

**BASIC ENVIRONMENTAL IMPACT ASSESSMENT**  
**FOR THE**  
**PROPOSED FILLING STATION ON STAND 365, WATERVAL EAST**  
**EXTENSION 38, RUSTENBURG, NORTH WEST PROVINCE**

**REF: NWP/EIA/88/2012**

**BACKGROUND INFORMATION DOCUMENT**

Prepared by



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## LIST OF ABBREVIATIONS

BA	Basic Assessment
BAR	Basic Assessment Report
CBD	Central Business District
DPWRT	Department of Public Works, Roads & Transport
EAP	Environmental Assessment Practitioner
EIA	Environmental Impact Assessment
EMF	Environmental Management Framework
EMP	Environmental Management Programme
GNR	Government Notice Regulation
GPS	Global Positioning System
I&AP	Interested and Affected Party
MPRDA	Mineral and Petroleum Resources Development Act, 2002 (Act 22 of 2002)
NEMA	National Environmental Management Act, 1998 (Act 107 of 1998)
NW DEDECT	North West Department of Economic Development, Environment, Conservation and Tourism
PPP	Public Participation Process
RLM	Rustenburg Local Municipality
SDF	Spatial Development Framework
SEA	Strategic Environmental Assessment
SAHRA	South African National Heritage Resources Act, 1999 (Act 25 of 1999)

## 1. INTRODUCTION

HydroScience CC, an independent Environmental Assessment Practitioner (EAP), has been appointed by Central Bridge Trading 435 CC to undertake a Basic Assessment (BA) process and submit a Basic Assessment Report (BAR) to apply for environmental authorisation for the proposed filling station on Stand 365, Waterval East Extension 38, Rustenburg, North West Province.

As part of the Environmental Impact Assessment (EIA) BA process (Figure 1), an application, in terms of the National Environmental Management Act (NEMA), 1998 (Act 107 of 1998), as amended, and associated regulations, 2010, has been submitted to the North West Department of Economic Development, Environment, Conservation and Tourism (NW DEDECT).

## 2. PURPOSE OF THIS DOCUMENT

The purpose of this document is to provide background information (in addition to the notices on the site and published in the newspaper) in terms of Government Notice Regulation (GNR) 543 (Sections 54 through 57) of NEMA to all Interested and Affected Parties (I&APs) regarding the intention of the proposed project as described above.

In addition, this document will provide a platform from which to obtain comments and contributions from stakeholders with regard to the potential environmental impacts of the proposed project as part of the Public Participation Process (PPP). The aim of the PPP is not only to adhere to the required legislation, but also to give as many stakeholders and I&APs as possible an opportunity to be actively involved in this process.

The PPP will be carried out in accordance with Chapter 6 of NEMA as amended and in support of the Environmental Impact Assessment Regulations, 2010 and associated guidelines.

## 3. ROLE OF I&APs

You are invited to register as an I&AP (see contact details and registration form attached) and to assist us in:

- Identifying issues of concern that need to be investigated as well as possible impacts of the proposed project on the environment;
- Suggesting alternatives to mitigate possible negative impacts and enhance positive impacts.

Your input is considered valuable as it contributes to:

- The decision-making process;
- Information on public needs, values and expectations; and
- Local and traditional knowledge.

The following authorities will also be notified and requested to provide comments:

- The Department of Mineral Resources in terms of the Mineral and Petroleum Resources Development Act (MPRDA), 2002 (Act 28 of 2002);
- The South African Heritage Resources Agency in terms of the South African National Heritage Resources Act (SAHRA), 1999 (Act 25 of 1999);
- The Rustenburg Local Municipality (RLM) who is the local authority under whose jurisdiction it falls and who needs to ensure that the development fits in with their Spatial Development Framework (SDF), Strategic Environmental Assessment (SEA) and Environmental Management Framework (EMF). RLM provides services to the property.

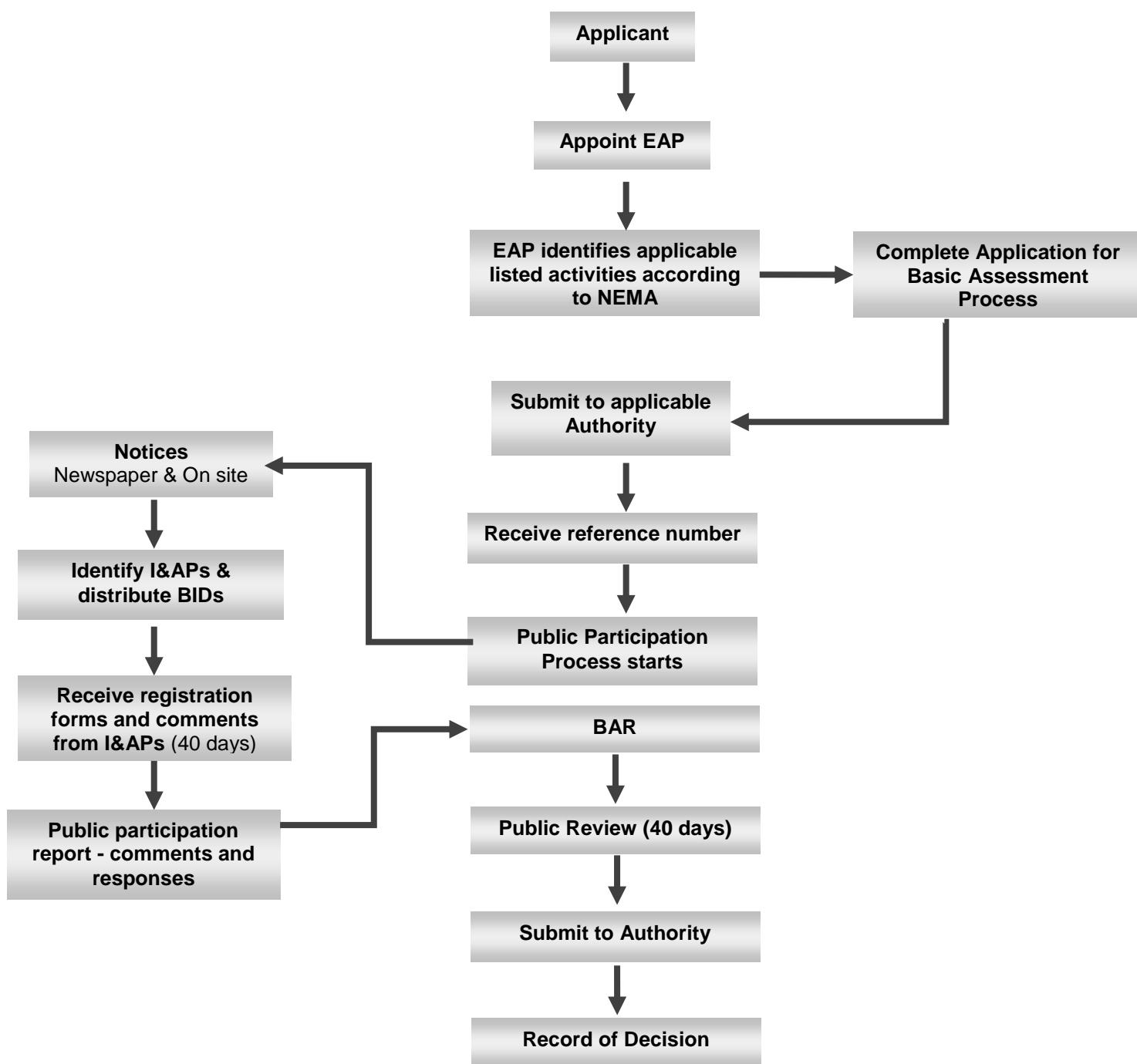


Figure 1: Simplified diagram presenting the Basic Assessment process

## **4. PROPOSED PROJECT**

### **4.1. Project motivation**

According to the Rustenburg SDF, 2002, continuation of current growth rates implies that Rustenburg will by far be the largest city in the North West Province by 2015. According to the latest draft SDF (2010), the growth rate in the period 2001 - 2007 (6 years) was approximately 4.3% per annum. The latest population figures indicate that the population increased from 395 000 (2001) to 450 000 (2007).

The SDF (2002) lists Rustenburg as a top priority investment area due to both high economic potential and high socio-economic need. This implies that any investment in the Rustenburg area is likely to result in a good return, both socially and economically. A filling station will be an economic investment as the need for fuel increase with the population increase and associated daily commute of the community/residents. It is however, also noted that a number of filling stations already exist within a 5km radius of this proposed position.

Furthermore, Rustenburg is listed as one of three “high growth” municipalities. It is however, also considered a water scarce area and expensive water is currently imported to the area.

### **4.2. Project objective**

The main objective of the project is to establish a filling station to improve public services, accessibility and convenience for this area. The Waterval East area has become a densely populated area (residential/townhouse developments) over the last few years.

### **4.3. Project locality**

The proposed project area for the filling station is located on Stand 365, Waterval East Extension 38, Rustenburg, North West Province. The said portion of land is located approximately 3 km south-east from the Rustenburg Central Business District (CBD), on the southern side of the R104/R27 road between Rustenburg and Kroondal. Global Positioning System (GPS) coordinates are 25° 41' 18.71" South and 27° 15' 45.85" East (please refer to the locality map – Figure 2). The already developed property is bordered by existing residential units, commercial developments/businesses and industrial works (Figure 3).

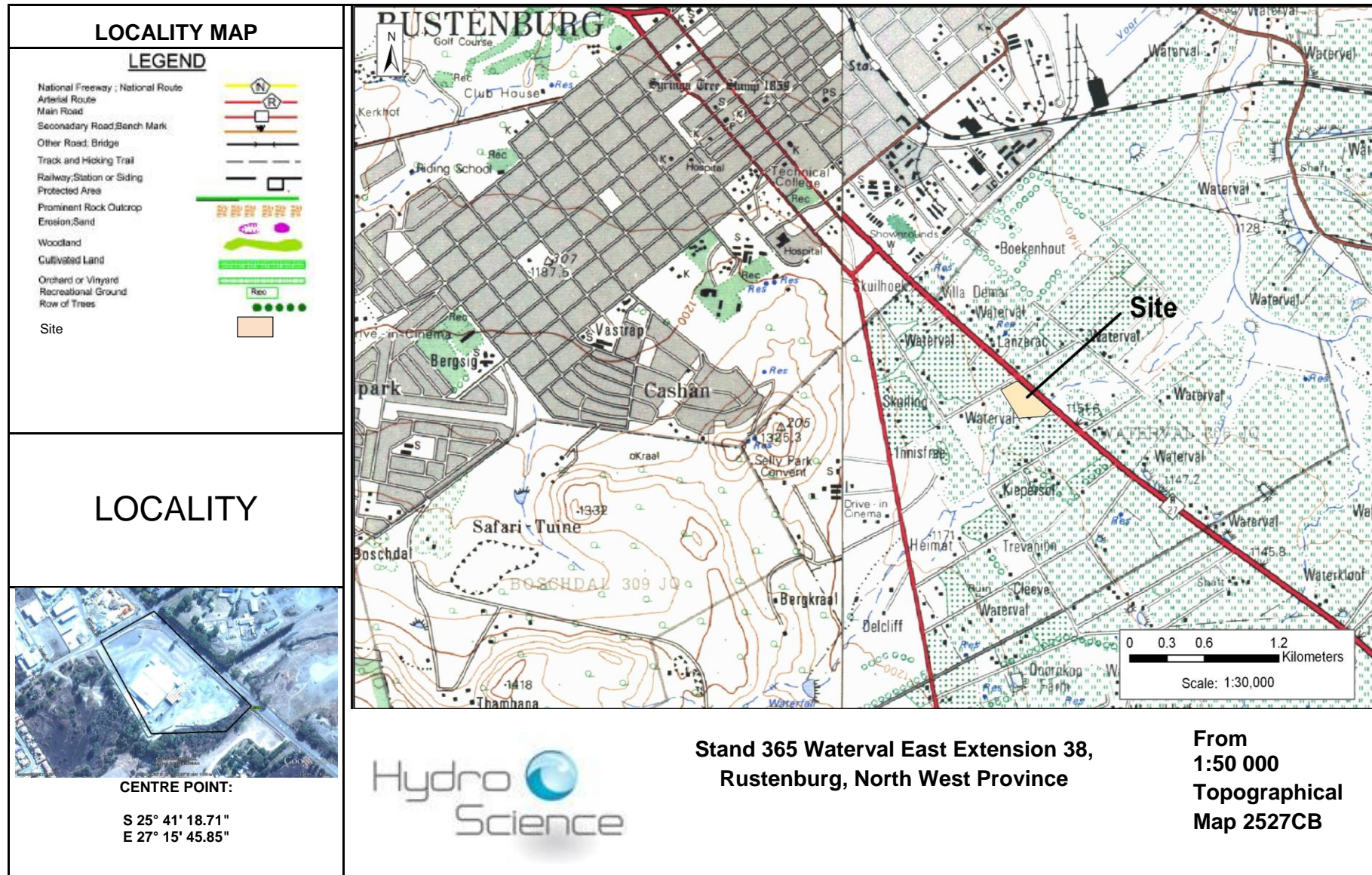


Figure 2: Regional locality map for Stand 365, Waterval East Extension 38, Rustenburg



Figure 3: Google™ image of Stand 365, Waterval East Extension 38 and surrounding land use

#### 4.4. Project description

The property is developed and has existing infrastructure including a Midas Hardware Store and parking areas. No natural vegetation occurs on site. The following main activities will take place:

- Bulk services (sewage, electricity and water supply) will be extended from the developed areas on the project site to the filling station;
- A filling station will be developed and include:
  - Underground storage tanks for fuel (petrol and diesel). Four (4) 46m<sup>3</sup> tanks will be established underground for the storage of 50ppm diesel, 500 ppm diesel, ULP 93 & ULP 95.

The road infrastructure and access are in place.

#### 4.5. Project schedule

The projected leading time on completion is eighteen (18) months once environmental authorisation has been obtained. The environmental authorisation process will take approximately six (6) months.

#### 4.6. Additional Work

The following additional work will be completed as part of the project:

- A geohydrological assessment to determine the depth of the water table, determine existing groundwater quality and users, establish a monitoring borehole and establish the potential risk of groundwater contamination due to the underground storage of a hazardous chemical.
- An application in terms of the Township Ordinance will be submitted by the Town Planner in terms of Town Planning requirements.
- The existing service agreement with the RLM may require amendment to incorporate the filling station.
- An application will be lodged with Department of Mineral Resources in terms of the MPRDA.

If preliminary investigations indicate that specific specialist studies are required, these will be pursued.

### 5. POTENTIAL IMPACTS

Preliminary predictions of possible impacts that may occur and need to be managed as part of the Environmental Management Programme (EMP) include:

- Dust generation due to earth works, excavation and construction (construction vehicle movement etc);
- Noise generation during the construction phase (workers, vehicles, machinery, equipment);
- Improper waste and wastewater management during the construction phase;
- Increased traffic flows during the construction and operational phases of the project;
- Fire/explosion hazards during operational phase; and
- Possible spillage and leakage of fuel (petrol/diesel).



## 6. APPLICABLE LEGISLATION

An application for environmental authorisation, in terms of the NEMA, as amended, has been submitted to the NW DEDECT (Reference number NWP/EIA/88/2012).

Notification, in the form of site notices and an advertisement placed in the Rustenburg Herald (18 January 2013) as well as BIDs, was given to all I&APs, as prescribed in Chapter 6 of NEMA, informing them that a BA process will be followed and a BAR will be submitted to the relevant authorities to obtain environmental authorisation for the proposed development as set out in Section 4 of this document.

The following listed activity which requires environmental authorisation was identified in terms of the relevant legislation:

**NEMA:** GNR 544 (18 June 2010):

**13 – The construction of facilities or infrastructure for the storage, or for the storage and handling, of a dangerous good, where such storage occurs in containers with a combined capacity of 80 but not exceeding 500 cubic metres. The applicant intends to establish a filling station on the site. The filling station will require underground storage tanks for petrol and diesel. 45 kl tanks will be established for each of the following:**

- **diesel 50ppm**
- **diesel 500ppm**
- **ULP 93**
- **ULP 95**

## 7. PROCESS AND WAY FORWARD

- An application for environmental authorisation has been submitted to NW DEDECT. The reference number: NWP/EIA/88/2012 has been assigned and the application will be handled by Mr Robert Nemanashi in the NW DEDECT Rustenburg offices at 80 Kerk Street, reachable on 014 597 3597.
- Notices have been placed in the Rustenburg Herald (18 January 2013) and on the site (17 January 2013).
- Further notification and BIDs are to be delivered by hand, fax or email to other identified I&APs, including neighbours, authorities and other stakeholders on 17-18 January 2013.
- Comments and/or completed registration forms from I&APs should be received on or before 28 February 2013.
- A draft BAR will become available for public review during March 2013.
- A final BAR, incorporating comments received on the draft, will be submitted to the NW DEDECT for their review and a decision no later than May 2013.

## 8. CONTACT DETAILS

Please complete the attached form or contact the person below should you wish to be registered as an I&AP or make any comments regarding this project.

### **HydroScience cc**

Person: Paulette Jacobs  
Tel: 082 850 5482  
Fax: 086 692 8820  
E-mail: paulette@hydroscience.co.za  
Postal address: P.O. Box 1322, Ruimsig, 1732

**COMPLETE & FAX OR E-MAIL TO:  
HYDROSCIENCE 086 692 8820 / paulette@hydroscience.co.za**

<b>ENVIRONMENTAL IMPACT ASSESSMENT – BASIC ASSESSMENT FOR THE PROPOSED FILLING STATION ON STAND 365, WATERVAL EAST EXTENSION 38, RUSTENBURG, NORTH WEST PROVINCE. REFERENCE: NWP/EIA/88/2012</b>
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**INTERESTED AND AFFECTED PARTY REGISTRATION AND COMMENT SHEET**

<b>Title:</b>	Mr		Mrs		Ms		Dr	
<b>Surname:</b>				<b>First name &amp; initials:</b>				
<b>Organisation / Company:</b>								
<b>Postal / physical address:</b>				<b>Postal code:</b>				
<b>Tel:</b>				<b>Fax:</b>				
<b>Email:</b>				<b>Cell:</b>				
<b>Interest in approval or refusal:</b>	<b>Business:</b>	YES	NO	<b>Preferred method of notification / communication</b>	<b>Post/mail:</b>			
	<b>Financial:</b>	YES	NO		<b>Fax:</b>			
	<b>Personal:</b>	YES	NO		<b>Email:</b>			
<b>Details of interest:</b>								
<b>Name of other I&amp;AP to be contacted:</b>								
<b>Contact details:</b>								

**Comments: (please use separate sheets if you wish/require)**

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**Thank you for your comments, participation and time. Your contribution is appreciated and will form part of the final submission to the authority for decision-making.**