

31 July 2018

Dear Ms Tebogo Molokomme,

**CITY OF EKURHULENI
SERENGETI PUMP STATION TO THE HARTBEEFONTEIN/ERWAT WASTE WATER
TREATMENT PLANT GAUT002/18-19/E0054.**

This advertisement gives notice to potential Interested and Affected Parties (I&APs) with regards to information in respect of the basic assessment application for the proposed upgrading of the existing Serengeti Pump station as well as the proposed installation of a new sewer HDPE rising main pipeline of approximately 1700 m and a diameter of 630mm, from the Serengeti Pump Station to the ERWAT connection. With the opportunity for I&APs to comment on the draft Basic Assessment Report (BAR) & draft Environmental Management Programme Report (EMPr).

BACKGROUND TO THE PROJECT

The scope of works for the proposed development is as per the Detailed Design Report (2546/02) dated May 2018, by VIP Consulting engineers.

The Serengeti pump station upgrade has 5 phases, this allowed for minor upgrades to be made as the demands increased with an increase in development. The following work was completed in terms of the Serengeti Pump station upgrade for Phase 1 and Phase 2:

- A 355 mm diameter rising main was constructed and the inlet works, mechanical and electrical equipment for phase 1 has been installed.
- The substructure and superstructure of the pump station for Phase 1 and Phase 2 has been constructed.
- Phase 1 was designed to accommodate the sewer effluent from the Serengeti Gold Estate.

The following activities form part of the proposed project:

- Inlet Works- The inlet work will be for Phase 2-5 as the upgrade of the Serengeti pump station has 5 phases, of which phase 1 has been completed as mentioned above. The new inlet work will consist of screens and sand traps to prevent undue and oversized matter and rubble from flowing into the wet sump and subsequently into the pumps. It is proposed that the proposed screens be operated by hand rakes.
- Sumps: The sump for Phase 2 has been constructed however the existing sumps will be upgraded.

- Rising Main: A high-density polyethylene (HDPE) rising main with a diameter of approximately 630 mm is proposed along the same route as the existing 355 mm rising main. The rising main will be approximately 1.7km in length. The maximum velocity in the rising main at peak flow will be 2.4m/s.
- Pump Selection: As part of phase 2, provision were made for three pumps in parallel. The insitu pipework in the pump station as well as the plinths have already been constructed as part of phase 1. Two pumps will be installed during the initial lower flow and once the flow increases to over 828 m³/h per pump of 1782 m³/h a third pump will be installed and commissioned. The two pumps will work in parallel with the third pump as backup during failure or maintenance of either of the two pumps.

The proposed activities associated with the upgrading of the Serengeti pump station and the construction of the rising main is as follows: The construction of an inlet channel with screens and sand traps, the installation of all the pumps and necessary steel pipes and bends within the Serengeti pump station. As well as the construction of approximately 1700 m of a HDPE rising main pipeline with all the required air vents and bends.

The rising main will connect to the existing Hartebeesfontein Outfall Sewer, approximately 1.1km northwest of the Serengeti pump station. The proposed upgrade of the Serengeti pump station and the proposed construction of the rising main will serve various developments on the farm Witfontein 15-IR.

LEGISLATIVE REQUIREMENTS

This process is in line with the National Environmental Management Act, 1998 (Act No.107 of 1998) (NEMA) for the authorisation of listed activities contained in GN R 983 (listing notice 1) and GN R 985 (listing notice 3) of 4 December 2014, published in terms of Sections 24(2), 24 (5), 24D, 44 and 47(A) (1)(b) of the NEMA.

Application submitted to competent authority

Application submitted to competent authority the application was submitted to the Gauteng Department of Agriculture and Rural Development (GDARD) on the **4th June 2018**. Reference number was obtained on the **11 June 2018**. The reference number of the project is **GAUT002/18-19/E0054**.

The purpose of this application is to apply for environmental authorisation for the design and construction of the Serengeti to ERWAT sewer pipeline and associated upgrading of the existing Serengeti Pump station. The listed activities which have been applied for include:

Indicate the number of the relevant Government Notice:	Activity No (s) (relevant notice): e.g. Listing notices 1, 2 or 3	Describe each listed activity as per the wording in the listing notices:
GN. R 983, 8 December 2014, as amended	Listing notice 1 number 10	<p>The development and related operation of infrastructure exceeding 1 000 metres in length for the bulk transportation of sewage, effluent, process water, waste water, return water, industrial discharge or slimes –</p> <p>(i) with an internal diameter of 0,36 metres or more; or</p> <p>(ii) with a peak throughput of 120 litres per second or more;</p> <p><u>The construction of a high-density(HDPE) rising main with a diameter of approximately 630 mm is proposed along the same route as the existing 355 mm rising main. The rising main will be approximately 1.7km in length. The maximum velocity in the rising main at peak flow will be 2.4m/s.</u></p>
GN. R 983, 8 December 2014, as amended	Listing notice 1 number 12 (ii) (a)	<p>The development of—</p> <p>(ii) infrastructure or structures with a physical footprint of 100 square metres or more; where such development occurs—</p> <p>(a) within a watercourse;</p> <p><u>The proposed project will involve the upgrading of the Serengeti pump station by more than 100 square meters. The Serengeti pump station is located within a floodplain wetland.</u></p>
GN R 985, 8 December 2014, as amended	Listing notice 3 number 12 c (ii)	<p>The clearance of an area of 300 square metres or more of indigenous vegetation except where such clearance of indigenous vegetation is required for maintenance purposes undertaken in accordance with a maintenance management plan.</p> <p>c. Gauteng</p> <p>ii. Within Critical Biodiversity Areas or Ecological Support Areas identified in the Gauteng Conservation Plan or bioregional plans; or</p> <p><u>The proposed project activities will involve the clearance of an area of 300 square metres or more of indigenous vegetation for the contractor's camp, within sites identified as Ecological Support Areas (ESAs) in the Gauteng Conservation Plan or in bioregional plans.</u></p>
GN R 985, 8 December 2014, as amended	Listing notice 3 number 14 (ii) (a)	<p>The development of—</p> <p>(ii) infrastructure or structures with a physical footprint of 10 square metres or more; where such development occurs—</p> <p>(a) within a watercourse;</p>

		<u>The proposed project will involve the development of structures with physical footprint of 10 square meters or more within a watercourse. The upgrading activities at the Serengeti Pump station will occur within a watercourse as the Serengeti Pump station is located within a Floodplain Wetland.</u>
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Legislation associated with the application

South African legislation requires that a Basic Assessment Report (BAR) and an Environmental Management Programme Report (EMP) be compiled in accordance with Regulation 19 of Chapter 4 of GN R 982. In order to do so Shangoni Management Services (Pty) Ltd (Shangoni) has been appointed as the independent Environmental Assessment Practitioner (EAP) in terms of Regulation 12 of GN R 982, in order to undertake and manage the processes to apply for the required environmental authorisations. Furthermore, Shangoni meets the requirements of an EAP contemplated in Regulation 13 of GN R 982.

PUBLIC PARTICIPATION

People have a right to be informed about potential decisions that may affect them and to be afforded an opportunity to influence those decisions. This advertisement forms part of a Public Participation Process as part of the Basic Assessment (BA). It describes the various components of the project to enable I&APs to get a better understanding of the potential environmental and social impacts that could be expected from the proposed design the construction of the Serengeti to ERWAT sewer pipeline and associated upgrading of the Serengeti Pump station. It also outlines the BA process and the opportunities for the public to become involved during the course of the study.

Register as an Interested and Affected Party (I&AP)

You may register as an I&AP. To register as an I&AP of this project, or to obtain more information or submit comments, please request a Registration Form from Shangoni and return it together with any comments to Shangoni by no later than **31st of August 2018** at the details provided below.

Availability of the draft BAR and EMP

The draft BAR and EMP are available to the public for review for a period of thirty (30) days, from **31st of July 2018 to the 31st of August 2018**. A register and comment sheet will accompany the copies. Please complete the register subsequent to reviewing the report. Alternatively, e-mail or fax your comments to Shangoni (details provided below) by no later than **31st of August 2018**. An electronic copy of the BAR, EMP and comment sheet will be posted on the Shangoni's website (www.shangoni.co.za) Public documents – Serengeti to ERWAT for public comment for the same period of (30) thirty days.

Kind regards,

A handwritten signature in black ink, appearing to read 'M. Govender', enclosed within a circular scribble.

Marilyn Govender
Environmental Consultant
Shangoni Management Services

REGISTRATION FORM

Please complete this form and return it to Shangoni Management Services (Pty) Ltd to ensure that you are registered as an Interested and Affected Party (I&AP).

By answering the questions below, you will help us to develop a better understanding of your information requirements. The form also gives you the opportunity to make comments regarding the project. Additional pages may be attached should this be required.

I&AP Details:

Full name and surname: _____

Contact details: Tel (w): _____ Tel (h): _____
Fax: _____ Cell: _____
e-mail: _____

Physical address: _____

Postal address: _____

Preferred method of communication: fax e-mail post

Preferred telephone number: cell home work

Organisation/Representative: _____

Farm name, number and subdivision or Street Address (if applicable): _____

Questions

- 1) Where did you get information about the proposed project?
 Newspaper advertisement notice board flyer other (please specify)

- 2) Do you represent a company/organisation or is your interest on behalf of yourself?

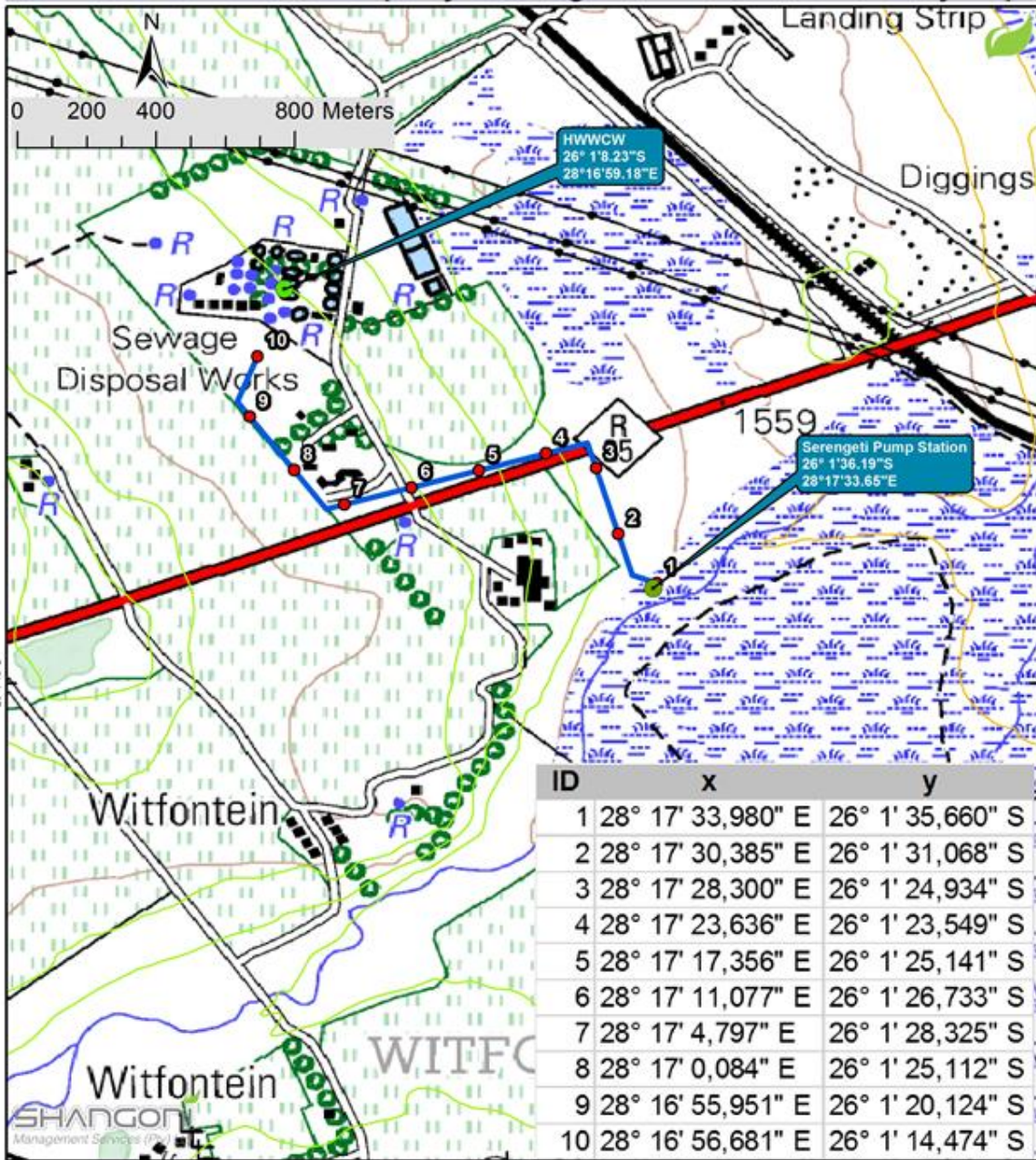
- 3) Do you know of anyone that is affected by the proposed activity who was not informed of the project? (Please provide contact details)

- 4) Do you have any specific concerns or comments regarding the proposed project?

YES	NO
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If yes, please indicate what the comments are?

Ekurhuleni Local Municipality - Serengeti PS to HWWCW Locality Map



ID	x	y
1	28° 17' 33,980" E	26° 1' 35,660" S
2	28° 17' 30,385" E	26° 1' 31,068" S
3	28° 17' 28,300" E	26° 1' 24,934" S
4	28° 17' 23,636" E	26° 1' 23,549" S
5	28° 17' 17,356" E	26° 1' 25,141" S
6	28° 17' 11,077" E	26° 1' 26,733" S
7	28° 17' 4,797" E	26° 1' 28,325" S
8	28° 17' 0,084" E	26° 1' 25,112" S
9	28° 16' 55,951" E	26° 1' 20,124" S
10	28° 16' 56,681" E	26° 1' 14,474" S



Legend

- Station name
- Hartbeesfontein Waste Water Care Works
- Serengeti Pump Station
- Coordinate points
- Pipeline

Altitude (in m)

- 1470,000000 - 1515,000000
- 1515,000001 - 1555,000000
- 1555,000001 - 1595,000000
- 1595,000001 - 1635,000000
- 1635,000001 - 1690,000000

