I trust you are well.

With reference to your letter dated **04 November 2014**, kindly find also attached the responses thereto.

Please be informed that the comments raised and Zitholele Consulting's responses will be included in the Comments and Response Report of the Final Environmental Impact Assessment Report.

Should you have any queries, please do not hesitate to contact us.

## Tricia Njapha

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**From:** MaryM <MaryM@daff.gov.za>  
**Sent:** 27 November 2014 08:47 AM  
**To:** Tricia Njapha  
**Cc:** Tania Oosthuizen; tobileb@eskom.co.za; Nicolene Venter  
**Subject:** CAMDEN STATION COMMENTS  
**Attachments:** 20141127074515884.pdf

Morning

Please find attached.

My apology ones more we are using one computer being the 3 of us.

Regards  
Mary



# agriculture, forestry & fisheries

Department:  
Agriculture, Forestry and Fisheries  
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Enquiries: MD Mogale Ref: LUSM/ 10/8/7/9 NIs/MP  
CAMDEN STATION

The Regional Director  
Private Bag x7279  
WITBANK  
1035

04 November 2014

Attention: Mr M.F Muronga

**INTERTGRATED ENVIRONMENTAL AUTHORISATION AND WASTE MANAGEMENT LICENSE  
APPLICATION: PROPOSED EXPANSION OF THE WASTE DISPOSAL FACILITIES AT  
CAMDEN POWER STATION MPUMALANGA**

Ref: MP 12/12/20/2300 EM

The Directorate: Land Use and Soil Management does not have any comment.

Regards,

M.D Mogale  
Resource Auditor