



***Basic Assessment Report in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended, and the Environmental Impact Assessment Regulations, 2014 (Version 1)***

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Kindly note that:

1. This **Basic Assessment Report** is the standard report required by GDARD in terms of the EIA Regulations, 2014.
2. This application form is current as of 8 December 2014. It is the responsibility of the EAP to ascertain whether subsequent versions of the form have been published or produced by the competent authority.
3. **A draft Basic Assessment Report must be submitted, for purposes of comments within a period of thirty (30) days, to all State Departments administering a law relating to a matter likely to be affected by the activity to be undertaken.**
4. **A draft Basic Assessment Report (1 hard copy and two CD's) must be submitted, for purposes of comments within a period of thirty (30) days, to a Competent Authority empowered in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended to consider and decide on the application.**
5. Five (5) copies (3 hard copies and 2 CDs-PDF) of the final report and attachments must be handed in at offices of the relevant competent authority, as detailed below.
6. The report must be typed within the spaces provided in the form. The size of the spaces provided is not necessarily indicative of the amount of information to be provided. The report is in the form of a table that can extend itself as each space is filled with typing.
7. Selected boxes must be indicated by a cross and, when the form is completed electronically, must also be highlighted.
8. An incomplete report may lead to an application for environmental authorisation being refused.
9. **Any report that does not contain a titled and dated full colour large scale layout plan of the proposed activities including a coherent legend, overlain with the sensitivities found on site may lead to an application for environmental authorisation being refused.**
10. The use of "not applicable" in the report must be done with circumspection because if it is used in respect of material information that is required by the competent authority for assessing the application, it may result in the application for environmental authorisation being refused.
11. No faxed or e-mailed reports will be accepted. Only hand delivered or posted applications will be accepted.
12. Unless protected by law, and clearly indicated as such, all information filled in on this application will become public information on receipt by the competent authority. The applicant/EAP must provide any interested and affected party with the information contained in this application on request, during any stage of the application process.
13. Although pre-application meeting with the Competent Authority is optional, applicants are advised to have these meetings prior to submission of application to seek guidance from the Competent Authority.

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**DEPARTMENTAL DETAILS**

Gauteng Department of Agriculture and Rural Development  
Attention: Administrative Unit of the of the Environmental Affairs Branch  
P.O. Box 8769  
Johannesburg  
2000

Administrative Unit of the of the Environmental Affairs Branch  
Ground floor Diamond Building  
11 Diagonal Street, Johannesburg

Administrative Unit telephone number: (011) 240 3377  
Department central telephone number: (011) 240 2500

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(For official use only)

<b>NEAS Reference Number:</b>						
<b>File Reference Number:</b>						
<b>Application Number:</b>						
<b>Date Received:</b>						

If this BAR has not been submitted within 90 days of receipt of the application by the competent authority and permission was not requested to submit within 140 days, please indicate the reasons for not submitting within time frame.

This document will be submitted within time frame.

Is a closure plan applicable for this application and has it been included in this report?

No

If not, state reasons for not including the closure plan.

On decommissioning in the very long term (in 60 years+) it is likely that the pipelines and other infrastructure will be left in the ground. Again Rehabilitation will be considered as included in the EMPr.

Has a draft report for this application been submitted to a competent authority and all State Departments administering a law relating to a matter likely to be affected as a result of this activity?

Yes

Is a list of the State Departments referred to above attached to this report including their full contact details and contact person?

Yes

If no, state reasons for not attaching the list.

Have State Departments including the competent authority commented?

No

If no, why?

State Departments including the competent authority have not yet commented as the Draft Reports are currently under public review. Comments on the report are expected by mid-December 2019.

# SECTION A: ACTIVITY INFORMATION

## 1. PROPOSAL OR DEVELOPMENT DESCRIPTION

**Project title (must be the same name as per application form):**

The Construction of a Grootvlei Sewer Pump Station and the Upgrading of Sewer Rising Main Pipeline HDPE in Strubenvale, in Springs, Gauteng Province. ( GDARD Ref: 002/19-20/E0196)

Select the appropriate box

The application is for an upgrade of an existing development

The application is for a new development

Other, specify

Does the activity also require any authorisation other than NEMA EIA authorisation?

YES  NO

If yes, describe the legislation and the Competent Authority administering such legislation

The proposed project area within 500m buffer of wetland that required to be maintained, and the proposed upgrading sewer line is passing across a stream, and this triggered with National Water Act , 1998 (Act 36 of 1998), Section 21 (c) and (i) of which (c) explain: Impeding and diverting of a water flow in a watercourse, then (i) explain: Altering the bed, banks, course or characteristics of a watercourse”

Due to the activity triggered with legislation mention from above, it is therefore, the proposed activity will require Water Use License Application prior to the commencement.

The Competent Authority Administering of this legislation is the Department of Water and Sanitation.

If yes, have you applied for the authorization(s)?

YES  NO

If yes, have you received approval(s)? (attach in appropriate appendix)

YES  NO

## 2. APPLICABLE LEGISLATION, POLICIES AND/OR GUIDELINES

List all legislation, policies and/or guidelines of any sphere of government that are applicable to the application as contemplated in the EIA regulations:

Title of legislation, policy or guideline:

Administering authority:

Promulgation Date:

Title of legislation, policy or guideline:	Administering authority:	Promulgation Date:
National Environmental Management Act (NEMA), 1998 (Act No. 107 as amended).	National & Provincial	1998
Environmental Impact Assessment Regulations (EIAR), 2014 (as amended), including Listing Notice 3	Provincial	2017
National Water Act (NWA) (Act No. 36)	National	1998
Government Notice 509 (GN 509) as it relates to the NWA	National	2016
GDARD Requirements for Biodiversity Assessments Version 3 (GRBA)	Provincial	2014
Gauteng Conservation Plan (C-Plan 3.3)	Provincial	2012
Gauteng Agricultural Potential Atlas (GAPA IV) draft	Provincial	-
Gauteng Provincial Environmental Management Framework (GPEMF)	Provincial	2015
Constitution of the Republic of South Africa, (Act No. 108 of 1996)	National	18 December 1996
National Environmental Management Act, (Act No. 107 of 1998).	National & Provincial	27 November 1998
National Environmental Management: Waste Act, (Act No. 59 of 2008	National & Provincial	06 March 2008
National Environmental Management: Air Quality Act, (Act No. 39 of 2004)	National & Provincial	19 February 2005
National Environmental Management: Protected Areas Act, (Act No. 39 of 2004)	National & Provincial	11 February 2004
Occupational Health and Safety Act, (Act No. 85 of 1993)	National & Provincial	23 June 1993
National Heritage Resources Act, (Act No. 25 of 1999)	National & Provincial	28 April 1999

Description of compliance with the relevant legislation, policy or guideline:

Legislation, policy of guideline	Description of compliance
NEMA	The BA was done in line with principles and relevant sections of
EIAR	A BA process followed as required in the EIAR and triggering activity in Listing Notice 3.
NWA	The NWA was complied with in the wetland Freshwater Resource Assessment.
GN509	The GN509 was used to determine the boundaries of the Freshwater Resource Assessment.
GRBA	The GRB was complied with in the Freshwater Resource Assessment.
C-Plan 3.3	C-Plan 3.3 was one of the sensitive areas that triggered the
GAPA IV	GAPA IV was used to check that there would be no adverse impact of the activity on agriculture.
GPEMF	Zone 2 of the GPEMF was one of the sensitive areas that triggered the BA.

### 3. ALTERNATIVES

Describe the proposal and alternatives that are considered in this application. Alternatives should include a consideration of all possible means by which the purpose and need of the proposed activity could be accomplished. The determination of whether the site or activity (including different processes etc.) or both is appropriate needs to be informed by the specific circumstances of the activity and its environment.

The no-go option must in all cases be included in the assessment phase as the baseline against which the impacts of the other alternatives are assessed. **Do not** include the no go option into the alternative table below.

**Note:** After receipt of this report the competent authority may also request the applicant to assess additional alternatives that could possibly accomplish the purpose and need of the proposed activity if it is clear that realistic alternatives have not been considered to a reasonable extent.

Please describe the process followed to reach (decide on) the list of alternatives below

The alignments of the sewer rising is largely determined by the point of the sewer pump station, the lower point for the sewer pump station, the predetermined areas that have to be served as well as the available road reserves. The proposed site and road reserve area has low impacts on the side walk of private properties

Alternative was not considered in this draft BAR consists of only one proposed point of new sewer pump station away from the existing old sewer pump station and to reduce impacts, the possibility to install the pipeline through horizontal drilling underneath small perennial drainage instead of trenching. The issues identified during the public participation process as well as the specialist studies. These alternatives will be further considered based on comments and responses on this draft BAR.

Provide a description of the alternatives considered

No.	Alternative type, either alternative: site on property, properties, activity, design, technology, energy, operational or other(provide details of "other")	Description
1	Proposal	<p>The construction of new Grootvlei Sewer pump station :</p> <ul style="list-style-type: none"> <li>• Construct a new Grootvlei Sewer Pump Station house provided with ventilation.</li> <li>• Construct a single rectangular wet well below the pump house at 7.5m X 4m X 9m Deep</li> <li>• Installation of permanent hoist and monorail system in the pump house,</li> <li>• Installation of two 12.5kW submersible pumps to operate in 1 duty and 1 standby mode</li> <li>• Installation of a guardrail within wet well to easy access for pumps maintenance,</li> <li>• Installation of a 2 isolate valves,</li> <li>• Installation of a 2 swing check valves</li> <li>• Installation of a pump suction valves, and air valves</li> <li>• Construction of concrete valve chamber,</li> <li>• Construction of 100mm diameter hot deep galvanized steel pipe from wet well to valve chamber;</li> <li>• Installation of 2 flange adapters, and 2 magnetic flow metering and pressure gauge;</li> <li>• Installation of 50mm diameter uPVC pipe;</li> <li>• Construction of pavement, Parking, Vacuum Truck, Equipment Store</li> <li>• Installation of a 50kVA transformer;</li> <li>• Installation of 1 MCC Box,</li> <li>• Installation of Portable Emergency Generator</li> <li>• Water reservoir and pressure tank (not a listed activity in itself as its capacity is under the threshold).</li> </ul> <p>On the preferred route alignment with the bulk supply line crossing the river through a trench and embedded in concrete.</p>
2	Alternative 1	Not Applicable

In the event that no alternative(s) has/have been provided, a motivation must be included in the table below.

Investigation was the first matter to be considered before coming to proposal, and it was then concluded that, due to the existing old sewer pump station point on the banks/edge of a watercourse, it has to be moved away and only one point was proposed. On the proposed upgrading sewer rising main must go through at the same route of the existing line dew to the slope for the flow of sewage. The proposed point is at the downstream where all sewage must flow and be collected at one point in order to be conveyed to the sewer gravity outfall through submersible pump

#### 4. PHYSICAL SIZE OF THE ACTIVITY

Indicate the total physical size (footprint) of the proposal as well as alternatives. Footprints are to include all new infrastructure (roads, services etc.), impermeable surfaces and landscaped areas:

Proposed activity (**Total environmental (landscaping, parking, etc.) and the building footprint**)

**Size of the activity:**  
3320m<sup>2</sup>/  
0.3320Ha

Ha/ m<sup>2</sup>

**Alternatives: None**

Alternative 1 (if any)

Alternative 2 (if any)

Not applicable  
Not Applicable

or, for linear activities:

**Length of the activity:**

Proposed activity

7.5m long X 4m width of Pump House  
2km long x 1,2m width of pipeline.  
14m long 14m width of fence surround pump station

**Alternatives:**

Not Applicable

Indicate the size of the site(s) or servitudes (within which the above footprints will occur):

**Size of the site/servitude:**

Not Applicable

**Alternatives: none**

Alternative 1

Alternative 2

Alternative 3

Ha/M<sup>2</sup>

#### 5. SITE ACCESS

**Proposal**

Does ready access to the site exist, or is access directly from an existing road?

If NO, what is the distance over which a new access road will be built

YES

Describe the type of access road planned:

Proposed access road will be an upgrading of existing road from gravel to paved access road to intersect Van Niekerk road that Enter Acid Mine Drainage-Eastern Basin Treatment Plan. Proposed road will be 81m long and 4m width.

Include the position of the access road on the site plan (if the access road is to traverse a sensitive feature the impact thereof must be included in the assessment).

**Alternative 1**

Does ready access to the site exist, or is access directly from an existing road?

If NO, what is the distance over which a new access road will be built

Not Applicable

Describe the type of access road planned:

Not Applicable

Include the position of the access road on the site plan. (if the access road is to traverse a sensitive feature the impact thereof must be included in the assessment).

**Alternative 2**

Does ready access to the site exist, or is access directly from an existing road?

If NO, what is the distance over which a new access road will be built

No Alternative

Describe the type of access road planned:

Include the position of the access road on the site plan. (if the access road is to traverse a sensitive feature the impact thereof must be included in the assessment).

**PLEASE NOTE: Points 6 to 8 of Section A must be duplicated where relevant for alternatives**

Section A 6-8 has been duplicated 

See note below <sup>1</sup>
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 Number of times  
(only complete when applicable)

**6. LAYOUT OR ROUTE PLAN**

A detailed site or route (for linear activities) plan(s) must be prepared for each alternative site or alternative activity. It must be attached to this document. The site or route plans must indicate the following:

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<sup>1</sup> Note: Proposed Sewer Pump station layout is attached.

- the layout plan is printed in colour and is overlaid with a sensitivity map (if applicable);
- layout plan is of acceptable paper size and scale, e.g.
  - A4 size for activities with development footprint of 10sqm to 5 hectares;
  - A3 size for activities with development footprint of > 5 hectares to 20 hectares;
  - A2 size for activities with development footprint of >20 hectares to 50 hectares);
  - A1 size for activities with development footprint of >50 hectares);
- The following should serve as a guide for scale issues on the layout plan:
  - A0 = 1: 500
  - A1 = 1: 1000
  - A2 = 1: 2000
  - A3 = 1: 4000
  - A4 = 1: 8000 (±10 000)
- shapefiles of the activity must be included in the electronic submission on the CD's;
- the property boundaries and Surveyor General numbers of all the properties within 50m of the site;
- the exact position of each element of the activity as well as any other structures on the site;
- the position of services, including electricity supply cables (indicate above or underground), water supply pipelines, boreholes, sewage pipelines, septic tanks, storm water infrastructure;
- servitudes indicating the purpose of the servitude;
- sensitive environmental elements on and within 100m of the site or sites (including the relevant buffers as prescribed by the competent authority) including (but not limited thereto):
  - Rivers and wetlands;
  - the 1:100 and 1:50 year flood line;
  - ridges;
  - cultural and historical features;
  - areas with indigenous vegetation (even if it is degraded or infested with alien species);
- Where a watercourse is located on the site at least one cross section of the water course must be included (to allow the position of the relevant buffer from the bank to be clearly indicated)

#### **FOR LOCALITY MAP (NOTE THIS IS ALSO INCLUDED IN THE APPLICATION FORM REQUIREMENTS)**

- the scale of locality map must be at least 1:50 000. For linear activities of more than 25 kilometres, a smaller scale e.g. 1:250 000 can be used. The scale must be indicated on the map;
- the locality map and all other maps must be in colour;
- locality map must show property boundaries and numbers within 100m of the site, and for poultry and/or piggery, locality map must show properties within 500m and prevailing or predominant wind direction;
- for gentle slopes the 1m contour intervals must be indicated on the map and whenever the slope of the site exceeds 1:10, the 500mm contours must be indicated on the map;
- areas with indigenous vegetation (even if it is degraded or infested with alien species);
- locality map must show exact position of development site or sites;
- locality map showing and identifying (if possible) public and access roads; and
- the current land use as well as the land use zoning of each of the properties adjoining the site or sites.

## **7. SITE PHOTOGRAPHS**

Colour photographs from the center of the site must be taken in at least the eight major compass directions with a description of each photograph. Photographs must be attached under the appropriate Appendix. It should be supplemented with additional photographs of relevant features on the site, where applicable.

## **8. FACILITY ILLUSTRATION**

A detailed illustration of the activity must be provided at a scale of 1:200 for activities that include structures. The illustrations must be to scale and must represent a realistic image of the planned activity. The illustration must give a representative view of the activity to be attached in the appropriate Appendix.



# SECTION B: DESCRIPTION OF RECEIVING ENVIRONMENT

**Note:** Complete Section B for the proposal and alternative(s) (if necessary)

## Instructions for completion of Section B for linear activities

- 1) For linear activities (pipelines etc) it may be necessary to complete Section B for each section of the site that has a significantly different environment.
- 2) Indicate on a plan(s) the different environments identified
- 3) Complete Section B for each of the above areas identified
- 4) Attach to this form in a chronological order
- 5) Each copy of Section B must clearly indicate the corresponding sections of the route at the top of the next page.

Section B has been duplicated for sections of the route  times

## Instructions for completion of Section B for location/route alternatives

- 1) For each location/route alternative identified the entire Section B needs to be completed
- 2) Each alternative location/route needs to be clearly indicated at the top of the next page
- 3) Attach the above documents in a chronological order

Section B has been duplicated for location/route alternatives  times (complete only when appropriate)

## Instructions for completion of Section B when both location/route alternatives and linear activities are applicable for the application

Section B is to be completed and attachments order in the following way

- All significantly different environments identified for Alternative 1 is to be completed and attached in a chronological order; then
- All significantly different environments identified for Alternative 2 is to be completed and attached chronological order, etc.

Section B - Section of Route  (complete only when appropriate for above)

Section B – Location/route Alternative No.  (complete only when appropriate for above)

## 1. PROPERTY DESCRIPTION

**Property description:**  
(Including Physical Address and Farm name, portion etc.)

- Proposed Area belong to the City of Ekurhuleni Metropolitan Municipality, It is located on the local jurisdiction of Springs Civic Center which is a local Municipality in Spring.
- It is fall under Municipal Ward 75 at Strubenvale suburb area, Springs, in Gauteng Province.
- Proposed area is closed to the Water and Sanitation Acid Mine Drainage-Eastern Basin Treatment Plant .
- This area is found on the Grootvlei Farm 124 IR and this proposed activity belongs to the City of Ekurhuleni.

## 2. ACTIVITY POSITION

Indicate the position of the activity using the latitude and longitude of the Centre point of the site for each alternative site. The co-ordinates should be in decimal degrees. The degrees should have at least six decimals to ensure adequate accuracy. The projection that must be used in all cases is the WGS84 spheroid in a national or local projection.

Alternative: None

Latitude (S):  Longitude (E):

In the case of linear activities:

**Alternative<sup>2</sup>: None**

- Starting point of the activity
- Middle point of the activity
- End point 1 of the activity
- End point 2 o of the activity
- End point 3 of the activity
- End point 4 of the activity

**Latitude (S):**

**Longitude (E):**


For route alternatives that are longer than 500m please provide co-ordinates taken every 250 meters along the route and attached in the appropriate Appendix<sup>3</sup>

Addendum of route alternatives attached

The 21 digit Surveyor General code of each cadastral land parcel

**3. GRADIENT OF THE SITE**

Indicate the general gradient of the site.

Flat	1:50 – 1:20	1:20 – 1:15	1:15 – 1:10	1:10 – 1:7,5	1:7,5 – 1:5	Steeper than 1:5
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**4. LOCATION IN LANDSCAPE**

Indicate the landform(s) that best describes the site.

Ridgeline	Plateau	Side slope of hill/ridge	Valley	Plain	Undulating plain/low hills	River front
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**5. GROUNDWATER, SOIL AND GEOLOGICAL STABILITY OF THE SITE**

a) Is the site located on any of the following?

Shallow water table (less than 1.5m deep)	YES <sup>4</sup>	NO
Dolomite, sinkhole or doline areas	YES	NO
Seasonally wet soils (often close to water bodies)	YES	NO
Unstable rocky slopes or steep slopes with loose soil	YES	NO
Dispersive soils (soils that dissolve in water)	YES	NO
Soils with high clay content (clay fraction more than 40%)	YES	NO
Any other unstable soil or geological feature	YES	NO
An area sensitive to erosion	YES	NO

(Information in respect of the above will often be available at the planning sections of local authorities. Where it exists, the 1:50 000 scale Regional Geotechnical Maps prepared by Geological Survey may also be used).

b) are any caves located on the site(s)

If yes to above provide location details in terms of latitude and longitude and indicate location on site or route map(s)

**Latitude (S):**  **Longitude (E):**

c) are any caves located within a 300m radius of the site(s)

If yes to above provide location details in terms of latitude and longitude and indicate location on site or route map(s)

**Latitude (S):**  **Longitude (E):**

d) are any sinkholes located within a 300m radius of the site(s)

If yes to above provide location details in terms of latitude and longitude and indicate location on site or route map(s)

**Latitude (S):**  **Longitude (E):**

If any of the answers to the above are "YES" or "unsure", specialist input may be requested by the Department

**6. AGRICULTURE**

Does the site have high potential agriculture as contemplated in the Gauteng Agricultural Potential Atlas (GAPA 4)?

NO

**Please note:** The Department may request specialist input/studies in respect of the above.

## 7. GROUNDCOVER

To be noted that the location of all identified rare or endangered species or other elements should be accurately indicated on the site plan(s).

Indicate the types of groundcover present on the site and include the estimated percentage found on site

Natural veld - good condition % =	Natural veld with scattered aliens % =	Natural veld with heavy alien infestation % =20	Veld dominated by alien species % =25	Landscaped (vegetation) % =
Sport field % =	Cultivated land % =	Paved surface (hard landscaping) % =25	Building or other structure % = 20	Bare soil % =15

**Please note:** The Department may request specialist input/studies depending on the nature of the groundcover and potential impact(s) of the proposed activity/ies.

Are there any rare or endangered flora or fauna species (including red list species) present on the site

YES	NO
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If YES, specify and explain:

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Are there any rare or endangered flora or fauna species (including red list species) present within a 200m (if within urban area as defined in the Regulations) or within 600m (if outside the urban area as defined in the Regulations) radius of the site.

YES	NO
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<sup>4</sup> The sewer rising main will cross a perennial river next to the Smythe road through horizontal drilling.

<sup>5</sup> Due to the linear nature of the activity and the fact that it is located almost entirely in road reserves the impact on Agriculture will be minimal and is not considered further.

If YES, specify and explain:

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Are there any special or sensitive habitats or other natural features present on the site?

YES	NO
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If YES, specify and explain:

-Proposed area will have a low impact on the sensitive habitants or other natural feature present on site.

-The proposed Sewer pump station is on the disturbed land which consist of asphalt paved ground, crushed small stone, old mine destructed building, concrete with reinforcements destructed slabs, an old building wall, and old tyres.

-Proposed area is away from wetland at a distance of 180m south west, 225m northwest, 140m on the north.

-Since proposed portion is covered with none natural materials, it is highly covered with alien species than natural vegetation.

-The proposed activity will have low impact on the stream due to the horizontal drilling system to be used than excavating that would have highly impact on the stream.

-The Impacts are rated low due to horizontal drilling on the portion of +/-25m long. No Impact s will affect the entire wetland since the proposed area is away from the wetland.

During construction it must be strictly noted that, monitoring must be carried always to prevent non-compliance due to chemical spillages. Waste management must be of a first priority during construction. Compliance with GDARD conditions, EMPr, BAR, and DWS condition must be strictly considered during construction of the proposed activity.

Was a specialist consulted to assist with completing this section

YES	NO
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If yes complete specialist details

Name of the specialist:

**Naledzani Environmental Service**

Qualification(s) of the specialist:

**Pr. Sc. Nat.**

Postal address:

**Suit 211, Elephant House, 107 Albertina Sisulu Street, Johannesburg**

Postal code:

**2107**

Telephone:

**N/A**

E-mail:

[ramalivhanam@gmail.com](mailto:ramalivhanam@gmail.com)

Are any further specialist studies recommended?

YES	
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If YES, specify:

Heritage Impact Assessment studies  
YES

If YES, is such a report(s) attached?

If YES list the specialist reports attached below

- Wetland Impact Assessment Report,
- Biodiversity Assessment Report,
- Heritage Impact Assessment Report

Signature of specialist: See specialist report Date:

See specialist report

**Please note;** If more than one specialist was consulted to assist with the filling in of this section then this table must be appropriately duplicated

## 8. LAND USE CHARACTER OF SURROUNDING AREA

Using the associated number of the relevant current land use or prominent feature from the table below, fill in the position of these land-uses in the vacant blocks below which represent a 500m radius around the site

1. Vacant land	2. River, stream, wetland	3. Nature conservation area	4. Public open space	5. Koppie or ridge
6. Dam or reservoir	7. Agriculture	8. Low density residential	9. Medium to high density residential	10. Informal residential
11. Old age home	12. Retail	13. Offices	14. Commercial & warehousing	15. Light industrial
16. Heavy industrial <sup>AN</sup>	17. Hospitality facility	18. Church	19. Education facilities	20. Sport facilities
21. Golf course/polo fields	22. Airport <sup>N</sup>	23. Train station or shunting yard <sup>N</sup>	24. Railway line <sup>N</sup>	25. Major road (4 lanes or more) <sup>N</sup>
26. Sewage treatment plant <sup>A</sup>	27. Landfill or waste treatment site <sup>A</sup>	28. Historical building	29. Graveyard	30. Archeological site
31. Open cast mine	32. Underground mine	33. Spoil heap or slimes dam <sup>A</sup>	34. Small Holdings	
Other land uses (describe):	Underground acid mine			

**Please note:** The Department may request specialist input/studies depending on the nature of the land use character of the area and potential impact(s) of the proposed activity/ies. Specialist reports that look at health & air quality and noise impacts may be required for any feature above and in particular those features marked with an "A" and with an "N" respectively.

Have specialist reports been attached 

YES	
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If yes indicate the type of reports below

Biodiversity Impact Assessment Report is Attached, and Wetland Impact Assessment and Heritage
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## 9. SOCIO-ECONOMIC CONTEXT

Describe the existing social and economic characteristics of the area and the community condition as baseline information to assess the potential social, economic and community impacts.

The area consists of old mining towns, industrial areas, formal settlement, large undermined areas with remnant of mining related activities above ground. Due to the closure of the mines employment opportunities are very scarce. Skills in the technical field previously used by the mines are still prevalent in the area, which create an opportunity for reapplication in an industrial and urban development scenario. Major development initiatives are needed to provide employment opportunities and to make use of the human capital in the area.

## 10. CULTURAL/HISTORICAL FEATURES

Please be advised that if section 38 of the National Heritage Resources Act 25 of 1999 is applicable to your proposal or alternatives, then you are requested to furnish this Department with written comment from the South African Heritage Resource Agency (SAHRA) – Attach comment in appropriate annexure

38. (1) Subject to the provisions of subsections (7), (8) and (9), any person who intends to undertake a development categorised as-
- (a) the construction of a road, wall, powerline, pipeline, canal or other similar form of linear development or barrier exceeding 300m in length;
  - (b) the construction of a bridge or similar structure exceeding 50m in length; (c) any development or other activity which will change the character of a site-
    - (i) exceeding 5 000 m2 in extent; or
    - (ii) involving three or more existing erven or subdivisions thereof; or
    - (iii) involving three or more erven or divisions thereof which have been consolidated within the past five years; or
    - (iv) the costs of which will exceed a sum set in terms of regulations by SAHRA or a provincial heritage resources authority;
  - (d) the re-zoning of a site exceeding 10 000 m2 in extent; or
  - (e) any other category of development provided for in regulations by SAHRA or a provincial heritage resources authority, must at the very earliest stages of initiating such a development, notify the responsible heritage resources authority and furnish it with details regarding the location, nature and extent of the proposed development.

Are there any signs of culturally (aesthetic, social, spiritual, environmental) or historically significant elements, as defined in section 2 of the National Heritage Resources Act, 1999, (Act No. 25 of 1999), including archaeological or palaeontological sites, on or close (within 20m) to the site?

YES	
-----	--

If YES, explain:

- Several majestic existing tree lanes of the 1940's and 1960's are present in the area and make a significant contribution to the sense of place.
- Proposed area is closed to mining area and it is on the area where the mining structure of administration was facilitated, or mining accommodation was established, only old destructed structures remain, tarred area, with a remaining walls still standing.
- Area proposed area has a history since is known as the first area to be independent after apartheid era.
- It is closed to a very beautiful Grootvlei wetland which consist of a bed of reeds, that create a wonderful significant element in the area which accommodate so many different type of birds,
- Along Largo road there are aesthetic trees that will be very difficult to allow being destructed or disturbed during Construction.

If uncertain, the Department may request that specialist input be provided to establish whether there is such a feature(s) present on or close to the site.

Briefly explain the findings of the specialist if one was already appointed:

- Wetland was found that the area does not have much impacts on the wetland and on the vegetation due to the fact that on the stream: Horizontal Drilling System will be the one to be used as designed.
- On the Ecology or vegetation due to the small area proposed for sewer pump station which mostly covered with alien species, low impacts on natural vegetation are expected during construction.
- Though on the lane trees along Largo road recommend that under no circumstances no destruction of any trees along the road.

Will any building or structure older than 60 years be affected in any way?  
Is it necessary to apply for a permit in terms of the National Heritage Resources Act, 1999  
(Act 25 of 1999)?  
If yes, please attached the comments from SAHRA in the appropriate Appendix

YES	NO
YES	NO

## SECTION C: PUBLIC PARTICIPATION (SECTION 41)

1. The Environmental Assessment Practitioner must conduct public participation process in accordance with the requirement of the EIA Regulations, 2014.

### 2. LOCAL AUTHORITY PARTICIPATION

Local authorities are key interested and affected parties in each application and no decision on any application will be made before the relevant local authority is provided with the opportunity to give input. The planning and the environmental sections of the local authority must be informed of the application at least thirty (30) calendar days before the submission of the application to the competent authority.

Was the draft report submitted to the local authority for comment?

YES	<input type="checkbox"/>
-----	--------------------------

If yes, has any comments been received from the local authority?

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

If "YES", briefly describe the comment below (also attach any correspondence to and from the local authority to this application):

If "NO" briefly explain why no comments have been received or why the report was not submitted if that is the case.

Draft Basic Assessment Report is still on the public review for 30 day and then no comments had been received yet

### 3. CONSULTATION WITH OTHER STAKEHOLDERS

Any stakeholder that has a direct interest in the activity, site or property, such as servitude holders and service providers, should be informed of the application at least **thirty (30) calendar days** before the submission of the application and be provided with the opportunity to comment.

Has any comment been received from stakeholders?

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

If "YES", briefly describe the feedback below (also attach copies of any correspondence to and from the stakeholders to this application):

If "NO" briefly explain why no comments have been received

Draft Basic Assessment is still under public review

### 4. GENERAL PUBLIC PARTICIPATION REQUIREMENTS

The Environmental Assessment Practitioner must ensure that the public participation process is adequate and must determine whether a public meeting or any other additional measure is appropriate or not based on the particular nature of each case. Special attention should be given to the involvement of local community structures such as Ward Committees and ratepayers associations. Please note that public concerns that emerge at a later stage that should have been addressed may cause the competent authority to withdraw any authorisation it may have issued if it becomes apparent that the public participation process was flawed.

The EAP must record all comments and respond to each comment of the public / interested and affected party before the application report is submitted. The comments and responses must be captured in a Comments and Responses Report as prescribed in the regulations and be attached to this application.

## 5. APPENDICES FOR PUBLIC PARTICIPATION

All public participation information is to be attached in the appropriate Appendix. The information in this Appendix is to be ordered as detailed below

Appendix 1 – Proof of site notice

Appendix 2 – Written notices issued as required in terms of the regulations

Appendix 3 – Proof of newspaper advertisements

Appendix 4 – Communications to and from interested and affected parties

Appendix 5 – Minutes of any public and/or stakeholder meetings Appendix

6 - Comments and Responses Report

Appendix 7 –Comments from I&APs on Basic Assessment (BA) Report

Appendix 8 –Comments from I&APs on amendments to the BA Report

Appendix 9 – Copy of the register of I&APs

# SECTION D: RESOURCE USE AND PROCESS DETAILS

**Note:** Section D is to be completed for the proposal and alternative(s) (if necessary)

### Instructions for completion of Section D for alternatives

- 1) For each alternative under investigation, where such alternatives will have different resource and process details (e.g. technology alternative), the entire Section D needs to be completed
- 4) Each alternative needs to be clearly indicated in the box below
- 5) Attach the above documents in a chronological order

Section D has been duplicated for alternatives  times (complete only when appropriate)

Section D Alternative No.  (complete only when appropriate for above)

## 1. WASTE, EFFLUENT, AND EMISSION MANAGEMENT

### Solid waste management

Will the activity produce solid construction waste during the construction/initiation phase?

YES	NO
-----	----

If yes, what estimated quantity will be produced per month?

150m <sup>3</sup>
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How will the construction solid waste be disposed of (describe)?

The construction waste will be disposed of at an appropriately licensed municipal landfill site.

Where will the construction solid waste be disposed of (describe)?

At an appropriately licensed municipal landfill site.

Will the activity produce solid waste during its operational phase?

YES	NO
-----	----

If yes, what estimated quantity will be produced per month?

m <sup>3</sup>
----------------

How will the solid waste be disposed of (describe)?

Has the municipality or relevant service provider confirmed that sufficient air space exists for treating/disposing of the solid waste to be generated by this activity?

YES	NO
-----	----

Where will the solid waste be disposed if it does not feed into a municipal waste stream (describe)?

**Note:** If the solid waste (construction or operational phases) will not be disposed of in a registered landfill site or be taken up in a municipal waste stream, the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

Can any part of the solid waste be classified as hazardous in terms of the relevant legislation?

YES	NO
-----	----

If yes, inform the competent authority and request a change to an application for scoping and EIA.

Is the activity that is being applied for a solid waste handling or treatment facility?

YES	NO
-----	----

If yes, the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.



Describe the measures, if any, that will be taken to ensure the optimal reuse or recycling of materials:

Not Applicable

**Liquid effluent (other than domestic sewage)**

Will the activity produce effluent, other than normal sewage, that will be disposed of in a municipal sewage system?

YES	NO
-----	----

If yes, what estimated quantity will be produced per month?

m<sup>3</sup>

If yes, has the municipality confirmed that sufficient capacity exist for treating / disposing of the liquid effluent to be generated by this activity(ies)?

YES	NO
-----	----

Will the activity produce any effluent that will be treated and/or disposed of on site?

Yes	NO
-----	----

If yes, what estimated quantity will be produced per month?

m<sup>3</sup>

If yes describe the nature of the effluent and how it will be disposed.

Note that if effluent is to be treated or disposed on site the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA

Will the activity produce effluent that will be treated and/or disposed of at another facility?

YES	NO
-----	----

If yes, provide the particulars of the facility:

Facility name:			
Contact person:			
Postal address:			
Postal code:			
Telephone:		Cell:	
E-mail:		Fax:	

Describe the measures that will be taken to ensure the optimal reuse or recycling of waste water, if any:

Not Applicable

**Liquid effluent (domestic sewage)**

Will the activity produce domestic effluent that will be disposed of in a municipal sewage system?

YES	NO
-----	----

If yes, what estimated quantity will be produced per month?

m<sup>3</sup>

If yes, has the municipality confirmed that sufficient capacity exist for treating / disposing of the domestic effluent to be generated by this activity(ies)?

YES	NO
-----	----

Will the activity produce any effluent that will be treated and/or disposed of on site?

YES	NO
-----	----

If yes describe how it will be treated and disposed off.

**Emissions into the atmosphere**

Will the activity release emissions into the atmosphere?

YES	NO
-----	----

If yes, is it controlled by any legislation of any sphere of government?

YES	NO
-----	----

If yes, the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

If no, describe the emissions in terms of type and concentration:

Proposed activity will not produce any emission to the atmosphere since it is a collection of Sewage from community households, and be conveyed to the gravity outfalls to be discharge to the wastes water treatment plant

**2. WATER USE**

Indicate the source(s) of water that will be used for the activity

Municipal	Directly from water board	groundwater	river, stream, dam or lake	other	the activity will not use water
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If water is to be extracted from groundwater, river, stream, dam, lake or any other natural feature, please indicate the volume that will be extracted per month:

No

If Yes, please attach proof of assurance of water supply, e.g. yield of borehole, in the appropriate Appendix

Does the activity require a water use permit from the Department of Water Affairs?

YES	
-----	--

If yes, list the permits required

Due to the fact that the proposed area is falling on the 500m wetland buffer area to be maintained, and again the proposed upgrading sewer rising main pipelined will be crossing a stream it will require permission from Water and Sanitation Department, through Application of Water Use License, because it triggered with Section 21 (c) and (i) of Impeding and Diverting the water flow of a watercourse, and Altering of the bed, banks, coarse, or characteristic of a watercourse. Permit required is General Water Use License

If yes, have you applied for the water use permit(s)?

YES	
-----	--

If yes, have you received approval(s)? (attached in appropriate appendix)

	NO
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### 3. POWER SUPPLY

Please indicate the source of power supply eg. Municipality / Eskom / Renewable energy source

Municipality.

If power supply is not available, where will power be sourced from?

### 4. ENERGY EFFICIENCY

Describe the design measures, if any, that have been taken to ensure that the activity is energy efficient:

Electricity will be used from the grid to power sewer pumps for the pump station to convey water to sewer gravity outfall.

Describe how alternative energy sources have been taken into account or been built into the design of the activity, if any:

Emergency power provisions will include standard HD receptacle for the connection of a portable emergency generator.

## SECTION E: IMPACT ASSESSMENT

The assessment of impacts must adhere to the minimum requirements in the EIA Regulations, 2014, and 2017 should take applicable official guidelines into account. The issues raised by interested and affected parties should also be addressed in the assessment of impacts as well as the impacts of not implementing the activity (Section 24(4)(b)(i)).

### 1. ISSUES RAISED BY INTERESTED AND AFFECTED PARTIES

Summarise the issues raised by interested and affected parties.

Not Yet Receive any Comments, Issues, Consents, and Responds from I&APs since that Basic Assessment is still under review public review.

Summary of response from the practitioner to the issues raised by the interested and affected parties (including the manner in which the public comments are incorporated or why they were not included)  
(A full response must be provided in the Comments and Response Report that must be attached to this report):

The Affected Parties are not yet comment since a Draft Basic Assessment still on the review process.

### 2. IMPACTS THAT MAY RESULT FROM THE CONSTRUCTION AND OPERATIONAL PHASE

Please note that the potential impacts of the sewer pump station and upgrading of sewer rising main has not been assessed for the following reasons: In itself it is not a listed activity; and Based on the screening process it is not of the size or area that triggers a BAR.

Briefly describe the methodology utilised in the rating of significance of impacts

#### ASSESSMENT CRITERIA

The assessment of the impact was done according to a synthesis of criteria as suggested in the integrated Environmental Management philosophy in South Africa. The criteria and their definitions are listed below:

#### a) Nature of the impact

This is an appraisal of the type and effect the activity would have on the affected environment component. Its description should include what is being affected, and how.

#### b) Extent

The physical or spatial size of the impact. This is classified as:

##### i. Local

The impacted re extends only as far as the activity, for example a footprint.

##### ii. Site

The impact could affect the site on which it occurs.

##### iii. Regional

The impact could affect the regional area in which it occurs.

**c) Duration**

The timeline of the impact. This is measured in context to the life-time of the proposed base.

i. Short term

The impact will either disappear with mitigation or will be mitigated through a natural process in one seasonal cycle.

ii. Medium term

The impact will last up to the end of the construction phase of the proposed base, where after it can be entirely negated.

iii. Long term

The impact will continue or last for the entire operational life of the base, but will be mitigated either by direct human action or a natural process thereafter.

iv. Permanent

The only class of impact which will be non-transitory. Mitigation either by man or natural process will not occur in such a way or in such a time span that the impact can be considered transient.

**d) Intensity**

Is the impact destructive or benign? Does it destroy the impacted environment, alter its functioning, or slightly alter it? Rated as:

i) Low

The impact alters the affected environment in such a way that the natural process or functions are not affected.

ii) Medium

The affected environment is altered, but functions and process continue, albeit in a modified way.

iii) High

Function or process of the affected environment is disturbed to the extent where it temporarily or permanently ceases. Also if the impact is deemed to constitute health or safety hazard to personnel. This will be a relative evaluation within the context of all activities and other impacts within the framework of the project.

**e) Probability**

The likelihood of the impact actually occurring. (The impact might occur for any length of time during the life cycle of the activity, and at any given time). Rating classes:

i) Improbable

The possibility of the impact occurring is very low, due to circumstance, design or historic experience.

ii) Probable

There is a possibility that the impact will occur to the extent that provision must be made therefore.

iii) Highly probable

It is most likely that the impact will occur at some stage of the activity. Plans must be drawn up before the undertaking of that activity to mitigate possible impacts.

iv) Definite

The impact will occur regardless of any prevention plans, and there can only be relied on mitigation actions or contingency plans to contain the effect.

**f) Determination of significance**

Significance was determined through a synthesis of impact characteristics. Significance is an indication of the

importance of the impact in terms of both physical extent of time scale, and therefor indicates the level of mitigation required.

Unmitigated impacts were considered. This provides a more realistic consideration of the actual and potential impacts of the project, and allows for a prioritization of mitigation.

Potential mitigation was included to establish the net impacts that can be expected provided that the EMP is implemented effectively.

Briefly describe and compare the potential impacts (as appropriate), significance rating of impacts, proposed mitigation and significance rating of impacts after mitigation that are likely to occur as a result of the construction phase for the various alternatives of the proposed development. This must include an assessment of the significance of all impacts.

**Proposal**

Potential impacts:	Significance rating of impacts (positive or negative):	Proposed mitigation:	Significance rating of impacts after mitigation:	Risk of the impact and mitigation not being implemented
Enable the development of the Grootvlei as described in the need and desirability section of this BAR	Very High positive (long term)	N/A	Very High positive (long term)	Probable
Digging of trenches Across, and along roads reserve and properties	High negative (short term)	Strict adherence to the Environmental Management Programme (Appendix H)	Low negative	Improbable
Digging of trenches across parking and along lots of shopping centers	High negative (short term)	Strict adherence to the Environmental Management Programme (Appendix H)	Medium negative	Improbable
Damage tree lanes	Very high negative	<p>All historical tree lanes must be avoided as far as possible by the proposed bulk Infrastructure.</p> <p>Preventative mitigation includes routing alternatives and no digging, trenching or excavation within two (2) m from the base of a historical tree or lane should be allowed.</p> <p>Where localized trees are impacted by the proposed infrastructure a condition assessment of the surrounding trees may be required to limit the impact on well-developed healthy specimens.</p> <p>Where there are no other alternatives and a tree/trees has to be removed a new tree/trees must be planted in its place.</p> <p>All tree roots exposed during construction activities must be treated with an appropriate fungicide and sealed with an approved tree sealant to avoid the introduction of wood rotting fungus and other pathogens.</p>	Medium to high negative depending to the extent that it will be possible to avoid tree lanes completely in practice.	Probable

<p>Crossing the stream with a horizontal drilling pipe in pipe sleeve casing</p>	<p>High negative (short term)</p>	<p>Contractor laydown areas and stockpiles must be established outside of the delineated CVB and applicable GDARD setback area.</p> <p>Vehicles must be serviced at the contractor laydown area, and any concrete mixing (if used during construction) must be undertaken in the laydown area.</p> <p>Concrete may require additional mixing onsite, and when this occurs batter boards must be used and sheeting shall be laid down to ensure concrete does not contaminate outside of the trenches.</p> <p>Should any leakages from construction</p>	<p>Low</p>	<p>Improbable</p>
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		<p>vehicles or material containers occur, they should be cleaned up immediately and the waste disposed of at a suitable disposal site.</p> <p>Refueling of vehicles should take place on a sealed surface to prevent ingress of hydrocarbons into the soil.</p> <p>Construction vehicles should be restricted to designated roads only.</p> <p>The wetland must be clearly demarcated with danger tape by the ECO and marked as a no-go area outside of the proposed crossing area.</p> <p>During trenching within close proximity to the wetland, no stockpiling of soils may take place within the 30m GDARD Setback area, and stockpiles may not exceed 2m in height.</p> <p>All exposed soils must be protected for the duration of the construction phase with a suitable geotextile (e.g. Geojute or hessian sheeting) in order to prevent erosion and sedimentation of the wetland.</p> <p>Excavated soil should be used to close off the trenches, immediately after inserting the pipeline within the GDARD Setback area.</p> <p>The area must be rehabilitated after the completion of the construction phase. In addition, an alien vegetation eradication Programme must be implemented.</p> <p>If stockpiled soil is to be used for rehabilitation purposes such as revegetation, all alien vegetation should be removed from the soil before use, to avoid spread of alien vegetation.</p> <p>The contractor laydown area should be rehabilitated with indigenous species when construction is completed. Monitoring of these rehabilitated areas should take place a year after the construction has been completed to ensure vegetation growth.</p> <p>An alien vegetation monitoring Programme should be developed and implemented for the first growing season after construction activities have taken place.</p> <p>With regards to the diversion of flow in preparation for open trenching:</p> <ul style="list-style-type: none"> <li>-Open trenching should be done in a phased manner, in half width sections of the wetland;</li> <li>-All proposed activities will potentially result in bank destabilization, and bank incision and sedimentation of the wetland, therefore, sediment control devices should be installed in place prior to diverting the flow;</li> <li>-Ensure that the creation of the diversion (by means of sandbags)</li> </ul>		
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		<p>does not result in a significant water level difference upstream or downstream of the installation site</p> <ul style="list-style-type: none"> <li>- no ponding of water upstream should occur;</li> </ul> <p>The diversion sandbags should be filled with clean river sand or soils from the surrounding area to prevent foreign material being introduced to the wetland;</p> <p>-The duration of impacts within the wetland should be minimized as far as possible by ensuring that the duration of time in which flow alteration and sedimentation will take place is minimized. Therefore, the construction period should be kept as short as possible; and</p> <p>-Restrict construction activities to the drier months, so as to limit the possibility of permanent changes to the system.</p> <p>During trenching, soil removed from the dewatered section should be stockpiled outside of the delineated portions of the wetland.</p> <p>Excavated materials (from the trenches) should not be contaminated (by leaking fuel lines from construction vehicles, or by general litter) and it should be ensured that the minimum surface area is taken up, however the stockpiles may not exceed 2m in height.</p> <p>Mixture of the lower and upper layers of the excavated soil should be kept to a minimum, so as for later usage as backfill material.</p> <p>All exposed soils must be protected for the duration of the construction phase with a suitable geotextile (e.g. Geojute or hessian sheeting) in order to prevent erosion and sedimentation of the wetland.</p> <p>With regards to concrete mixing on site:</p> <ul style="list-style-type: none"> <li>• No mixed concrete may be deposited outside of the designated construction footprint;</li> <li>• As far as possible, concrete mixing should be restricted to the contractor laydown area.</li> <li>• Additionally, batter / dagga board mixing trays and impermeable sumps should be provided, onto which any mixed concrete can be deposited whilst it awaits placing; and</li> <li>• Concrete spilled outside of the demarcated area must be promptly removed and taken to a suitably licensed waste disposal site.</li> </ul> <p>With regards to backfilling of the concrete encasing:</p> <ul style="list-style-type: none"> <li>• Soils removed for excavating the</li> </ul>		
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		<ul style="list-style-type: none"> <li>trenches should be used as backfill material;</li> <li>Backfill up to the top of the encasing and place a Grade B Bidem layer over the full width of the trench;</li> <li>Backfill the trench to the stream bed level with excavated trench material;</li> <li>Soil must be re-compacted and all construction material must be removed from site upon the completion of construction.</li> </ul> <p>It should be ensured that additional wetland areas are not inundated as a result of leaks or bursting of the pipeline, and that an emergency plan be compiled to ensure a quick response and attendance to the matter in case of a leakage or bursting of the pipeline.</p> <p>Only existing roadways should be utilised during maintenance and monitoring activities to avoid indiscriminate movement of vehicles through the wetland.</p> <p>Should repair of the pipeline be required to address major leaks (only if the pipeline could not be repaired through the manholes), mitigations as per activity 3 above as applicable depending upon the location of the leak.</p>		
Construction noise	Medium negative	Strict adherence to the Environmental Management Programme (Appendix H)	Low negative	Improbable
Damage to areas outside trenches (pipeline footprint)	Medium negative	Strict adherence to the Environmental Management Programme (Appendix H)	Low negative	Improbable
Dust generation by construction activities	Medium negative	Strict adherence to the Environmental Management Programme (Appendix H)	Low negative	Improbable

**Alternative 1** (N/A)

**Alternative 2** (N/A)

**Alternative 3** (N/A)

**No Go Areas:**

Potential impacts:	Significance rating of impacts (positive or negative):	Proposed mitigation:	Significance rating of impacts after mitigation:	Risk of the impact and mitigation not being implemented
The construction of the Grootvlei Sewer Pump Station will not be able to proceed as there will be no provision for water for the development.	Very high negative	Not possible	Very high negative	N/A

List any specialist reports that were used to fill in the above tables. Such reports are to be attached in the appropriate Appendix.

- Heritage Impact Assessment
- Wetland Study
- Biodiversity Assessment report.

Describe any gaps in knowledge or assumptions made in the assessment of the environment and the impacts associated with the proposed development.

Not Applicable



### 3. IMPACTS THAT MAY RESULT FROM THE DECOMMISSIONING AND CLOSURE PHASE

Briefly describe and compare the potential impacts (as appropriate), significance rating of impacts, proposed mitigation and significance rating of impacts after mitigation that are likely to occur as a result of the decommissioning and closure phase for the various alternatives of the proposed development. This must include an assessment of the significance of all impacts.

**Proposal and all alternatives**

Potential impacts:	Significance rating of impacts(positive or negative):	Proposed mitigation:	Significance rating of impacts after mitigation:	Risk of the impact and mitigation not being implemented
The pipelines will remain in the ground	Low	N/A	Low	N/A

List any specialist reports that were used to fill in the above tables. Such reports are to be attached in the appropriate Appendix.

Ecological / Biodiversity, and Wetland and Heritage Impact Assessment Report

Where applicable indicate the detailed financial provisions for rehabilitation, closure and ongoing post decommissioning management for the negative environmental impacts.

Rehabilitation of the area after construction work is part of the project activity.

### 4. CUMULATIVE IMPACTS

Describe potential impacts that, on their own may not be significant, but is significant when added to the impact of other activities or existing impacts in the environment. Substantiate response:

The activity in itself is relatively benign and no significant cumulative impacts except for the potential loss of portions of stream crossing where horizontal drilling will apply without excavating the ground. Together with the impacts of the rest of the Grootvlei Sewer Pump Station Development, the activity will change the character and sense of place of the area in which it occurs. The impact on the natural environment will however be limited provided that all the services function according to its design specifications.

### 5. ENVIRONMENTAL IMPACT STATEMENT

Taking the assessment of potential impacts into account, please provide an environmental impact statement that sums up the impact that the proposal and its alternatives may have on the environment after the management and mitigation of impacts have been taken into account with specific reference to types of impact, duration of impacts, likelihood of potential impacts actually occurring and the significance of impacts.

**Proposal**

If the mitigation measures and the EMP is implemented the impacts of the proposed activity will by far outweigh the positive impact it will have on contributing to the development of the Grootvlei Sewer Pump Station.

**Alternative 1**

No Proposal

**Alternative 2**

No Proposal

**Alternative 3 No Proposal**

**No-go (compulsory)**

The construction of the Grootvlei Sewer Pump Station will not be able to proceed as there will be no provision for water for the development. It will jeopardies up to 1100 households everyday living environment due to the problems from exiting sewer pump system if is not attended. Wetland area must also marked as no go area during construction and it must be therefore barricaded. Heritage Specialist also mention that if any heritage resources found work must be stopped on that portion and be informed.

### 6. IMPACT SUMMARY OF THE PROPOSAL OR PREFERRED ALTERNATIVE

For proposal:

The impact of the activity will be limited to impacts on historical tree lanes which cannot be avoided but can be mitigated to a significant extent by implementing the recommended mitigation measures and the EMP. Impacts will also be limited only on the portion of stream crossing where the pipe line will be horizontal drilled without excavating and destruction of vegetation.

For alternative:

Not Alternative option was proposed

Having assessed the significance of impacts of the proposal and alternative(s), please provide an overall summary and reasons for selecting the proposal or preferred alternative.

It is a linear service activity that has to be incorporated into the limited available municipal servitudes. The proposed activity (proposed to be implemented) represent the only feasible alignments to achieve the objective. The position of the proposed sewer pump station (not assessed as it is not a listed activity and are not triggered by Listing Notice 3) is located on the most efficient positioning in respect to the requirement for gravitational sewer outfall.

## 7. SPATIAL DEVELOPMENT TOOLS

Indicate the application of any spatial development tool protocols on the proposed development and the outcome thereof.

The following were used:

- Gauteng Provincial Environmental management Framework
- GAPA IV
- C-Plan 3.3
- Regional RSDf
- Gauteng SDF
- Department of Water Affairs and Sanitation information
- Various maps and aerial photographs dating from the 1930's up to now.

## 8. RECOMMENDATION OF THE PRACTITIONER

Is the information contained in this report and the documentation attached hereto sufficient to make a decision in respect of the activity applied for (in the view of the Environmental Assessment Practitioner as bound by professional ethical standards and the code of conduct of EAPASA).

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

If “NO”, indicate the aspects that require further assessment before a decision can be made (list the aspects that require further assessment):


If “YES”, please list any recommended conditions, including mitigation measures that should be considered for inclusion in any authorisation that may be granted by the competent authority in respect of the application:

The mitigation measures as indicated in the environmental impact assessment tables and the EMP should be considered for inclusion in the authorisation.

**9. THE NEEDS AND DESIREBILITY OF THE PROPOSED DEVELOPMENT** (as per notice 792 of 2012, or the updated version of this guideline)

The proposed Grootvlei sewer pump station and the upgrading of sewer rising main are required for the development of the community at Strubenvale since they have indicated that they have been suffered for so long , with the aim of providing better service this will be well as addressing challenges that have existed in the past and continue today. The proposed sewer pump station seeks specifically to address apartheid spatial planning legacies and establish key, replicable levers to unlock the future of human settlements in South Africa.

The proposed Grootvlei sewer pump station enable the provision of sanitation service which will include the following (amongst others):

- 1100 Strubenvale households community will no longer suffered by the sewage system after proposed project being implemented,
- There will be no longer a sewage flowing into the wetland since the proposed area is moved away from the wetland,
- This will also reduce cost from municipality during maintenance
- Will also offer a job opportunities to some of the local community members.
- Community members will no longer be responsible of buying pumping generators to control overflow sewer manhole within their yard

Street will now be free from sewage wastes after construction completion.

**10. THE PERIOD FOR WHICH THE ENVIRONMENTAL AUTHORISATION IS REQUIRED**  
(CONSIDER WHEN THE ACITIVITY IS EXPECTED TO BE CONCLUDED)

10 years.

**11. ENVIRONMENTAL MANAGEMENT PROGRAMME (EMPr)** (must include post construction monitoring requirements and when these will be concluded.)

If the EAP answers “Yes” to Point 7 above then an EMP is to be attached to this report as an Appendix

EMPr attached  YES

## SECTION F: APPENDIXES

The following appendixes must be attached as appropriate (this list is inclusive, but not exhaustive):

It is required that if more than one item is enclosed that a table of contents is included in the appendix

Appendix A: Site plan(s) – *(must include a scaled layout plan of the proposed activities overlain on the site sensitivities indicating areas to be avoided including buffers)*

Appendix B: Photographs

Appendix C: Facility illustration(s)

Appendix D: Route position information

Appendix E: Public participation information

Appendix F: Water use license(s) authorisation, SAHRA information, service letters from municipalities, water supply information

Appendix G: Specialist reports

Appendix H: EMPr

Appendix I: Other information

## CHECKLIST

To ensure that all information that the Department needs to be able to process this application, please check that:

- Where requested, supporting documentation has been attached;
- All relevant sections of the form have been completed.

<b>Appendix 1/A:</b>	<b>Site Plan,</b>
<b>Appendix 1/A:</b>	<b>Site Locality Map</b>
	<b>Wetland Triggered Map,</b>
	<b>Sensitive Bioregional Map,</b>
	<b>Springs Regional Map</b>
	<b>Hydro Ecological Map,</b>
	<b>Agricultural Map,</b>
	<b>Social Facility Area Map</b>
	<b>Land Use Map</b>
	<b>Geographical map</b>
<b>Appendix 2/B:</b>	<b>Site Photos</b>
<b>Appendix 3/C:</b>	<b>Facility Illustrations</b>
<b>Appendix 4/D:</b>	<b>Site Route Position Information</b>
<b>Appendix 5/E:</b>	<b>Public Participation Information</b>
<b>Appendix 6/F:</b>	<b>Water Use License Authorization</b>
<b>Appendix 6/F:</b>	<b>Water Supply Information</b>
<b>Appendix 6/F:</b>	<b>Service Letter from Municipality</b>
<b>Appendix 7/G:</b>	<b>Specialist Report</b>
<b>Appendix 7/G:</b>	<b>Wetland Impact Assessment</b>
<b>Appendix 7/G:</b>	<b>Biodiversity Impact Assessment</b>
<b>Appendix 7/G:</b>	<b>SAHRA-Heritage Impact Assessment (HIA)</b>
<b>Appendix 8/H:</b>	<b>Environmental Management Programme</b>
<b>Appendix 9/I:</b>	<b>Other Information</b>