

FINAL

BASIC ASSESSMENT REPORT

**TRANSNET SOC LTD PROPOSED BOSHOEK RAILWAY
LOOP, NORTH WEST PROVINCE**

DEA REF: 14/12/16/3/3/1/1921

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Coastal & Environmental Services

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SECTION A: ACTIVITY INFORMATION

1. PROJECT DESCRIPTION

Introduction

Transnet SOC Ltd (Transnet) has proposed the construction of a new loop along the railway line between Boshhoek and Rustenburg, on a portion of the farm Boschhoek 103JQ in the Bojanala Platinum District Municipality, North West Province. EOH Coastal & Environmental Services (EOH CES) have been appointed to undertake the Basic Assessment process in terms of the National Environmental Management (NEMA 107 of 1998), Environmental Impact Assessment (EIA) Regulations (2014, as amended in 2017), for the proposed development.

Project Background

Transnet has commissioned the Waterberg rail corridor expansion programme following several requests from industry to increase the long-term rail network capacity from the Waterberg coal fields (Limpopo Province) to the Richards Bay Coal Terminal (Kwa-Zulu Natal Province) and the Port of Maputo (Mozambique). This entails the upgrade of the existing railway system including Lephalale to Thabazimbi, Rustenburg and Pyramid South which then joins the line extending to Ermelo and Richards Bay (Figure 1.1).

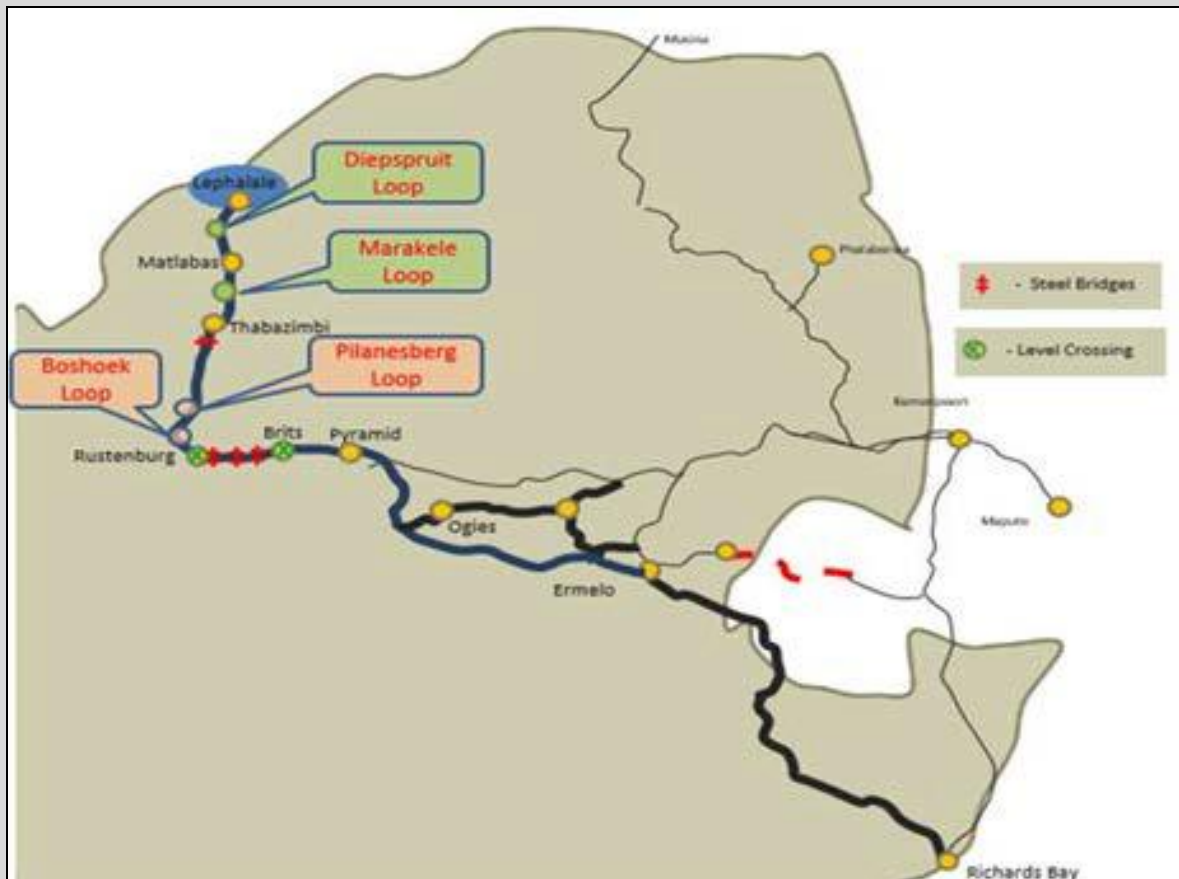


Figure 1.1: Transnet railway network between Waterberg coal fields and the Richards Bay Coal Terminal.

The Waterberg railway line is a key corridor for the transportation coal as well as various other export commodities, including chrome, ferrochrome, cement, lime, granite, iron ore,

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containers and general freight. It also serves several inland domestic markets and is thus currently fully utilized with an increase in demand expected over the next ten to twenty years. Transnet determined that 200-wagon trains need to be able to operate along the Waterberg line in order for the demand to be met. This was concluded through several feasibility studies which included a series of train capacity simulations resulting in the requirement of a five-stage upgrade to the line.

The 240km section of the Waterberg line between Thabazimbi and Pyramid South has been identified as a major bottleneck as it currently does not allow for the passing of 100-wagon trains, let alone 200-wagon trains. Stage 3 of the proposed Waterberg line upgrade includes the implementation of two railway loops (passing lanes) to be constructed at the following locations along this section of the line:

- Boshhoek (between Km 132.82 and 135.78)
- Pilanesberg (between Km 159.55 and 160.95)

Project Location

The activity falls within the jurisdiction of the Rustenburg Local Municipality, situated within the Bojanala Platinum District Municipality, North West Province. The project site can be accessed via the N4 from Pretoria to Rustenburg and then via the R565 from Rustenburg to Boshhoek (Figure 1.2).



Figure 1.2: Location of the proposed Boshhoek Railway Line project.

Project Description and Scope

The construction work includes 1.67km of track work parallel along the northern side of the existing rail as well as moving the existing gravel service road to accommodate the new track. This will allow two trains to safely pass each other along the railway line (Figure 1.3).

Construction of the new loop will be undertaken within the Transnet servitude however, Transnet will acquire land (via a lease agreement) for the purpose of stockpiling and site camp areas. The loop will be constructed in line with Transnet's S410 Specification (March, 2006) which covers railway earthworks and service roads. The new loop traverses through fairly flat terrain from Km 132.82 to Km 134.80 and passes through an embankment approaching the Matlopyane river bridge at Km 134.97.

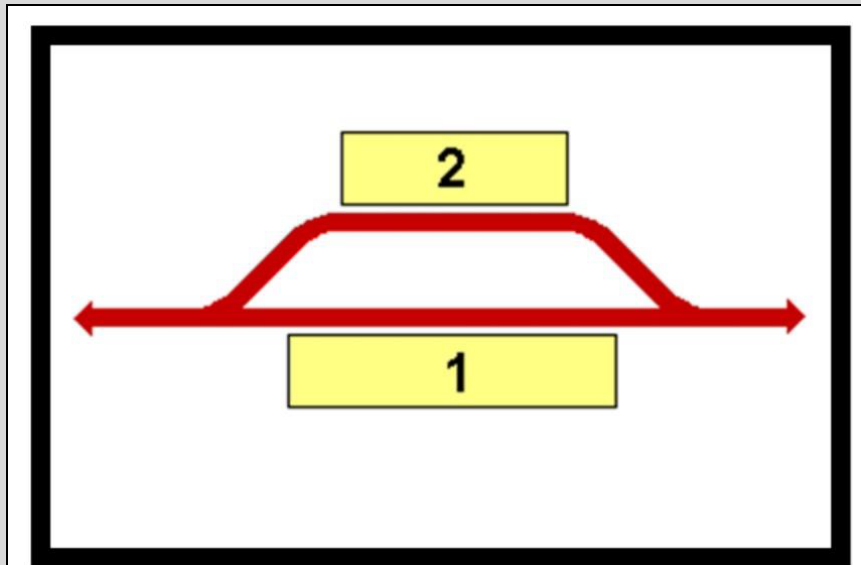


Figure 1.3: Diagram illustrating a railway loop (Aerial view; courtesy of Transnet).

The following items will form part of the construction works (Figure 1.4):

1. Perways (bridges and platforms):
 - 1,671 km of track comprising 60kg UIC60 rails on PY sleepers;
 - 1:20 RH tangential point set at Km 132.82;
 - 1:20 LH tangential point set at Km 135.78.
2. Signalling:

Install a localised remote control system to enable the Train Driver to remotely operate the 1:20 tangential point sets on both sides of the loop. The system makes use of a radio control system for operation.
3. Structures

There are five (5) box culverts (Table 1.1) which will be extended in order to accommodate the new loop. The culvert openings will be kept unchanged and the length of the culverts will be extended to the specification of the new loop line.
4. Bridge

The river bridge will be constructed at approximately Km 135.130. The size and shape of the bridge will be similar to the existing one on the main line.



Figure 1.4: An example of a railway perway (left) and typical railway signalling (right).

Table 1.1. Box culvert description and location.

Description	Km	DMS Coordinates
Culvert 1: 1.80 m x 4.90 m box culvert	133.10	Lat: -25°, 30', 37.3942"; Long: 27°, 07', 06.0789"
Culvert 2: 1.90 m x 4.90m box culvert	133.96	Lat: -25°, 30', 16.0228"; Long: 27°, 06', 46.2882"
Culvert 3: 1.90 m x 4.90m box culvert	134.41	Lat: -25°, 30', 05.4372"; Long: 27°, 06', 35.4205"
Culvert 4: 0.50m pipe culvert	134.82	Lat: -25°, 29', 58.0180"; Long: 27°, 06', 23.0570"
Culvert 5: 2.4/5m x 6.70m arched culvert	135.13	Lat: -25°, 29', 52.3852"; Long: 27°, 06', 13.6585"

Support Facilities

The proposed railway loop alignment is situated within the existing Transnet railway servitude however a site camp will be required for the construction phase of the development. Transnet have agreed with Glencore, who currently operate a chrome smelter directly adjacent to the servitude, to make use of one of the existing transformed areas within their property.

Access Road - The site will be accessed via 'Main Road', which is a tarred road intersecting the R565 at a point located south of Boshhoek, and then via several existing un-tarred railway servitudes roads. As such, the development will not require any additional access roads to be constructed other than the new servitude which will be constructed north of the proposed new loop.

Site Camp - A construction site camp will be required during the construction phase of the proposed development. It will be located within an already-disturbed area near to the proposed development site, within the property currently utilized by the Glencore chrome smelter, immediately off Main Road towards the north of the Glencore Smelter. The site contains no vegetation, having been used as a turning zone for mining trucks.

Water Supply - Water required for the construction phase of the proposed development will be acquired from the Rustenburg Local Municipality as well as from several existing Transnet water depots within the vicinity of the existing railway line. Based on the proximity of nearby surface water resources, the proposed development will trigger Section 21c and 21i water uses, as set out in the National Water Act (NWA) (Act No. 36 of 1998, as amended), thus requiring a Water Use Authorisation (WUA) application to the Department of Water and Sanitation (DWS).

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Solid Waste, Wastewater and Sewage – The construction phase of the proposed development will include temporary onsite ablution facilities which will be emptied and serviced by an external service provider. Solid waste generated will be collected and stored in a designated area within the proposed site camp and will be removed to a licenced landfill facility by the contractor on a regular basis. There is no solid waste or sewerage associated with the operational phase of the proposed railway loop.

Electricity supply – Electricity supply will be obtained from the existing Eskom service lines located within the railway servitude and will be derived from the National Grid. The existing line is currently electrified at 25 kilovolts (kV) and the proposed loops will feed into this existing system.

b) Listed activities associated with the project

Listed activity as described in GN 983 and 985	Description of project activity
<p>GNR 327, Listing Notice 1, Activity 14: The development and related operation 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 cubic metres or more but not exceeding 500 cubic metres.</p>	<p>Operations of a siding include the temporary storage of moderate quantities of dangerous goods (e.g. oil, fuel etc.), which may exceed the threshold identified.</p>
<p>GNR 327 – Listing Notice 1, No. 19: The infilling or depositing of any material of more than 10 cubic metres into, or the dredging, excavation, removal or moving of soil, sand, shells, shell grit, pebbles or rock of more than 10 cubic metres from a watercourse</p>	<p>Due to the alignment of the proposed loop traversing the Matlopyane River, development within or near a watercourse will definitely occur and will result in the removal or depositing of material within and near the watercourse.</p>
<p>GNR 327, Listing Notice 1, Activity 64: The expansion of railway lines, stations or shunting yards where there will be an increased development footprint, excluding— (i) railway lines, shunting yards and railway stations in industrial complexes or zones; (ii) underground railway lines in mines; or (iii) additional railway lines within the railway line reserve.</p>	<p>Construction of the proposed loop comprises expansion of existing railway facilities by constructing a new 1.67km line adjacent to the existing line, which will increase the development footprint beyond that of the existing railway reserve, thus triggering this activity.</p>
<p>GNR 324, Listing Notice 3, Activity 12: 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 purpose undertaken in accordance with a maintenance management plan. h. North West: iv. Critical biodiversity areas as identified in a systematic biodiversity plan.</p>	<p>Construction of the proposed loop comprises clearance of approximately 1.6ha of indigenous vegetation, across regions classified as CBA 2.</p>

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<p>GNR 324, Listing Notice 3, Activity 14: The development of— (ii) infrastructure or structures with a physical footprint of 10 square metres or more; where such development occurs— (a) within a watercourse; h. North West iv. Critical biodiversity areas as identified in systematic biodiversity plans adopted by the competent authority.</p>	<p>Due to the alignment of the proposed loop, development within or near a watercourse will be definitely occur.</p>
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2. FEASIBLE AND REASONABLE ALTERNATIVES

“alternatives”, in relation to a proposed activity, means different means of meeting the general purpose and requirements of the activity, which may include alternatives to—

- (a) the property on which or location where it is proposed to undertake the activity;
- (b) the type of activity to be undertaken;
- (c) the design or layout of the activity;
- (d) the technology to be used in the activity;
- (e) the operational aspects of the activity; and
- (f) the option of not implementing the activity.

The preferred alternative considered in this Basic Assessment involves placing a single rail line immediately adjacent to the existing rail line (to the northern side of the existing track). The preferred site alternative was determined by Transnet who conducted a simulation to determine the location for the railway loop in order to serve the needs of the Waterberg line. Only the preferred alternative will be assessed in this report as this alternative is the only reasonable and feasible means of meeting the requirements of the proposed railway loop.

a) Site alternatives

Non-linear Activities:

Alternative 1 (preferred alternative)		
Description	Lat (DDMMSS)	Long (DDMMSS)
Site camp location.	25° 29' 03.1" S	27° 06' 31.3" E

Linear Activities:

Alternative:	Latitude (S):	Longitude (E):
Alternative 1 (preferred)		
• Starting point of the activity	25° 29' 39.2" S	27° 05' 51.0" E
• Middle/Additional point of the activity	25° 30' 07.4" S	27° 06' 36.8" E
• End point of the activity	25° 30' 52.4" S	27° 07' 18.0" E

No site alternatives are deemed feasible for this particular project due to the positioning of the existing railway line. The preferred site alternative will be the only suitable site to serve the purposes of a railway loop.

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b) Lay-out alternatives

Alternative 1 (preferred alternative)		
Description	Lat (DDMMSS)	Long (DDMMSS)
Please refer to Appendix C for the preferred layout of the proposed activity		

No layout alternatives have been proposed for this development. The preferred layout alternative satisfies the requirements of the applicant in terms of the logistical needs of a railway loop and does not pose any additional environmental issues that another alternative layout could mitigate.

c) Technology alternatives

Alternative 1 (preferred alternative)
As the activity is related to the construction of a railway loop, the most appropriate construction methods will be used based on what is available in terms of equipment as well as materials. During the construction phase, water will be obtained from the local municipal water supply systems. Where possible and practical, standard practices regarding energy efficiency during the construction and operational phases will be followed (i.e. energy saving light bulbs, recycling of waste, re-use of railway materials etc.).

There are no other technology alternatives proposed for this project as the preferred technology alternative is the only means of achieving the desired outcomes of the project and most feasible and practical options were chosen from an economical and environmental perspective.

d) Other alternatives (e.g. scheduling, demand, input, scale and design alternatives)

There are no other alternatives relevant to this project as the preferred alternative is the only means of achieving the desired railway loop.

e) No-go alternative

This alternative assumes that the status quo will remain unchanged and that there will be no railway loop constructed along the existing line. There will be no vegetation clearing required and the adjacent land will remain in its current state. However, under the No-go alternative, the absence of the railway loop would result in the continuation of increased rail congestion and delays in the transport of important commodities such as coal, chrome, iron ore, containers and general freight. The existing railway line cannot currently meet the requirements associated with railway transportation along the Transnet Waterberg rail corridor.

3. PHYSICAL SIZE OF THE ACTIVITY

a) Physical size of the preferred activity/technology as well as alternative activities/technologies (footprints):

Alternative:

Alternative 1 (preferred activity alternative)

Size of the activity:

Approximately 0.5ha

and for linear activities:

Alternative:
Alternative 1 (preferred activity alternative)

Length of the activity:
1.67 km

b) Size of the alternative sites or servitudes (within which the above footprints will occur):

Alternative:
Alternative 1 (preferred activity alternative)

Size of the site/servitude:
Approximately 1.6 hectares (1 600m²)

4. SITE ACCESS

Boshoek is located approximately 140km west of Pretoria along the National Route 4 (N4) and R565 regional road. The site will be accessed via 'Main Road', which is a tarred road intersecting the R565 at a point located south of Boshoek, and then via several existing un-tarred railway servitudes roads. As such, the development will not require any additional access roads to be constructed other than the new servitude which will be constructed north of the proposed new loop (Figure 1.5).

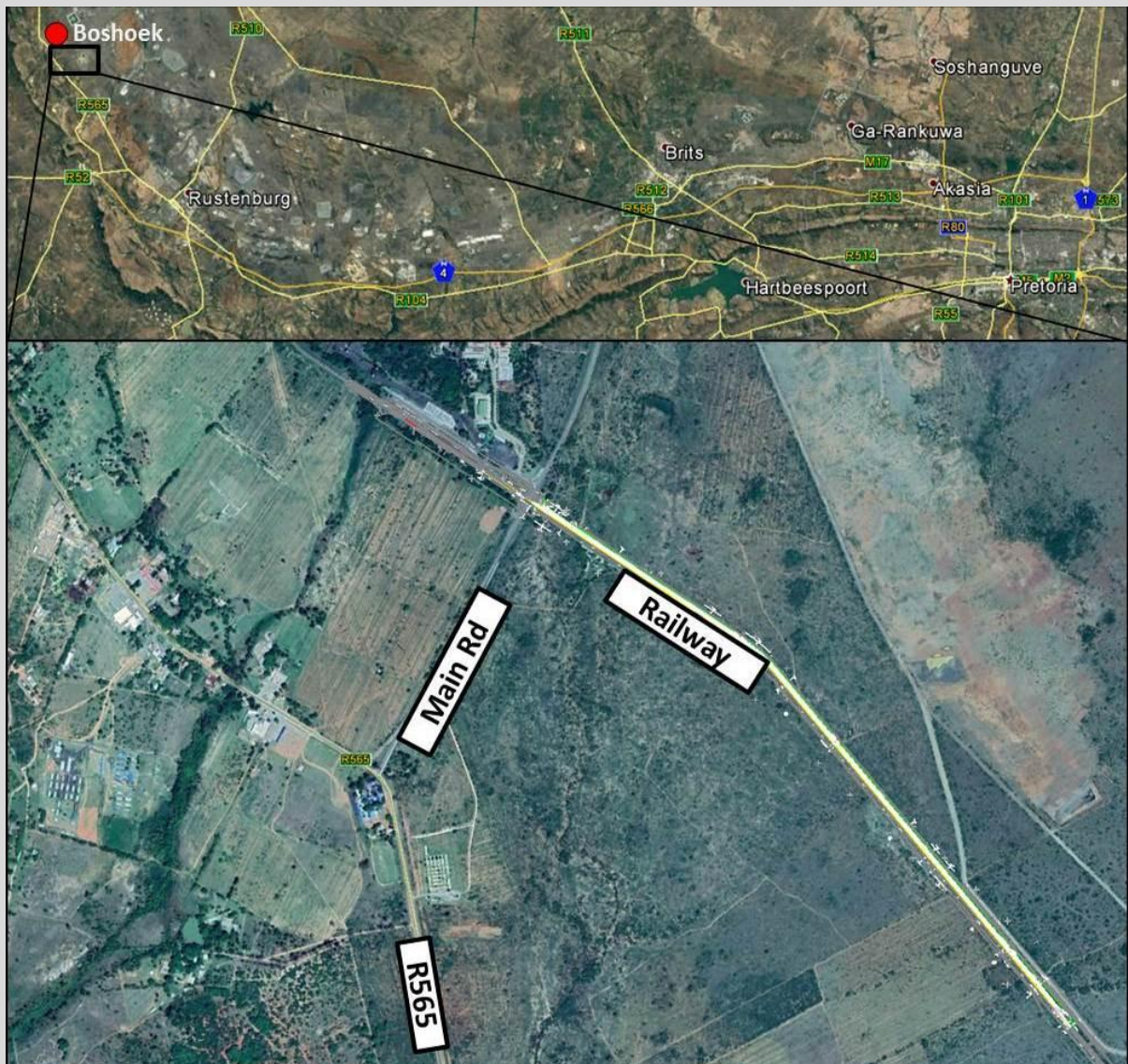


Figure 1.5: Locality map showing the access routes to and from the project site.

5. LOCALITY MAP

Please refer to Appendix A.

6. LAYOUT/ROUTE PLAN

Please refer to Appendix A.

7. SENSITIVITY MAP

Please refer to Appendix A.

8. SITE PHOTOGRAPHS

Please refer to Appendix B.

9. FACILITY ILLUSTRATION

Please refer to Appendix C.

10. ACTIVITY MOTIVATION

The following section motivates and explains the need and desirability of the activity (including demand for the activity):

The proposed development forms part of the Waterberg rail corridor which provides access between Botswana and the Mpumalanga Province. The aim of the railway corridor is to increase the coal-carrying capacity and provide access to the neighbouring countries' coalfields, given that the Witbank coal mines in South Africa would eventually be depleted. The proposed railway loop will allow for more trains to utilize this section of the railway at any given point. This will serve the purpose of providing a passing lane along the existing line.

The National Development Plan (NDP) represents a new approach by Government to promote sustainable and inclusive development in South Africa, and involves, amongst others, the following key areas of focus:

- Creating jobs and livelihoods;
- Expanding infrastructure;
- Improving education and training.

The construction of the proposed railway loop will contribute in some way to all of these key areas. Unlocking the Waterberg area is a key priority in Government's National Development Plan and has been identified as part of Strategic Infrastructure Projects (SIP 1) by the Presidential Infrastructure Coordinating Commission (PICC). Expansion in rail capacity was identified as a strategic initiative and received much attention from Government as a key driver for the South African economy.

The Rustenburg Local Municipality Integrated Development Plan 2017 – 2022 (IDP, 2017) has a list of key outputs required by the municipality to meet National Outcome targets. One of these outputs is to “*maintain and expand road and rail network*” and improve their efficiency, capacity and effectiveness. In addition to this, the Bojanala Platinum District Municipality IDP (2011) has several transport planning objectives including “*to promote rail freight transport to ensure optimal balance between road and rail and cost-efficient transport.*” The proposed development will also create a number of temporary employment

opportunities during the construction phase which will contribute to the IDPs' job-creation objectives.

The construction of the new loop will be undertaken within the Transnet railway servitude, however Transnet will acquire land (in the form of a lease agreement) for the purpose of a stockpiling and site camp establishment area. Included in this servitude are a single-track rail and a 3.5m wide gravel road immediately adjacent to the rail. The remaining area is covered by natural vegetation. According to the 2006 North West Provincial Spatial Development Framework (SDF), the surrounding land is classified as 'Mining', (Figure 1.6). The 2013-2014 South African National Land-Cover Dataset defines the land use of the surrounding areas as 'Woodland/Open bush', 'Cultivation' and 'Mine', while the 2009 South African National Landcover database incorrectly classifies a section of the adjacent areas as 'cultivation' (Figure 1.7).

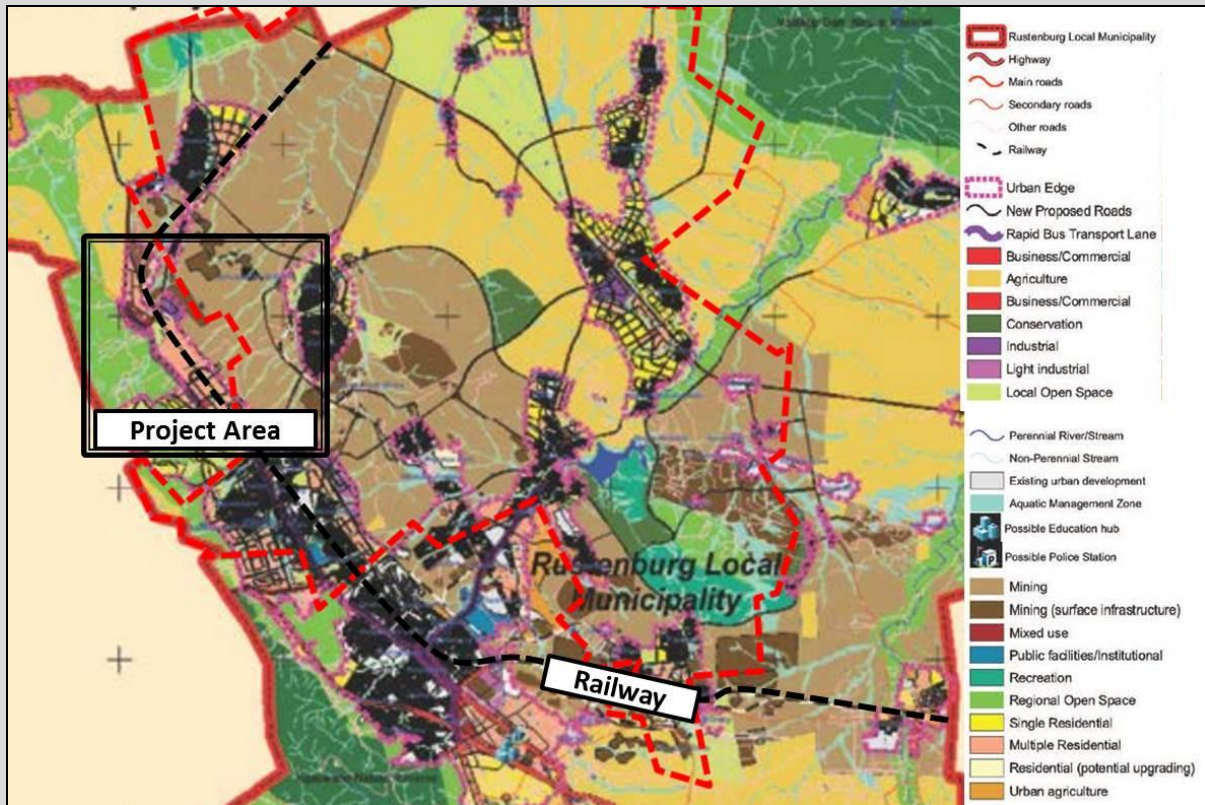


Figure 1.6: Zoom of the North West Provincial Spatial Development Framework (SDF) (from Surbana, 2006).

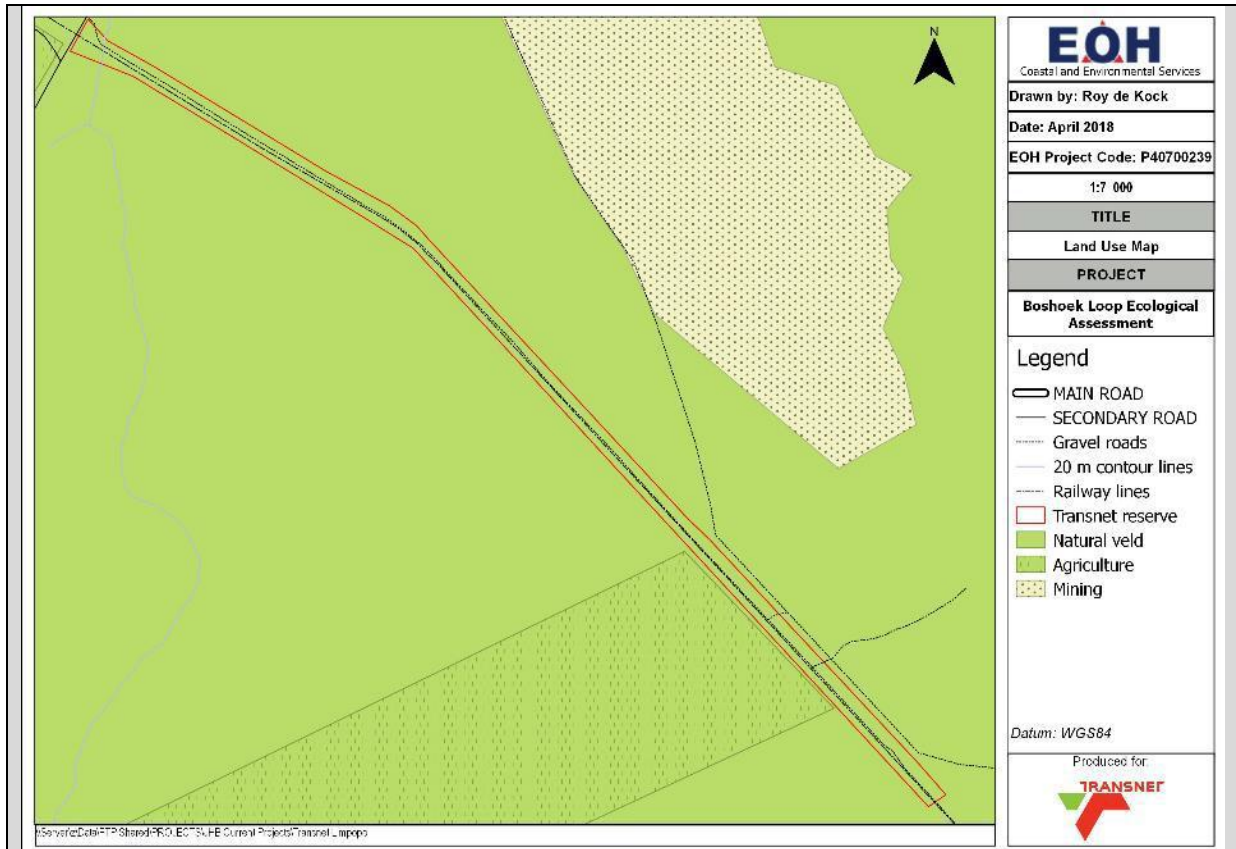


Figure 1.7: Land use of the Boshhoek Loop and surrounding areas.

The proposed development will not contravene any Environmental Management Framework (EMF) conditions adopted by the DEA and will not be in contravention of any other plans, frameworks or guidelines as set out by the local government. The proposed development is in line with the key focus areas of the IDP and the SDF and meets the land use requirements of the area in terms of providing a transportation infrastructure service within the Rustenburg Local Municipality. In addition to this, the proposed development is in line with Strategic Infrastructure Project (SIP) Number 4 – ‘Unlocking the economic opportunities in North West Province.’ The ability for South Africa to increase its exports is largely dependent of the production capacity of coal together with availability of the necessary transport infrastructure. This project will therefore indirectly contribute increasing South Africa’s export potential.

11. APPLICABLE LEGISLATION, POLICIES AND/OR GUIDELINES

Title of legislation, policy or guideline	Applicability to the project	Administering authority	Date
Constitution of the Republic of South Africa (108 of 1966)	Chapter 2 of the Constitution, includes an environmental right (Section 24): <ul style="list-style-type: none"> • Obligation to ensure that the proposed development will not result in pollution and ecological degradation; and • Obligation to ensure that the proposed development is ecologically sustainable, while demonstrating economic and social development. 	National, Provincial and Local Government	1996
Environmental Impact	The activity triggers activities listed in NEMA GN R 327 and GN R 324.	Department of Environmental	2014

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Assessment Regulations (2014 as amended in 2017)		Affairs	
National Environmental Management Act No 107 of 1998 (as amended)	Listed activities require the submission of an EIA (Basic Assessment process) for the proposed development.	Department of Environmental Affairs	1998
Occupational Health & Safety Act (Act No. 85 of 1993)	The applicant must be mindful of the principles and broad liability and implications contained in the OH&S Act and mitigate any potential impacts. Compensation as a result of injuries and/or diseases will need to be addressed according to the Compensation for Occupation Injuries and Diseases Act (Act 130 of 1993) in the event of any legitimate matter arising.	Department of Labour	1993
National Environmental Management: Air Quality Act (39 of 2004)	The construction of the proposed railway loop will create limited dust and vehicle emissions which will need to be managed.	Department of Environmental Affairs	2004
National Environmental Management: Waste Act (Act No. 59 of 2008)	The proposed development will generate general waste during the construction phase and will need to adhere to the waste management legislation.	Department of Environmental Affairs	2008
Hazardous Substances Act (15 of 1973)	The proposed development will involve the operation of a siding which includes the temporary storage of moderate quantities of potentially hazardous substances which will need to be correctly used and maintained	Department of Environmental Affairs	1973
National Environmental Management: Biodiversity Act (Act No. 10 of 2004) and the National Environmental Management: Biodiversity Act, 2004 (Act no. 10 of 2004) – Alien and Invasive Species (AIS) Regulations	<ul style="list-style-type: none"> • The proposed development must conserve endangered ecosystems and protect and promote biodiversity and must assess the impacts of the proposed development on endangered ecosystems; • No protected species must be removed or damaged without a permit; • The proposed site must be cleared of alien vegetation using appropriate means; • An invasive species monitoring, control and eradication plan for land/activities under their control must be developed, as part of their environmental plans in accordance with section 11 of NEMA; • Please refer to the Ecological Specialist Report which includes lists of critical and endangered species (Appendix D). 	Department of Environmental Affairs	2004
National Water Act	<ul style="list-style-type: none"> • Manage the use of water as well as 	Department of	1998

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36 of 1998	runoff in such a manner that it has limited pollution impacts; <ul style="list-style-type: none"> Prevent the unauthorised use of water; Use water sparingly. 	Water and Sanitation	
National Forest Act 84 of 1998	If any protected trees in terms of this Act occur on site, the developer will require a licence from DAFF to perform any of the above activities.	Department of Agriculture, Forestry and Fisheries	1998
National Heritage Resources Act 25 of 1999	<ul style="list-style-type: none"> No person must alter or demolish any structure or part of a structure, which is older than 60 years or disturb any archaeological or paleontological site or grave older than 60 years without a permit issued by the relevant provincial heritage resources authority. No person must, without a permit issued by the responsible heritage resources authority destroy, damage, excavate, alter or deface archaeological or historically significant sites. 	South African Heritage Resources Agency	1999
Municipal Bylaws	Certain activities related to the proposed development must, in addition to National legislation, be subject to control by municipal by-laws.	Rustenburg Local Municipality and Bojanala Platinum District Municipality	

12. WASTE, EFFLUENT, EMISSION AND NOISE MANAGEMENT

a) Solid waste management

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

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

YES	<input type="checkbox"/>
✓	<input checked="" type="checkbox"/>
Unknown	

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

Solid waste generated during the construction phase of the proposed development will primarily consist of building rubble and litter (e.g. plastic, glass, etc.). Waste skips/bins will be provided throughout the construction site. These skips will be made scavenger proof. General construction waste will be removed by the by local municipality's waste removal services.

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

The waste will be transferred by the removal services to a permitted landfill site, the nearest of which is the Waterval Landfill site (Licence No. 12/9/11/L726/7).

Will the activity produce solid waste during its operational phase?

<input checked="" type="checkbox"/>	NO ✓
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Can any part of the solid waste be classified as hazardous in terms of the NEM:WA?

YES ✓

Due to the nature of the development, there is the potential for limited hazardous waste to occur on site during the construction and operational phases however, the anticipated amounts would not trigger the requirement of a waste permit in terms of the NEM:WA. These may include hydrocarbon waste and hydrocarbon contaminated material. These wastes could either be recycled and or removed by a licenced service provider from site to one of the Hazardous Waste Disposal facilities located within the Rustenburg Local Municipality (Table 1.2).

Table 1.2: List of Hazardous Waste Facilities within the Rustenburg Local Municipality.

Province	Municipality	License number (version: license number linked to)	Facility name	Waste classification	Facility type	Date Awarded
North West	Rustenburg	12/9/11/L928/7	Bafokeng Rasimone Platinum Mine [Show description]	Hazardous	Effluent, waste water or sewage treatment works	2013-09-18
North West	Rustenburg	12/9/11/L43389/7	GLENCORE MERAPE VENTURE OPERATION BOSHOEK SMELTER [Show description]	Hazardous	Disposal of waste on land	2015-10-16
North West	Rustenburg	12/9/11/L43389/7	GLENCORE MERAPE VENTURE OPERATION- BOSHOEK SMELTER [Show description]	Hazardous	Disposal of waste on land	2015-10-16
North West	Rustenburg	12/9/11/L806/7	Impala Platinum Limited Waste Management facility [Show description]	Hazardous	Storage of waste	2012-12-12
North West	Rustenburg	12/9/11/R1161/7	KLIPFONTEIN [Show description]	Hazardous	Remediation of contaminated land	2014-10-28
North West	Rustenburg	12/9/11/L724/7	KROONDAL CHROME MINE [Show description]	Hazardous	Effluent, waste water or sewage treatment works	2013-12-18
North West	Rustenburg	12/9/11/L1380/7	KROONDAL PLATINUM MINE [Show description]	Hazardous	Treatment of waste	2016-01-11
North West	Rustenburg	12/9/11/25/8	Oil Separation Rustenburg [Show description]	Hazardous	Disposal of waste on land	2009-10-05
North West	Rustenburg	12/9/11/L25/8	OIL SEPARATION SOLUTION RUSTENBURG [Show description]	Hazardous	Storage of waste	2009-10-10
North West	Rustenburg	12/9/11/L25/8/R1	OIL SEPARATIONS SOLUTIONS RUSTENBURG [Show description]	Hazardous	Treatment of waste	2015-04-14
North West	Rustenburg	12/9/11/L25/8/V1	OSS SALES AND SERVICES RUSTENBURG [Show description]	Hazardous	Storage of waste	2013-10-27
North West	Rustenburg	12/9/11/L725/7	RIETVLY SILICA MINE [Show description]	Hazardous	Storage of waste	2013-01-11
North West	Rustenburg	12/9/11/ST129/7	RIVERSIDE PARK TRADING 232 (PTY) LTD [Show description]	Hazardous	Storage of waste	2017-08-03
North West	Rustenburg	12/9/11/L53348/7/V	RUSTENBURG SMELTER DECOMMISSIONING [Show description]	Hazardous	Remediation of contaminated land	2017-02-14
North West	Rustenburg	12/9/11/L53339/7/V	RUSTENBURG SMELTER- GLENCORE OPERATIONS [Show description]	Hazardous	Disposal of waste on land	2017-02-02
North West	Rustenburg	12/9/11/L726/7	Waterval Chrome Mine [Show description]	Hazardous	Storage of waste	2013-09-26
North West	Rustenburg	12/9/11/L295/7	Western Platinum Mine [Show description]	Hazardous	Recycling and recovery of waste	2011-05-25

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

NO ✓

b) Liquid effluent

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

NO ✓

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

	NO ✓
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Any waste water produced during the construction phase will be collected and disposed of at a licenced treatment facility, the nearest of which is the Rustenburg Waste Water Treatment Works (WWTW).

c) Emissions into the atmosphere

Will the activity release emissions into the atmosphere other than exhaust emissions and dust associated with construction phase activities?

	NO ✓
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Atmospheric emissions are likely to consist of construction-related dust derived from cleared areas and movement of vehicles on site. The concentration of these emissions will vary, but are unlikely to be significant.

d) Waste permit

Will any aspect of the activity produce waste that will require a waste permit in terms of the NEM:WA?

	NO ✓
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e) Generation of noise

Will the activity generate noise?

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

	NO ✓
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Noise will be generated during the construction phase where machinery required for the construction of the railway loop, as well as general construction plant, will be operating. The following mitigation measures will ensure that noise created during construction is managed adequately:

- Ensure that vehicles and equipment used on site are in good working order and are serviced properly;
- Limit construction activities to daylight hours i.e. 7am to 5pm;
- Apply applicable municipal by-laws with regards to noise control;
- The staff involved in the construction will not be housed on site and will also be informed as to how they can avoid any unnecessary noise pollution during working hours.

The operational phase of the development may cause an increase in noise as a result of increased railway use. The noise associated with all phases of the development is considered to be negligible due to the location away from any residential areas.

13. WATER USE

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

Municipal ✓	Water board	Groundwater	River, stream, dam or lake	Other ✓	The activity will not use water
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Water may also be obtained from Transnet water depots which are located within the vicinity of the existing railway line.

BASIC ASSESSMENT REPORT

Does the activity require a water use authorisation (general authorisation or water use license) from the Department of Water Affairs?

YES

✓

The proposed railway loop will be constructed within the 500m buffer of a wetland identified in terms of the National Freshwater Ecosystem Priority Areas (NFEPAs) project. Two (2) additional wetlands were identified within the project area. An Aquatic and Wetland Assessment has been completed for the proposed project (please refer to Appendix D).

14. ENERGY EFFICIENCY

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

Where possible, energy saving technology (e.g. energy-saving lighting etc.) will be used.

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

No alternative energy sources will be utilised for this development.

SECTION B: SITE/AREA/PROPERTY DESCRIPTION

1. Has a specialist been consulted to assist with the completion of this section?

YES ✓	
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Please refer to Appendix I for the specialist declarations.

Property description/physical address:

Province	North West
District Municipality	Bojanala Platinum District Municipality
Local Municipality	Rustenburg Local Municipality
Ward Number(s)	6
Farm name and number	Please refer to Appendix J for a full list of the properties, portions and SG codes associated with the proposed development.
Portion number	
SG Code	

Current land-use zoning as per local municipality IDP/records:

The construction of the new loop will be undertaken within the Transnet railway servitude, however Transnet will acquire land (in the form of a lease agreement) for the purpose of stockpiling and site camp establishment area. Included in this servitude is a single-track rail and a 3.5m wide gravel road immediately adjacent to the rail. The remaining area is covered by natural vegetation. According to the 2006 North West Provincial Spatial Development Framework (SDF), the surrounding land is classified as 'Mining', (Figure 1.6). The 2013-2014 South African National Land-Cover Dataset defines the land use of the surrounding areas as 'Woodland/Open bush', 'Cultivation' and 'Mine', while the 2009 South African National Landcover database incorrectly classifies a section of the adjacent areas as 'cultivation' (Figure 1.7).

Is a change of land-use or a consent use application required?

	NO ✓
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1. GRADIENT OF THE SITE

Alternative S1:

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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BASIC ASSESSMENT REPORT

The proposed new Boshhoek Loop is found on a level area at 1150 meter above sea level (Figure 2.1).

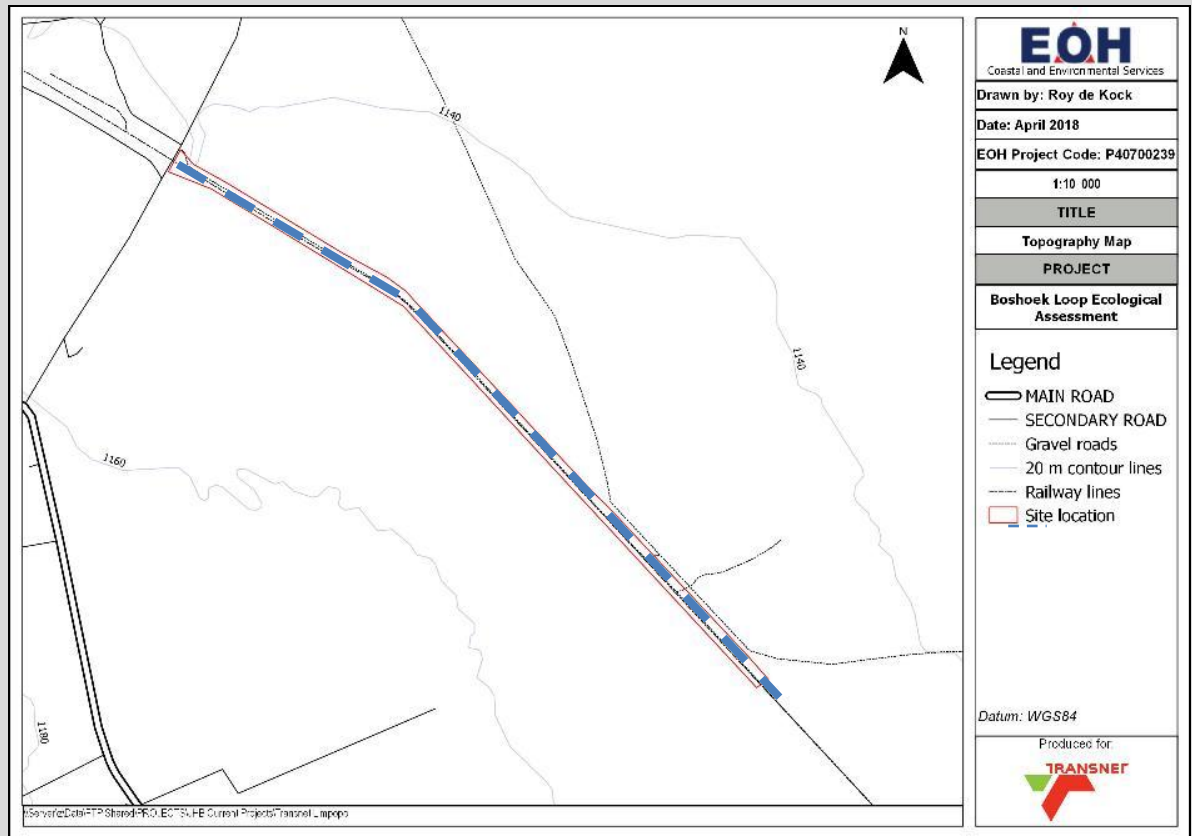


Figure 2.1: Topography showing contours with height above sea level in meters.

2. LOCATION IN LANDSCAPE

The landform(s) that best describes the site:

2.1 Ridgeline	<input type="checkbox"/>	2.4 Closed valley	<input type="checkbox"/>	2.7 Undulating plain / low hills	<input type="checkbox"/>
2.2 Plateau	<input type="checkbox"/>	2.5 Open valley	<input type="checkbox"/>	2.8 Dune	<input type="checkbox"/>
2.3 Side slope of hill/mountain	<input type="checkbox"/>	2.6 Plain	<input checked="" type="checkbox"/>	2.9 Seafront	<input type="checkbox"/>
2.10 At sea	<input type="checkbox"/>				

3. GROUNDWATER, SOIL AND GEOLOGICAL STABILITY OF THE SITE

The proposed new Boshhoek Loop falls within the Western Limb of the Rustenburg Layered Suite (RLS) of rocks that forms part of the Bushveld Complex (Figure 2.2). The mafic rocks of the Bushveld Complex constitute the most voluminous preserved mafic layered intrusion in the world underlying an area of 65 000 km². Surface rocks consist of the Schilpadsnest Subsuite that constitutes the Critical Zone of the RLS in the Western Limb. The Critical Zone contains huge deposits of chromite and platinum and are locally mined in the area. Soils are mostly deep, red-yellow to black in colour, apedal and drains freely while have a high base status with some vertic or melanic clay (Figure 2.3). Erosion is considered very low to low.

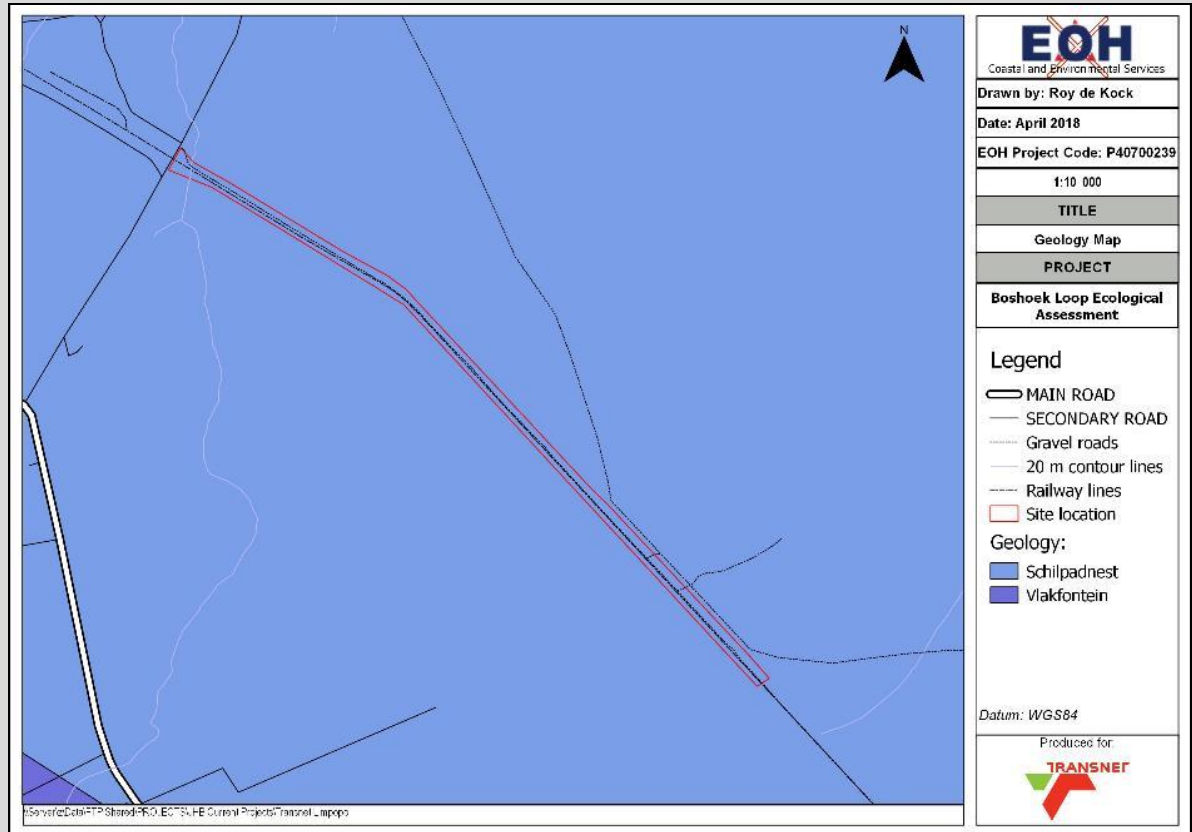


Figure 2.2: Regional Geology of the Boshhoek Loop and surrounding areas.

	Alternative S1:	Alternative S2 (if any):	Alternative S3 (if any):
Shallow water table (less than 1.5m deep)	YES ✓		
Dolomite, sinkhole or doline areas			NO ✓
Seasonally wet soils (often close to water bodies)	YES ✓		
Unstable rocky slopes or steep slopes with loose soil			NO ✓
Dispersive soils (soils that dissolve in water)			NO ✓
Soils with high clay content (clay fraction more than 40%)	YES ✓		

BASIC ASSESSMENT REPORT

Any other unstable soil or geological feature

	NO ✓
	NO ✓

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An area sensitive to erosion

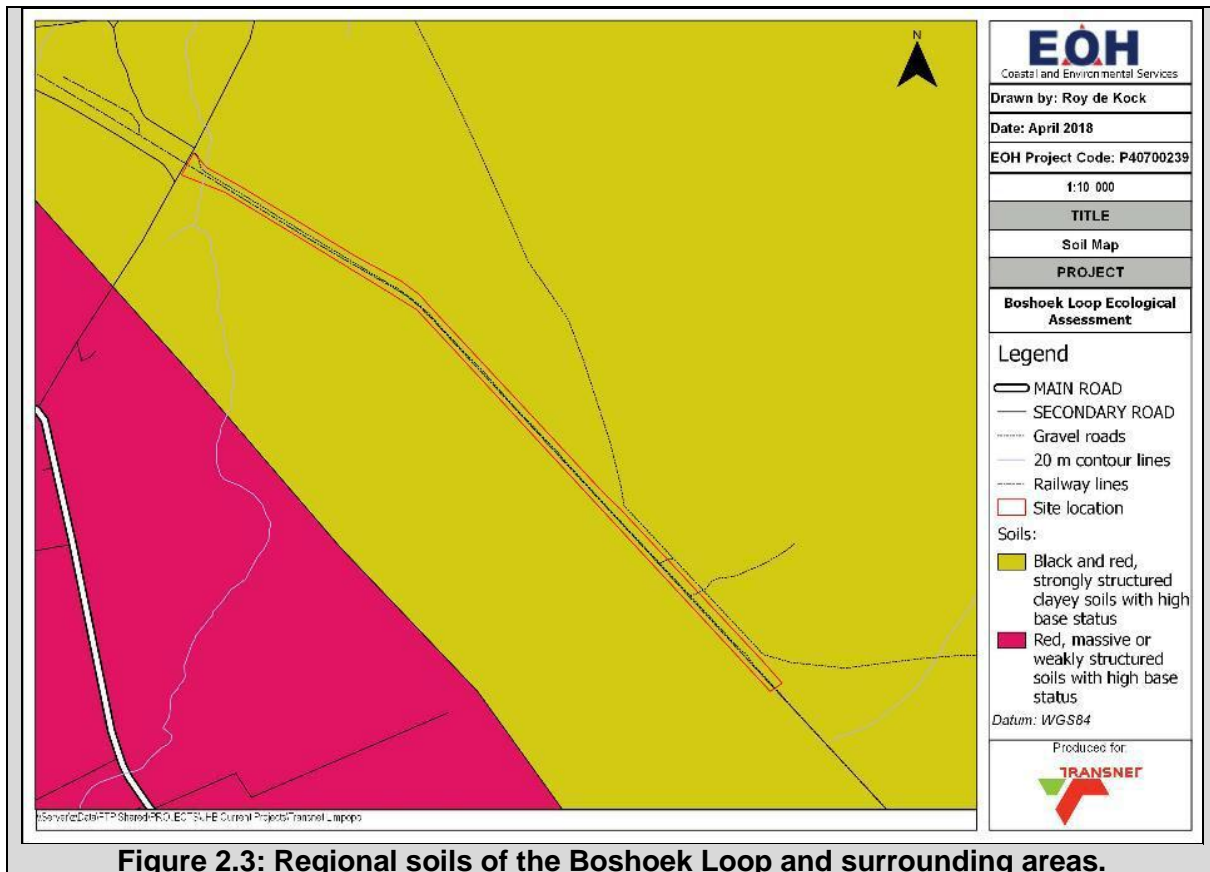


Figure 2.3: Regional soils of the Boshhoek Loop and surrounding areas.

The proposed railway loop will be constructed within the 500m buffer of a wetland identified in terms of the National Freshwater Ecosystem Priority Areas (NFEPA) project. Two (2) additional wetlands were identified within the project area. An Aquatic and Wetland Assessment has been completed for the proposed project (please refer to Appendix D).

4. GROUNDCOVER

The proposed new Boshhoek Loop study area is almost entirely cleared of any vegetation as it is covered by either existing rail or a gravel road. Natural vegetation occurs on either sides of the railway track and is concentrated on the edges of the length of the site. The section that was covered by natural vegetation consists of mesic savanna in various degrees of degradation. As construction will occur on the northern side of the railway track some vegetation will be impacted by clearing. An Ecological Assessment has been completed for the proposed project (please refer to Appendix D).

5. SURFACE WATER

The proposed railway loop will be constructed within the 500m buffer of a wetland identified in terms of the National Freshwater Ecosystem Priority Areas (NFEPA) project. Two (2) additional wetlands were identified within the project area. An Aquatic and Wetland Assessment has been completed for the proposed project (please refer to Appendix D).

BASIC ASSESSMENT REPORT

6. LAND USE CHARACTER OF SURROUNDING AREA

Land uses and/or prominent features that currently occur within a 500m radius of the site and description of how this influences the application or may be impacted upon by the application:

Natural area ✓	Dam or reservoir	Polo fields
Low density residential	Hospital/medical centre ✓	Filling station ^H
Medium density residential	School	Landfill or waste treatment site
High density residential	Tertiary education facility	Plantation
Informal residential ^A	Church	Agriculture ✓
Retail commercial & warehousing	Old age home	River, stream or wetland ✓
Light industrial	Sewage treatment plant ^A	Nature conservation area
Medium industrial ^{AN}	Train station or shunting yard ^N ✓	Mountain, koppie or ridge
Heavy industrial ^{AN} ✓	Railway line ^N ✓	Museum
Power station	Major road (4 lanes or more) ^N	Historical building
Office/consulting room	Airport ^N	Protected Area
Military or police base/station/compound	Harbour	Graveyard
Spoil heap or slimes dam ^A	Sport facilities	Archaeological site
Quarry, sand or borrow pit	Golf course	Other land uses (describe)

Please refer to Figure 1.6 and Figure 1.7 which show the land cover and land use zoning for the study area.

Hospital/medical centre: The Moretelepsi Community Hospital is located approximately 270m north of the railway line and will have a positive impact on the proposed development as any construction workers involved in the proposed development who become ill or injured can be treated at the nearby hospital. The proposed development is unlikely to have any impact on the hospital.

Natural Area: There are some natural areas in close proximity to the proposed development site. These areas are unlikely to have any impact on the proposed development. The development will also have a negative impact on these areas due to the potential disturbance of natural ecosystems. Negligible negative impacts such as minor traffic and construction noise may be a result of the proposed development. An Ecological Assessment and Aquatic and Wetland Assessment have been completed for the proposed project (please refer to Appendix D).

River Stream or wetland: As per the above.

Agriculture: As per the above.

How the boxes marked with an "N" will impact / be impacted upon by the proposed activity

Railway line, train station or shunting yard^N: The purpose of the development is to construct a new railway loop alongside the existing railway line and therefore these land uses form part of the proposed development. The existing train station and/or shunting yard(s) will not be impacted on by the proposed development.

BASIC ASSESSMENT REPORT

How the boxes marked with an "AN" will impact / be impacted upon by the proposed activity

Heavy Industrial AN: The Boshhoek Smelter is located directly north of the western section of the proposed development. This will have no impact on the proposed development. The construction of the railway loop will also have a positive impact on the Boshhoek Smelter as it will allow materials to be transported along the Transnet Waterberg rail corridor at more regular intervals.

The proposed site (including any alternative sites) fall within the following:

Critical Biodiversity Area (as per provincial conservation plan)	YES ✓	
Core area of a protected area?		NO ✓
Buffer area of a protected area?		NO ✓
Planned expansion area of an existing protected area?		NO ✓
Existing offset area associated with a previous Environmental Authorisation?		NO ✓
Buffer area of the SKA?		NO ✓

Please refer to Figure 2.4 and Figure 2.5 which show the critical biodiversity areas and protected areas relative to the proposed development area.



Figure 2.4: North West Province Terrestrial CBA Map (2015) for the Boshhoek Loop site.

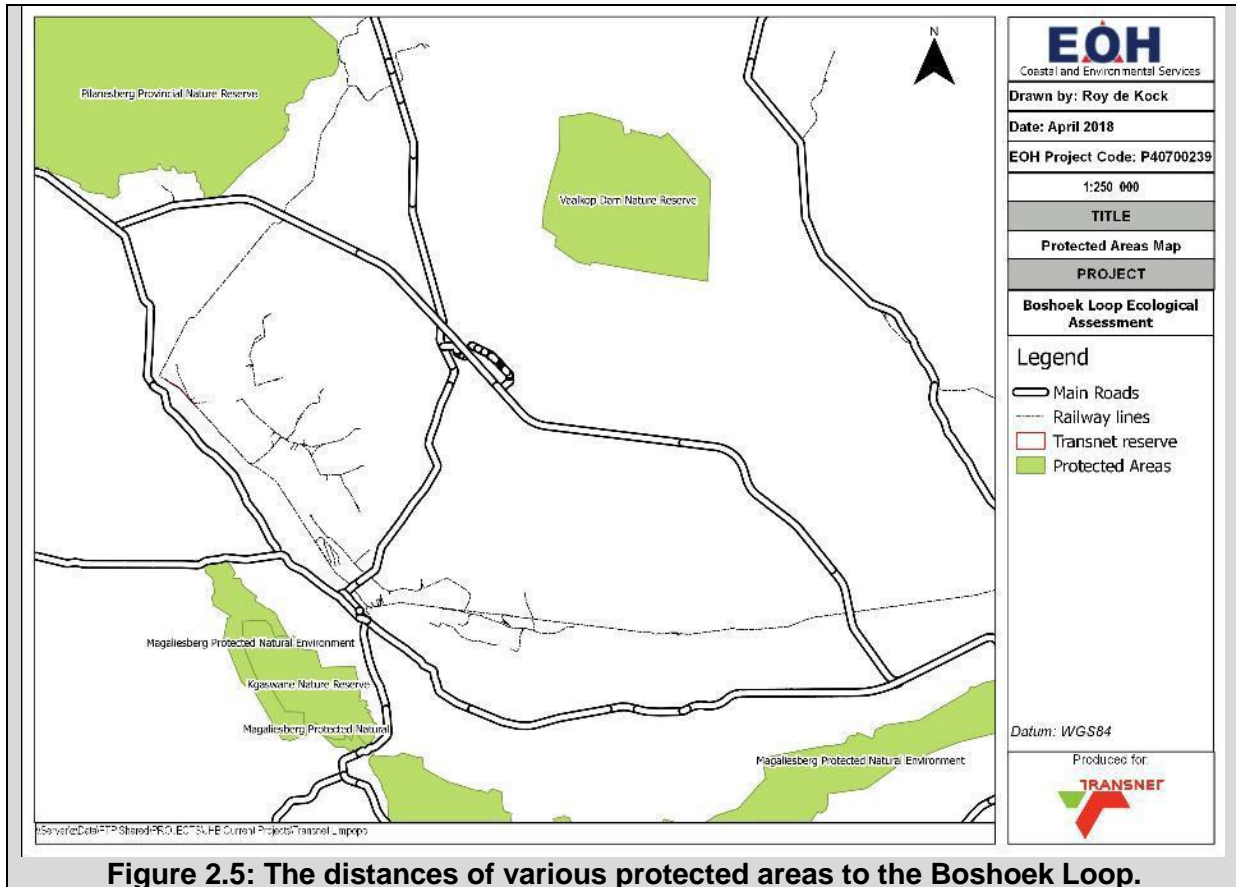


Figure 2.5: The distances of various protected areas to the Boshhoek Loop.

7. CULTURAL/HISTORICAL FEATURES

Are there any signs of culturally or historically significant elements, as defined in section 2 of the National Heritage Resources Act, 1999, (Act No. 25 of 1999), including Archaeological or paleontological sites, on or close (within 20m) to the site? If YES, explain:

YES ✓	
Uncertain	

The railway bridge, five (5) box culverts and a burial site, which date back to the Late Historical Period, have been identified as significant elements in terms of the National Heritage Resources Act. Please refer to Archaeological Impact Assessment included in Appendix D.

Brief explanation of the findings of the specialist:

A number of sites of heritage value were documented in the proposed Transnet Boshhoek Railway Loop Project footprint but impact on these sites can be mitigated. In the opinion of the author of the Archaeological Impact Assessment Report, the proposed project should proceed from a culture resources management perspective, subject to the careful implementation of required mitigation measures and, provided that no previously undetected heritage remains are encountered during construction and development. Please refer to Archaeological Impact Assessment included in Appendix D.

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)?

YES ✓	
YES ✓	

Please refer to Appendix D for proof of submission of the permit application to SAHRA.

8. SOCIO-ECONOMIC CHARACTER

a) Local Municipality

Level of unemployment:

The unemployment rate in the Rustenburg Local Municipality is 26.4% and the youth (ages 15 to 34 years) unemployment rate is 34.7%. There are approximately 266 000 economically active individuals (i.e. people who are employed or unemployed but looking for work) living within the municipality. Approximately 142 000 of the people aged 15 to 34 years old are currently unemployed (StatsSA, 2011).

Economic profile of local municipality:

The main economic contributor in the Rustenburg Local Municipality is the mining sector, which contributes approximately 70% to the local Gross Domestic Product (GDP). Other significant contributors include the trade industry, transport, community service and finance (Figure 2.6). In terms of imports versus exports, the Rustenburg Local Municipality has had a positive trade balance between 1995 and 2009. Exports increased significantly during the 2002 to 2007 period with a decline in 2008 and 2009 (Figure 2.7). The main exports include platinum (in semi-manufactured form) and ferro-chromium. The main imports include copper wire, tools, motor vehicle parts and electrical ignition equipment (Rustenburg LM IDP, 2014).

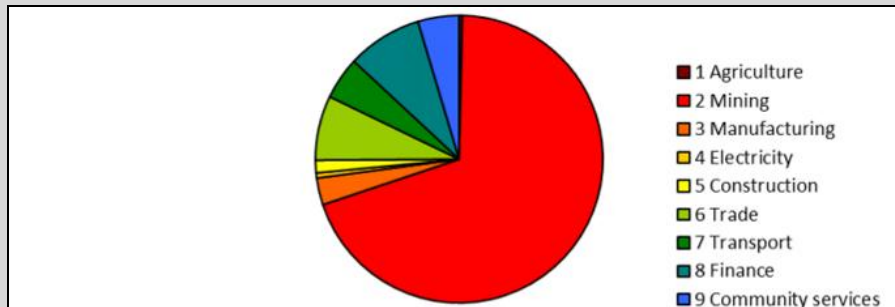


Figure 2.6: Contributions made by the various economic sectors within the Rustenburg Local Municipality (Rustenburg IDP, 2017).

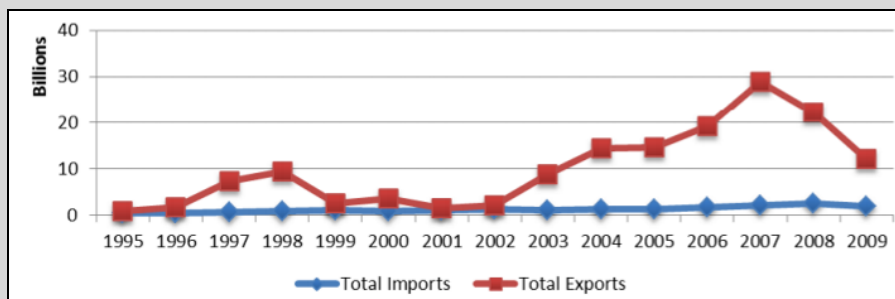


Figure 2.7: Trade Balance of the Rustenburg Local Municipality from 1995 to 2009 (Rustenburg IDP, 2017).

Level of education:

Approximately 5.4% of the total population of people aged 20 years or older living in the Rustenburg Local Municipality have not received any schooling. 31.7% have some secondary education, 17.8% have completed matric and only 2.1% have some form of higher education.

b) Socio-economic value of the activity

What is the expected capital value of the activity on completion?	R 45 million
What is the expected yearly income that will be generated by or as a result of the activity?	Not yet quantified.
Will the activity contribute to service infrastructure?	YES ✓
Is the activity a public amenity?	NO ✓
How many new employment opportunities will be created in the development and construction phase of the activity/ies?	Unknown
What is the expected value of the employment opportunities during the development and construction phase?	Unknown
What percentage of this will accrue to previously disadvantaged individuals?	Unknown
How many permanent new employment opportunities will be created during the operational phase of the activity?	Unknown
What is the expected current value of the employment opportunities during the first 10 years?	Unknown
What percentage of this will accrue to previously disadvantaged individuals?	Unknown

At this stage, the socio-economic value of the specific railway loop development cannot be determined however, the Transnet Waterberg rail corridor expansion programme is expected to contribute over R 1 billion to the GDP (Table 2.1).

Table 2.1: Socio-economic contribution of the overall Waterberg project.

The average construction impact for the Waterberg Stage 2 project	Direct Impact	Indirect Impact	Induced Impact	Total Impact
Impact on GDP (R millions)	R 506	R 261	R 489	R 1 257
Impact on Capital Formation (R millions)	R 1 092	R 499	R 959	R 2 549
Impact on Employment (Numbers)	607	377	694	1677
- Skilled Impact on Employment	113	102	190	405
- Semi- Skilled Impact on Employment	272	166	320	758
- Unskilled Impact on Employment	221	148	289	658
Impact on Households (R millions)				R 831

9. BIODIVERSITY

a) The applicable biodiversity planning categories of all areas on site and the reason(s) provided in the biodiversity plan for the selection of the specific area as part of the specific category

Systematic Biodiversity Planning Category				If CBA or ESA, indicate the reason(s) for its selection in biodiversity plan
Critical Biodiversity Area (CBA) ✓	Ecological Support Area (ESA) ✓	Other Natural Area (ONA)	No Natural Area Remaining (NNA)	<p><u>CBA 2:</u></p> <ul style="list-style-type: none"> Ecosystems and species fully or largely intact and undisturbed; Areas with intermediate irreplaceability or some flexibility in terms of meeting biodiversity targets. There are options for loss of some components of biodiversity in these landscapes without compromising the ability to achieve biodiversity targets, although loss of these sites would require alternative sites to be added to the portfolio of CBAs; These are biodiversity features that are approaching but have not passed their limits of acceptable change. <p><u>ESA 2:</u></p> <ul style="list-style-type: none"> Ecosystem NOT in a natural or near-natural state; Ecosystem significantly disturbed but still able to maintain some ecological functionality; Individual species or other biodiversity indicators are severely disturbed or reduced and these are areas that have low irreplaceability with respect to biodiversity pattern targets only; These are areas with low irreplaceability with respect to biodiversity pattern targets only. These areas are required to maintain ecological processes especially landscape connectivity. <p>An Ecological Assessment has been completed for the proposed project (please refer to Appendix D).</p>

b) The habitat condition on site

Habitat Condition	Percentage of habitat condition class (adding up to 100%)	Description and additional Comments and Observations (including additional insight into condition, e.g. poor land management practises, presence of quarries, grazing, harvesting regimes etc).
Natural	10 %	The proposed new Boshhoek Loop study area is almost entirely cleared of any vegetation as it is covered by either existing rail or a gravel road. Natural vegetation occurs on either sides of the railway track and is concentrated on the edges of the length of the site. The section that was covered by natural vegetation consists of mesic savanna in various degrees of degradation. As construction will occur on the northern side of the railway track some vegetation will be impacted by clearing. An Ecological Assessment has been completed for the proposed project (please refer to Appendix D).
Near Natural (includes areas with low to moderate level of alien invasive plants)	10 %	
Degraded (includes areas heavily invaded by alien plants)	10 %	
Transformed (includes cultivation, dams, urban, plantation, roads, etc)	70 %	

c) Vegetation and Aquatic Ecosystems:

Terrestrial Ecosystems		Aquatic Ecosystems						
Ecosystem threat status as per the National Environmental Management: Biodiversity Act (Act No. 10 of 2004)	Critical	Wetland (including rivers, depressions, channelled and unchannelled wetlands, flats, seeps pans, and artificial wetlands)			Estuary		Coastline	
	Endangered							
	Vulnerable							
	Least Threatened ✓							
		YES ✓	NO	UNSURE	YES	NO ✓	YES	NO ✓

d) Description of the vegetation type and/or aquatic ecosystem present on site, including any important biodiversity features/information identified on site

According to the South African National Biodiversity Institute Map (Mucina and Rutherford; 2012) the proposed new Boshhoek Loop is located in the Savanna biome. This biome is defined by a herbaceous layer dominated by grass species and a discontinuous to sometimes very open tree layer. The proposed new Boshhoek Loop only occurs on a single savanna vegetation type namely Zeerust Thornveld. Zeerust Thornveld is a deciduous, open to dense short thorny woodland dominated by Acacia species with an herbaceous layer consisting of mainly grasses (Figure 2.8). SANBI considers this vegetation type as Least Threatened although only 4% is statutory conserved (target is 19%). Some 16% has already been transformed by cultivation and to a lesser extent by urban built-up. The proposed railway loop will be constructed within the 500m buffer of a wetland identified in terms of the National Freshwater Ecosystem Priority Areas (NFEPA) project. Two (2) additional wetlands were identified within the project area (Figure 2.9). An Aquatic and Wetland Assessment has been completed for the proposed project (please refer to Appendix D).

BASIC ASSESSMENT REPORT

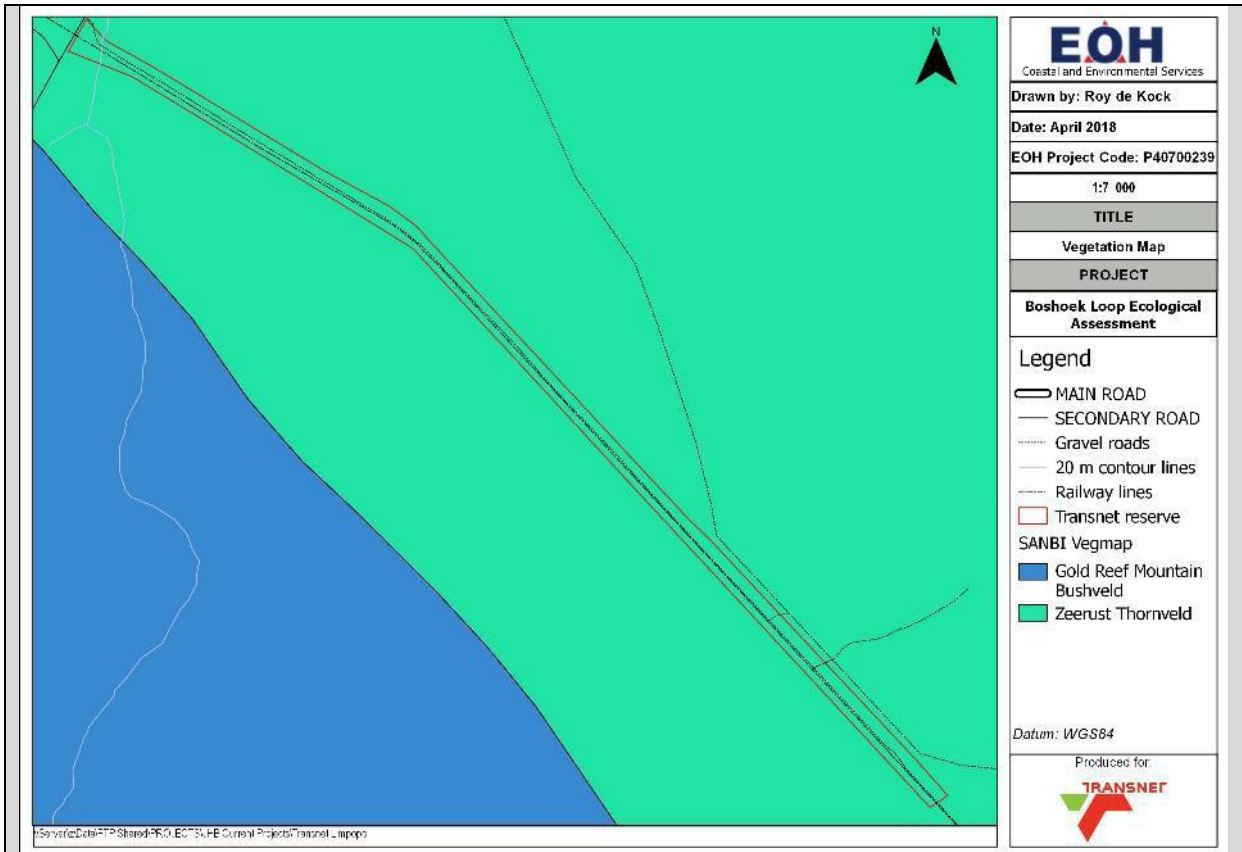


Figure 2.8: Vegetation found at the Boshhoek Loop site and surrounding areas.

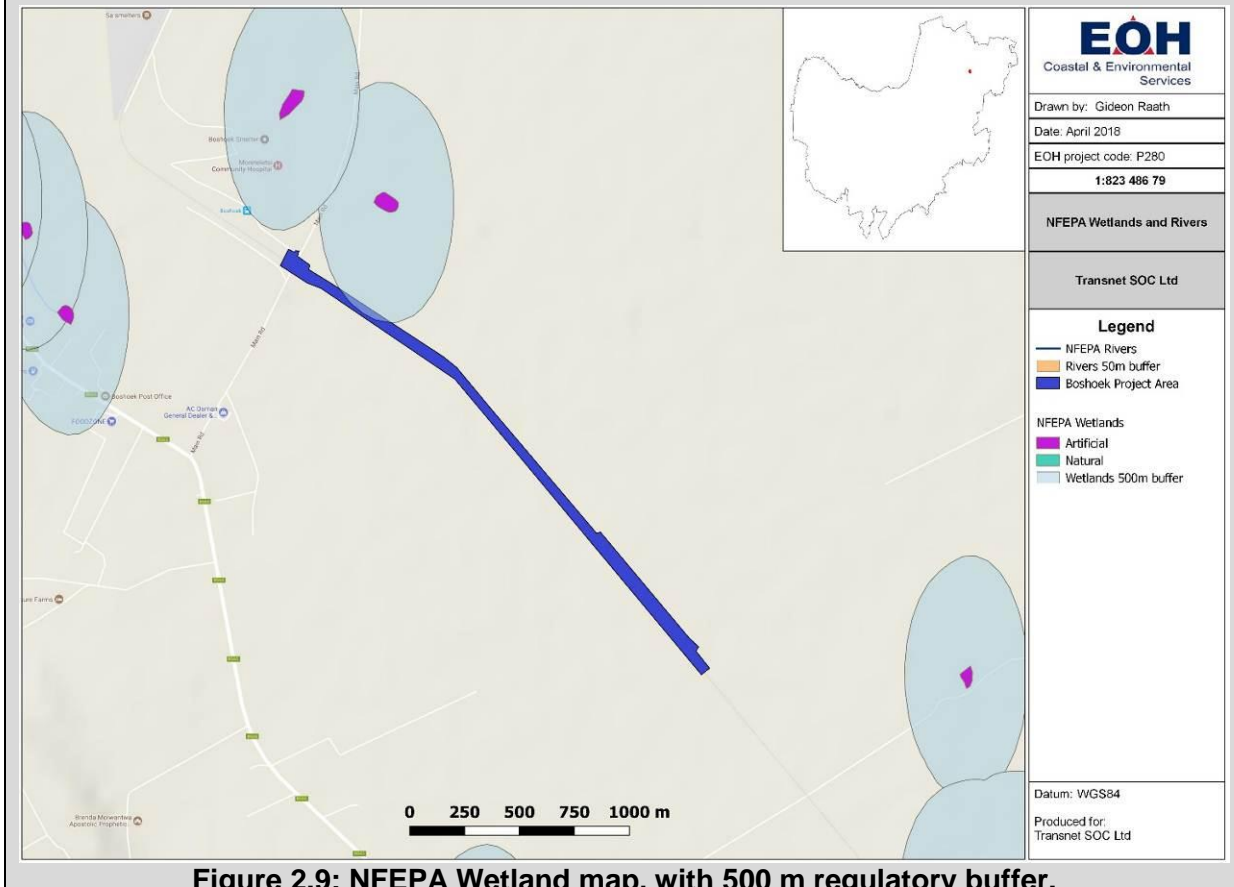


Figure 2.9: NFEPA Wetland map, with 500 m regulatory buffer.

SECTION C: PUBLIC PARTICIPATION

1. ADVERTISEMENT AND NOTICE

Publication name	Rustenburg Herald	
Date published	23 May 2018 and 8 June 2018	
Site notice position	Latitude	Longitude
	25°30'18.47"S	27° 5'54.24"E
	25°29'51.21"S	27° 6'10.77"E
Date placed	4 April 2018	
Please refer to Appendix E for proof of placement of the site notice and publication of the advertisements.		

2. DETERMINATION OF APPROPRIATE MEASURES

Key stakeholders (other than organs of state) identified in terms of Regulation 41(2)(b) of GN 733

Title, Name and Surname	Affiliation/ key stakeholder status	Contact details (tel number or e-mail address)
A full I&AP list can be viewed in Appendix E of this report.		
<p>In order to inform the public of the proposed project and to invite members of the public to register as Interested and Affected Parties (I&APs), the proposed project was advertised in the Rustenburg Herald on 23 May 2018 and 8 June 2018. A site notice was placed at the site and Background Information Documents (BIDs) distributed to the landowners, surrounding landowners and other identified I&APs via email. Initial notification emails were sent to relevant parties on 27 April 2018 and additional emails were sent on 25 May 2018 to inform registered I&APs and the relevant authorities of the availability of the Draft Basic Assessment Report (DBAR) for public review.</p>		

3. ISSUES RAISED BY INTERESTED AND AFFECTED PARTIES

Please refer to Appendix E for a summary of the issues raised and the EAP response.

4. COMMENTS AND RESPONSE REPORT

Please refer to Appendix E for a summary of the issues raised and the EAP response.

5. AUTHORITY PARTICIPATION

A full I&AP list can be viewed in Appendix E of this report together with proof of notification of Organs of State.

6. CONSULTATION WITH OTHER STAKEHOLDERS

A full I&AP list can be viewed in Appendix E of this report with proof of notification of Organs of State. Two (2) public meetings were held during the public review period. An initial meeting was held at the Mogwase Community Hall, Unit 1 Park, Mogwase (25°16'21.54"S, 27°13'14.95"E), on 6 June 2018, at 12h30. A second meeting was held at the Caucus Room, Community Development Civic Centre, 1 Kloof Street, Rustenburg (25°40'57.09"S, 27°14'57.86"E), on 13 June 2018, at 12h30. At both meetings there were no attendants apart from the proponent (Transnet).

SECTION D: IMPACT ASSESSMENT

1. IMPACTS THAT MAY RESULT FROM THE PLANNING AND DESIGN, CONSTRUCTION, OPERATIONAL, DECOMMISSIONING AND CLOSURE PHASES AS WELL AS PROPOSED MANAGEMENT OF IDENTIFIED IMPACTS AND PROPOSED MITIGATION MEASURES

A summary of the identified impacts, the proposed mitigation measures and the significance of the impacts (before and after mitigation measures are implemented) is provided below. For a detailed impact assessment and associated methodology, please refer to Appendix F.

Activity	Impact summary	Significance	Proposed mitigation
Alternative 1 (preferred alternative)			
<i>Planning and Design Phase</i>			
Activities associated with the design and pre- construction phase pertains mostly to planning and design around the proposed development, and is done at a desktop level. In some cases, site visits need to take place but the impact of these visits is negligible, if any, e.g. photographs, GPS point's etc.			
<i>Construction Phase</i>			
Construction of the proposed Boshhoek railway loop	<p><u>Impact 1: Loss of Natural Vegetation</u> Cause and Comment: During the construction phase the clearing of natural vegetation outside the approved development footprint will lead to the unnecessary loss of natural vegetation and habitat for other taxonomic groups.</p>	<p>Before Mitigation: MOD –</p> <p>After Mitigation: LOW –</p>	<ul style="list-style-type: none"> • The construction footprint must be surveyed and demarcated prior to construction commencing. • No construction activities will be allowed outside the demarcated footprint. • Where vegetation has been cleared, site rehabilitation in terms of soil stabilisation and vegetation must be undertaken. • Cleared vegetation must not be piled on top of natural vegetation but must be stockpiled temporarily on bare ground and used as ground cover during rehabilitation. Alternatively, the cleared vegetation can be given to local residents as a source of firewood.
	<p><u>Impact 2: Loss of SCC</u> Cause and Comment: During the construction phase the clearing of natural vegetation will lead to the destruction of</p>	<p>Before Mitigation: MOD –</p>	<ul style="list-style-type: none"> • All areas that will be impacted must be surveyed and demarcated by a suitably qualified specialist prior to vegetation and topsoil removal in order to locate and

BASIC ASSESSMENT REPORT

Activity	Impact summary	Significance	Proposed mitigation
	habitats and identified and unidentified plant and animal SCC.	After Mitigation: LOW –	rescue any SCC within the area and relocate them. <ul style="list-style-type: none"> • The contractor’s staff must not poach or trap wild animals. • The contractor’s staff must not harvest any natural vegetation.
	<p><u>Impact 3: Rehabilitation of Disturbed Areas</u> Cause and Comment: During the construction phase poor rehabilitation of disturbed areas may lead to the permanent degradation of ecosystems as well as allow alien vegetation species to expand.</p>	<p>Before Mitigation: MOD –</p> <p>After Mitigation: LOW –</p>	<ul style="list-style-type: none"> • All temporarily impacted areas must be rehabilitated with indigenous vegetation as soon as construction in the particular area or phase of work is complete, i.e. rehabilitation is on-going throughout construction. • Restoration must be conducted as per the approved Rehabilitation Management Plan. • Only topsoil from the development site, which has been appropriately stored, must be used for rehabilitation.
	<p><u>Impact 4: Control of Alien Species</u> Cause and Comment: During the construction phase the removal of natural vegetation creates ‘open’ habitats that will favour the establishment of undesirable alien plant species in areas that are typically very difficult to eradicate and may pose a threat to neighbouring natural ecosystems.</p>	<p>Before Mitigation: MOD –</p> <p>After Mitigation: LOW –</p>	<ul style="list-style-type: none"> • The approved Alien Vegetation Management Plan must be implemented during the construction phase to reduce the establishment and spread of undesirable alien plant species. • Alien plants must be removed from the site through appropriate methods such as hand pulling, application of chemicals, cutting, etc. as in accordance to the NEMBA: Alien Invasive Species Regulations.
	<p><u>Impact 5: Material Stockpiling</u> Cause and Comment: During the construction phase stockpiling of construction material within 50 m of a watercourse / wetland could result in erosion and mobilisation of the materials into these systems, resulting in sedimentation and a decrease in water quality and aquatic habitat.</p>	<p>Before Mitigation: MOD –</p> <p>After Mitigation: LOW –</p>	<ul style="list-style-type: none"> • No construction material must be stored within 50 m of a watercourse. • Stockpiles within 100 m of watercourses must be monitored for erosion and mobilisation of materials towards watercourses. If this is noted by an ECO, suitable cut-off drains or berms must be placed between the stockpile area and the nearest watercourse.

BASIC ASSESSMENT REPORT

Activity	Impact summary	Significance	Proposed mitigation
	<p><u>Impact 6: Water Contamination (Cement / Concrete Material)</u> Cause and Comment: During the construction phase, accidental contamination of wet concrete (highly alkaline) in the rivers/wetland systems could result in mortality of macro-invertebrates and fish species that may be present.</p>	<p>Before Mitigation: MOD –</p> <p>After Mitigation: LOW –</p>	<ul style="list-style-type: none"> • During the construction phase no concrete mixing must take place within 32 m of any river bank or wetland system. • A serviced fire extinguisher (to neutralise pH levels if a spill occurs) must be available on site in the event that wet concrete is accidentally spilled into the river. • The mitigation measures in Appendix B (concrete mixing) must be used in conjunction with this report.
	<p><u>Impact 7: Water Contamination (Chemical Spills, sewage etc.)</u> Cause and Comment: During the construction phase, accidental chemical spills or other spills (sewage, etc.) in the vicinity of the rivers/wetlands will result in water pollution, adversely affecting the aquatic ecosystem.</p>	<p>Before Mitigation: HIGH –</p> <p>After Mitigation: LOW –</p>	<ul style="list-style-type: none"> • During the construction phase no machinery must be parked overnight within 50 m of the rivers/wetlands. • All stationary machinery must be equipped with a drip tray to retain any oil leaks. • Chemicals used for construction must be stored safely on bunded surfaces in the construction site camp. • Emergency plans must be in place in case of spillages onto road surfaces or within water courses. • No ablution facilities may be located within 50 m of any river or wetland system. • Chemical toilets must be regularly maintained/serviced to prevent ground or surface water pollution.
	<p><u>Impact 8: Stormwater Management</u> Cause and Comment: During the construction phase the inappropriate routing of stormwater will lead to stream sedimentation, adversely affecting the aquatic environment.</p>	<p>Before Mitigation: MOD –</p> <p>After Mitigation: LOW –</p>	<ul style="list-style-type: none"> • Flood attenuation and storm water management plans must be drawn up and implemented. • An Erosion and Sediment Management Plan must be developed and implemented to minimize the ingress of sediment-laden stormwater into the rivers/ wetlands.
	<p><u>Impact 9: Riparian Vegetation (River)</u> Cause and Comment: During the construction phase, the removal of</p>	<p>Before Mitigation:</p>	<ul style="list-style-type: none"> • During the construction phase all riparian vegetation removal must take place under supervision of the

BASIC ASSESSMENT REPORT

Activity	Impact summary	Significance	Proposed mitigation
	sensitive riparian vegetation for road/bridge widening and upgrading of culverts will adversely affect the aquatic environment (particularly if detours are used when widening bridges).	MOD – After Mitigation: LOW –	Environmental Control Officer (ECO). <ul style="list-style-type: none"> • A Rehabilitation and Alien Vegetation Management Plan must be developed and implemented. • Banks must be artificially stabilized as soon as possible if significant riparian vegetation is removed.
	<p><u>Impact 10: Riparian Vegetation (Wetland)</u> Cause and Comment: During the construction phase, indiscriminate removal of riparian vegetation at water crossing sites, within wetlands or encroachment into surrounding areas could lead to destabilisation of bank structures and an increase in erosion rates.</p>	<p>Before Mitigation: HIGH –</p> <p>After Mitigation: LOW –</p>	<ul style="list-style-type: none"> • During the construction phase removal of riparian vegetation must take place under the supervision of the ECO. • Removal of the alien invasive vegetation must be prioritised. • Banks must be artificially stabilized as soon as possible if significant riparian vegetation is removed. • Vehicles and machinery must not encroach into areas outside/surrounding the road upgrade footprint.
	<p><u>Impact 11: Soil Compaction and Erosion</u> Cause and Comment: There is a possibility that soil may be compacted by the operation and parking of construction vehicles. Compacted soil results in the reduced ability for plant growth and water absorption. The clearing of vegetation will result in the exposure of soils. Exposed soils are easily susceptible to erosion by wind and water (i.e. run-off) during high wind or rainfall conditions.</p>	<p>Before Mitigation: MOD –</p> <p>After Mitigation: LOW –</p>	<ul style="list-style-type: none"> • Newly cleared and exposed areas must be promptly rehabilitated to avoid soil erosion; • Where necessary, temporary stabilization measures must be used; • Plan for the worst case, that is, for heavy rainfall and runoff events, or high winds; • Appropriate erosion control measures must be implemented and a monitoring programme established to ensure that no erosion is taking place. At the first sign of erosion the necessary remedial action must be taken; • Care must be taken to ensure that runoff is well dispersed so as to limit erosion.
	<p><u>Impact 12: Solid Waste Generation</u> Cause and Comment: It is anticipated that the proposed development will produce solid waste in the form of building</p>	<p>Before Mitigation: MOD –</p>	<ul style="list-style-type: none"> • Rubble and other construction waste produced must be re-used if possible and, where it is not possible, must be disposed of at the nearest registered waste

BASIC ASSESSMENT REPORT

Activity	Impact summary	Significance	Proposed mitigation
	<p>rubble, excavated soil, excess concrete and general waste, such as litter, during the construction phase.</p>	<p>After Mitigation: LOW –</p>	<p>disposal facility;</p> <ul style="list-style-type: none"> • Rubble, which will not be reused, must be removed from site on a regular basis; • If rubble is stored on site, it must be stored on designated portions of land away from any sensitive areas; • Litter must be controlled during construction – adequate bins must be made available on site at all times. These must be made scavenger and weather proof and must be emptied on a regular basis; • Construction materials stored at the site camp must be secured – i.e. plastics must be covered to prevent being blown off site; • The construction area must remain litter free and regular inspections for litter must be conducted. The activity must not contribute to any surrounding windblown litter; • Waste skips must be covered and emptied regularly; • Waste manifests must be provided by the Contractor to prove legal disposal; • Empty cement bags must be kept in sealed waste containers; • Waste must not to be buried or burned.

BASIC ASSESSMENT REPORT

Activity	Impact summary	Significance	Proposed mitigation
	<p><u>Impact 13: Impacts on Cultural Heritage, Archaeology and Palaeontology</u> Cause and Comment: During the construction phase, features of cultural heritage, archaeological or paleontological importance may be damaged or destroyed. The railway bridge, five (5) box culverts and a burial site, which date back to the Late Historical Period, have been identified as significant elements in terms of the National Heritage Resources Act. Please refer to Archaeological Impact Assessment included in Appendix D.</p>	<p>Before Mitigation: MOD –</p> <p>After Mitigation: LOW –</p>	<ul style="list-style-type: none"> • Please refer to the Archaeological Impact Assessment included in Appendix D for detailed management and mitigation measures; • Should any additional archaeological or cultural sites or objects be located during the construction of the proposed project, it must immediately be reported to the South African Heritage Resources Agency (SAHRA). Failure to report a site or object of archaeological and/or cultural significance is a contravention of the National Heritage Act (Act No. 25 of 1999); • All construction site staff must be briefed to immediately report any sites or objects, which are located during the construction of the facility. In the event of finding what appears to be an archaeological site or a cultural and/or historic site or object, work must be terminated until a qualified archaeologist or historian can examine the item.
	<p><u>Impact 14: Air Pollution</u> Cause and Comment: During construction, dust may be generated, especially where there is exposed ground. Specific activities that may contribute to the release of dust include offloading and stockpiling of building materials such as sand, storage of excavated materials and movement of heavy vehicles. The generation of dust may be exacerbated during windy, dry periods. In addition to dust, air pollution may result from the exhaust fumes emitted by construction vehicles, especially if the vehicles have not been serviced correctly.</p>	<p>Before Mitigation: MOD –</p> <p>After Mitigation: LOW –</p>	<ul style="list-style-type: none"> • Topsoil must be cleared in a phased manner to avoid large areas of bare ground; • Employ dust suppression measures such as wetting of the project area during dry, windy periods (Only water from a licensed source will be used); • Where practical, do not leave large cleared areas exposed for longer than necessary; • The area of disturbance must be kept to a minimum at all times; • Vehicle speed must be limited to the lowest possible, and must not exceed 30km/h on the construction site, service road or gravel roads used to access the site

BASIC ASSESSMENT REPORT

Activity	Impact summary	Significance	Proposed mitigation
			camp. <ul style="list-style-type: none"> • Construction vehicles must be regularly maintained in order to ensure that no unnecessary exhaust fumes are being emitted.
	<p><u>Impact 15: Noise</u> Cause and Comment: Construction activities are associated with an increase in noise levels as a result of construction vehicles, plant generators and various other equipment being used on site. While these activities will produce noise, it is unlikely to have a significant impact on the surrounding area which includes an existing railway station as well as the Boshhoek Smelter.</p>	<p>Before Mitigation: LOW –</p> <p>After Mitigation: Negligible</p>	<ul style="list-style-type: none"> • No construction activities may take place between sunset and sunrise; • Machinery that generates noise must be regularly maintained in order to ensure that no unnecessary additional noise is produced; • Equipment with lower sound levels must be selected where feasible.
	<p><u>Impact 16: Visual Impacts</u> Cause and Comment: Construction vehicles and equipment will be evident in the existing landscape. Generation of dust will increase the visibility of the project and may become an eyesore if not managed correctly.</p>	<p>Before Mitigation: LOW –</p> <p>After Mitigation: Negligible</p>	<ul style="list-style-type: none"> • Employ techniques to suppress dust and smoke generation during construction; • The contractor must maintain good housekeeping on site to avoid litter and minimise waste; • Night lighting of the construction sites must be minimised within requirements of safety and efficiency of the Environmental Regulations for Workplaces in terms of the Occupational Health and Safety Act (Act No. 85 of 1993); • Fires and fire hazards need to be managed appropriately.
	<p><u>Impact 17: Traffic Impacts</u> Cause and Comment: During the construction phase of the proposed development, construction vehicles will be utilizing the existing road network. This may result in the impeding of traffic and damage to existing</p>	<p>Before Mitigation: LOW –</p> <p>After</p>	<ul style="list-style-type: none"> • Large construction vehicles must not be permitted to utilize public roads during peak hours (AM: 06:30 – 08:30 and PM: 16:00 – 18:30); • Any damage to public roads directly caused by large construction vehicles operating on this project must be

BASIC ASSESSMENT REPORT

Activity	Impact summary	Significance	Proposed mitigation
	roads.	Mitigation: Negligible	repaired immediately.
	<p><u>Impact 18: Health and Safety Risks</u> The use of construction machinery during the construction phase poses a potential risk to the health and safety of people working at the construction site as well as to commuters passing the site. The movement of construction vehicles also increases the risk of road accidents. The risk of accidents, fires and explosions must be mitigated effectively.</p>	<p>Before Mitigation: MOD –</p> <p>After Mitigation: LOW –</p>	<ul style="list-style-type: none"> • All relevant Health and Safety legislation as required in South Africa must be strictly adhered to, including but not limited to the Occupational Health and Safety Act, 1993 (No. 85 of 1993); • Smoking must be prohibited in the vicinity of flammable substances; • Any welding or other sources of heating of materials must be done in a controlled environment and under appropriate supervision; • Ensure availability of fire extinguishers; • All employees must be aware of emergency/ contingency plans to ensure an understanding of the hazards and procedures required during an emergency situation; • An emergency preparedness and response plan must be implemented for the duration of construction; • Records of environmental and/or health and safety related incidents must be maintained and communicated to the relevant persons; • The Contractor shall ensure that signage, which must be pictorial and in the vernacular, is erected to warn against entering the construction area; • Traffic calming and speed control measures for access to construction sites shall be instigated in consultation with the local authorities.
	<p><u>Impact 19: Employment Creation</u> Cause and Comment: The construction phase of the proposed development will create a number of temporary jobs for locals within the area.</p>	MOD +	None required

BASIC ASSESSMENT REPORT

	<p><u>Impact 20: Purchasing of Materials from Local Businesses</u> Cause and Comment: Where possible, materials will be sourced from local businesses and this will result in a boost of the local economy of the immediate vicinity and surrounding areas.</p>	MOD +	None required
Operational Phase			
Operation of the proposed Boshhoek railway loop	<p><u>Impact 21: Rehabilitation of disturbed areas</u> Cause and Comment: During the Operational Phase, poor rehabilitation of disturbed areas may lead to the permanent degradation of ecosystems as well as allow alien vegetation species to expand.</p>	<p>Before Mitigation: MOD –</p> <p>After Mitigation: LOW –</p>	<ul style="list-style-type: none"> • All cleared areas must be continuously rehabilitated with indigenous vegetation post-establishment. • The site will be considered as rehabilitated when 75% or more of the impacted areas are covered by primary growth (grasses and/or scrubs)
	<p><u>Impact 22: Invasion of Alien Species</u> Cause and Comment: During the operational phase the loss of natural vegetation will increase the potential invasion by alien plant species. This, coupled with the lack of implementation of the Alien Vegetation Management Plan may result in large scale alien plant invasion.</p>	<p>Before Mitigation: MOD –</p> <p>After Mitigation: LOW –</p>	<ul style="list-style-type: none"> • The approved Alien Vegetation Management Plan must be implemented during the operational phase to reduce the establishment and spread of undesirable alien plant species. • Alien plants must be removed through appropriate methods such as hand pulling, application of chemicals, cutting, etc. as in accordance to the NEMBA: Alien Invasive Species Regulations.
	<p><u>Impact 23: Hazardous Waste Generation</u> Cause and Comment: Hazardous waste is likely to occur as a result of an increased number of trains passing through the area on a weekly basis. Due to the nature of a freight railway line, leaking oil or fuel may enter or flow into the adjacent areas. In addition to this, operations of a siding include the temporary</p>	<p>Before Mitigation: HIGH –</p> <p>After Mitigation: LOW –</p>	<ul style="list-style-type: none"> • Hazardous substances must be disposed of at an appropriate classified waste site (unless it is to be recycled by approved methods), as per the National Environmental Management Waste Act 59 of 2008; • All contaminated spill fighting material such as fibres, soil, sandbags, etc. must be disposed of in an appropriate hazardous waste landfill site. Proof of this

BASIC ASSESSMENT REPORT

	<p>storage of moderate quantities of dangerous goods, which, if not properly stored and contained, may accumulate and result in hazardous waste entering the surrounding environment.</p>		<p>must be made available upon request;</p> <ul style="list-style-type: none"> The transportation, handling and storage of hazardous and flammable substances must comply with all the provisions of the Hazardous Substances Act 1973, (Act No. 15 of 1973) associated regulations as well as a SANS 10228 and SANS 10089 codes.
	<p><u>Impact 24: Increased Stormwater Runoff and Erosion Potential</u> Cause and Comment: The proposed development will consist of more impervious surfaces than what currently exists on site and this will result in increased runoff and potentially increased erosion.</p>	<p>Before Mitigation: MOD –</p> <p>After Mitigation: LOW –</p>	<ul style="list-style-type: none"> A site-specific stormwater management plan must be implemented to manage the increased stormwater runoff; Storm-water structures need to be implemented as part of the development and must link up with the current storm-water infrastructure in order to navigate stormwater and minimise soil erosion; At the first signs of erosion, the correct procedures must be undertaken to manage, resolve and prevent it from occurring.
	<p><u>Impact 25: Noise</u> Cause and Comment: The operation of a railway loop in the area may result in a slight noise increase due to a higher number of trains passing through the area. The overall noise level should not be any more than what is currently experienced on site.</p>	<p>Before Mitigation: LOW –</p> <p>After Mitigation: Negligible</p>	<ul style="list-style-type: none"> The siding infrastructure must be well maintained in order to avoid unnecessary noise produced near the site; The Rustenburg Local Municipality by-laws relating to noise must be adherer to at all times.
	<p><u>Impact 26: Traffic Impacts</u> Cause and Comment: The operation of the proposed railway loop will allow for additional use of the Waterberg railway line. This could result in an increase in potential accidents in along the line however, this is unlikely. With the correct management of railway traffic, the proposed railway loop will prevent</p>	<p>Before Mitigation: LOW –</p> <p>After Mitigation: MOD +</p>	<ul style="list-style-type: none"> The proposed railway loop must be operated in line with the relevant Transnet rail standards and train schedules.

BASIC ASSESSMENT REPORT

	delays along the railway route and will have an overall positive impact on railway traffic.		
	<p>Impact 27: Health and Safety Risks</p> <p>The operation of a railway siding poses a potential fire and explosion risk due to the storage of a number of potentially dangerous goods. In addition to this, health and safety risks occur with regards to onsite train arrivals and departures.</p>	<p>Before Mitigation: HIGH –</p> <p>After Mitigation: LOW –</p>	<ul style="list-style-type: none"> • All relevant Health and Safety legislation as required in South Africa must be strictly adhered to, including but not limited to the Occupational Health and Safety Act, 1993 (No. 85 of 1993); • Smoking must be prohibited in the vicinity of flammable substances; • Ensure availability of fire extinguishers; • An emergency preparedness and response plan must be implemented for the operational phase;
	<p>Impact 28: Economic Benefits</p> <p>Cause and Comment:</p> <p>The railway loop will contribute to increasing, amongst others, the coal-carrying capacity of the Waterberg railway line. This will contribute to the overall transport and delivery of economically valuable goods and facilitate a positive influence on the Gross Domestic Product.</p>	HIGH +	None required
Decommissioning Phase			
At this stage it is unclear whether the proposed project will be decommissioned. Should decommissioning be required, the impacts would be similar to those listed for the construction phase.			

Activity	Impact summary	Significance	Proposed mitigation
No-Go Alternative			
NB: This identifies and rates the impacts associated with the status quo of the study area. The location of the proposed development within an existing railway servitude, together with the pressure placed on the existing capacity of the railway line, has negative impacts which are currently relevant. The impacts associated with No-Go Alternative are provided in Appendix F (Impact Assessment).			

A complete impact assessment in terms of Regulation 19(3) of GN 982 must be included as Appendix F.

Please refer to Appendix F for a detailed impact assessment.

2. ENVIRONMENTAL IMPACT STATEMENT

The table below shows the significance of the impacts before and after mitigation is taken into account together with the impact of the No-Go alternative:

IMPACT	WITHOUT MITIGATION	WITH MITIGATION	NO-GO
<i>Construction Phase</i>			
1. Loss of Natural Vegetation	MOD –	LOW –	N/A
2. Loss of SCC	MOD –	LOW –	N/A
3. Rehabilitation of Disturbed Areas	MOD –	LOW –	MOD –
4. Control of Alien Species	MOD –	LOW –	MOD –
5. Material Stockpiling	MOD –	LOW –	N/A
6. Water Contamination (Cement / Concrete Material)	MOD –	LOW –	MOD –
7. Water Contamination (Chemical Spills, sewage etc.)	HIGH –	LOW –	MOD –
8. Stormwater management	MOD –	LOW –	LOW –
9. Riparian vegetation (river)	MOD –	LOW –	N/A
10. Riparian vegetation (wetland)	MOD –	LOW –	N/A
11. Soil Compaction and Erosion	MOD –	LOW –	LOW –
12. Solid Waste Generation	MOD –	LOW –	LOW –
13. Impacts on Cultural Heritage, Archaeology and Palaeontology	MOD –	LOW –	LOW –
14. Air Pollution	MOD –	LOW –	LOW –
15. Noise	LOW –	Negligible	LOW –
16. Visual Impacts	LOW –	Negligible	N/A
17. Traffic Impacts	MOD –	LOW –	LOW –
18. Health and Safety Risks	MOD –	LOW –	N/A
19. Employment Creation	MOD +	MOD +	LOW –
20. Purchasing of Materials from Local Businesses	MOD +	MOD +	LOW –
<i>Operational Phase</i>			
21. Rehabilitation of disturbed areas	MOD –	LOW –	MOD –
22. Invasion of Alien Species	MOD –	LOW –	MOD –
23. Hazardous Waste Generation	HIGH –	LOW –	N/A
24. Increased Stormwater Runoff and Erosion Potential	MOD –	LOW –	MOD –
25. Noise	MOD –	LOW –	LOW –
26. Traffic Impacts	MOD –	LOW –	LOW –
27. Health and Safety Risks	HIGH –	LOW –	N/A
28. Economic Benefits	HIGH +	HIGH +	HIGH –

Alternative A (preferred alternative)

Twenty-eight (28) impacts have been identified as a result of the preferred and only alternative for the proposed project. This consists of 20 construction phase impacts and 8 operational phase impacts. Without mitigation, there will be 3 negative impacts of high significance, 20 of moderate significance and 2 of low significance. There will also be 1 positive impact of high significance and 2 of moderate significance. With the implementation of mitigation measures, there will be 23 negative impacts of low significance and 2 negligible impacts. There will also be 1 positive impact of high significance and 2 of moderate significance which will result from the development. Although there are a greater number of negative impacts, the significance of the positive impacts outweighs the significance of the negative impacts. This is the only reasonable and feasible alternative considered in this application and, considering the result of the impact assessment, this preferred alternative is recommended.

No-go alternative (compulsory)

This alternative assumes that the status quo will remain unchanged and that there will be no railway loop constructed along the existing line. There will be no vegetation clearing required and the adjacent land will remain in its natural state. However, under the No-go alternative, the absence of the railway loop would result in the continuation of increased rail congestion and delays in the transport of important commodities such as coal, chrome, iron ore, containers and general freight. There will be 1 negative impact of high significance, 7 of moderate significance and 11 of low significance. There are no positive impacts associated with the No-go alternative. For this reason, the No-go alternative is not recommended.

SECTION E. RECOMMENDATION OF 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)?

YES
✓

List of 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:

OPINION OF THE EAP:

It is the opinion of the EAP that no fatal flaws are associated with the proposed development and that all impacts can be adequately mitigated to reduce the risk or significance of impacts to an acceptable level. The significance of the benefits associated with the proposed development outweighs the significance of the negative aspects. It is the opinion of the EAP that this Basic Assessment Report contains sufficient information to allow the Department of Environmental Affairs (DEA) to make an informed decision. It is therefore recommended that the application for Environmental Authorisation should be approved on condition that the recommended mitigation measures stated herein are effectively implemented.

RECOMMENDATIONS OF THE EAP:

All mitigation measures, which have been outlined in this report as well as in the Environmental Management Programme (EMPr), must be fully adhered to. In addition, the following recommendations have been made:

Pre-Construction:

- The EMPr must form part of the contractor's tender documentation prior to appointment;
- Notice must be given to surrounding land owners and businesses informing them of the intended date of commencement of construction;

Construction Phase:

- An ECO must be employed to ensure that the construction activities remain within the designated area and that no unauthorised activities occur;
- The ECO must submit site audits detailing the applicant's compliance with the EMPr;
- An efficient stormwater management system must be implemented during construction;
- Workers must be educated on environmental management aspects;

Operational Phase:

- Health, Safety and Environmental monitoring must take place regularly and reports compiled on an annual basis.

Please refer to Appendix G for the Environmental Management Programme (EMPr).

Please refer to Appendix H for the relevant curriculum vitae of the EAP and the project participants as well as Appendix I for specialist's declaration of interest.

SECTION F: APPENDIXES

The following appendixes must be attached:

Appendix A: Maps

Appendix B: Photographs

Appendix C: Facility illustration(s)

Appendix D: Specialist reports (including terms of reference)

Appendix E: Public Participation

Appendix F: Impact Assessment

Appendix G: Environmental Management Programme (EMPr)

Appendix H: Details of EAP and expertise

Appendix I: Specialist's declaration of interest

Appendix J: Additional Information

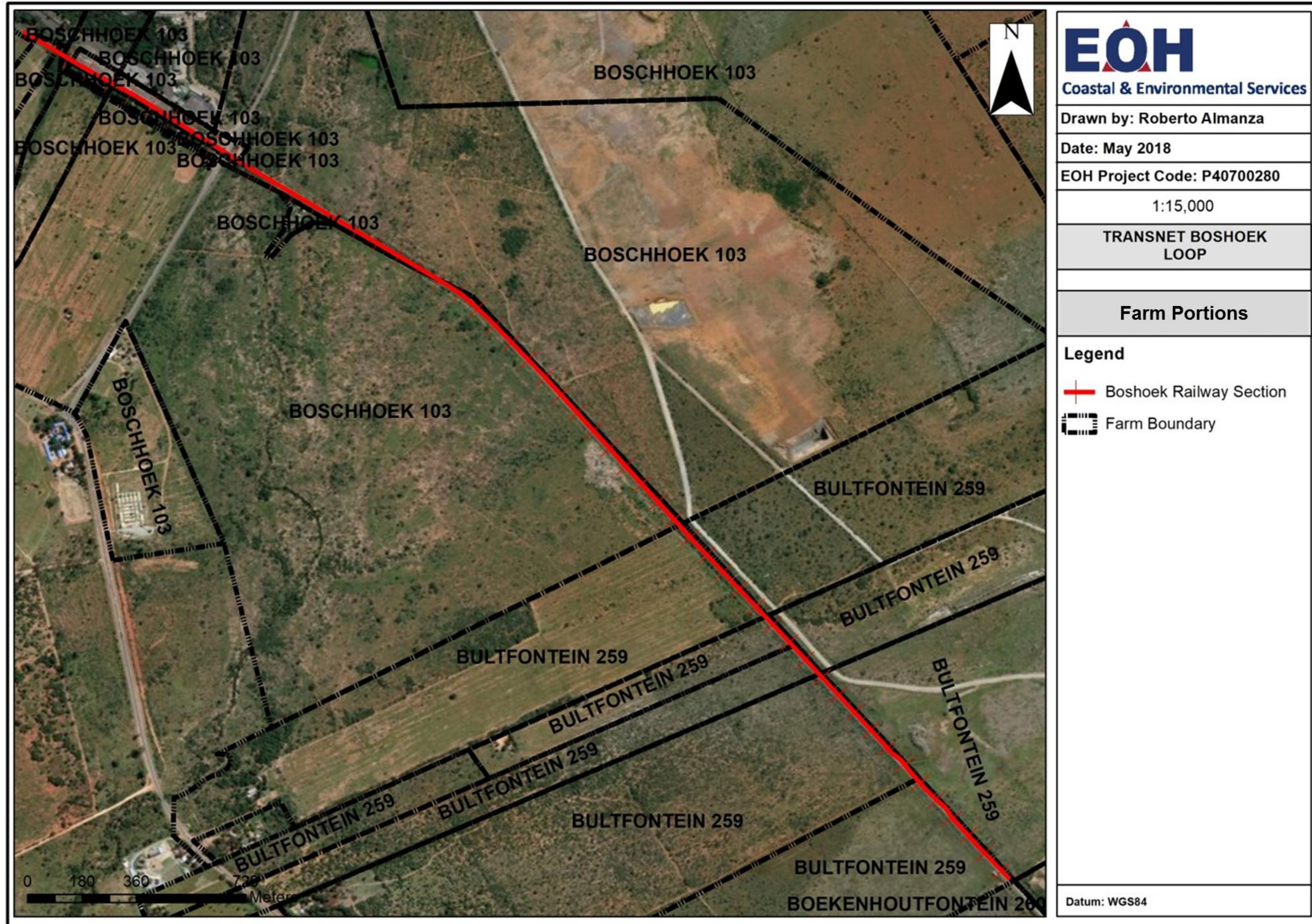
APPENDIX A

MAPS

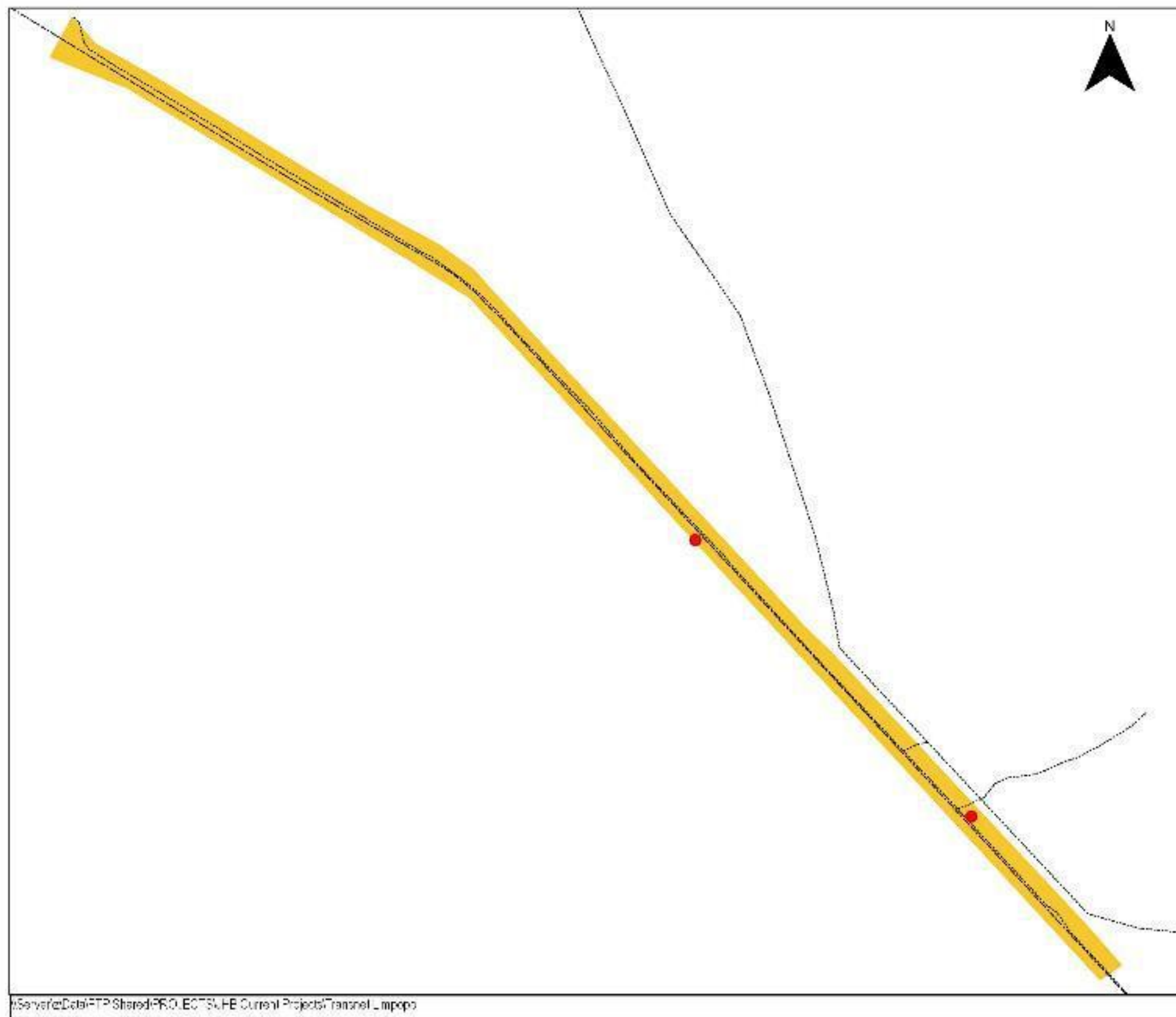
LOCALITY MAP







PROPERTY MAP



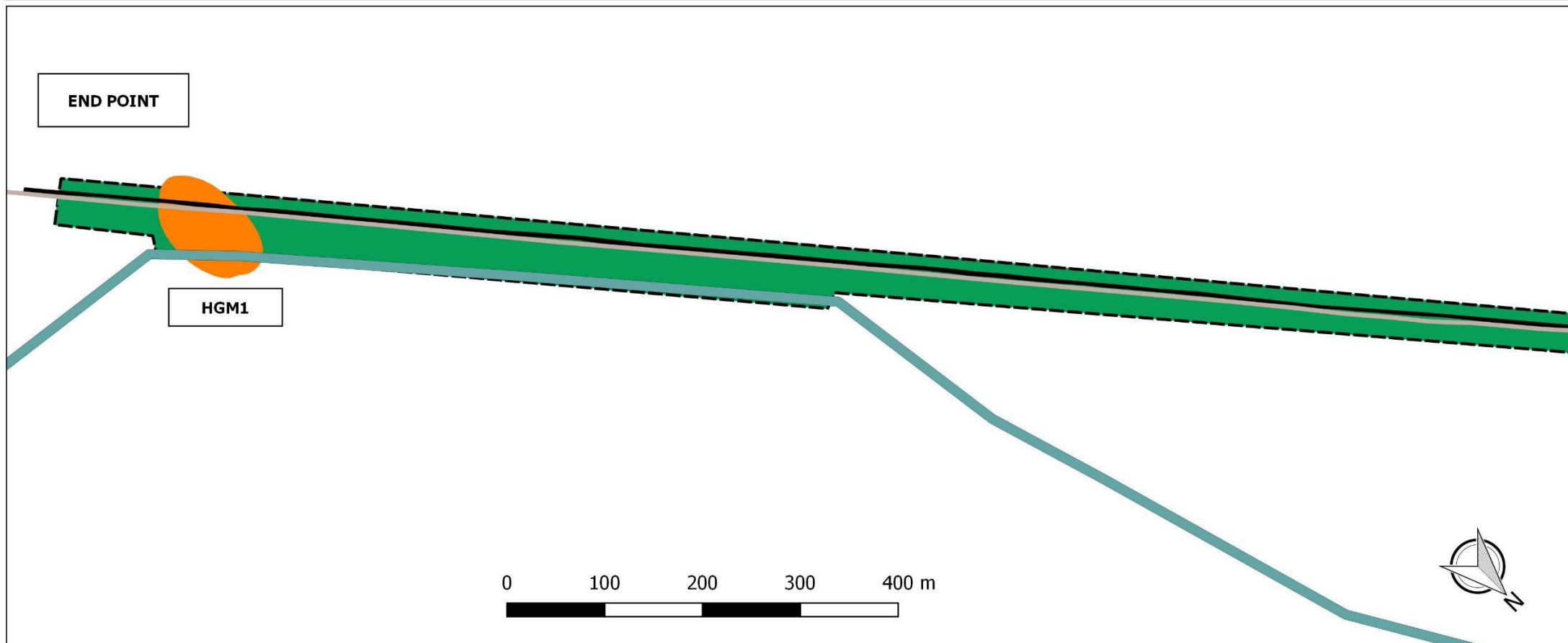
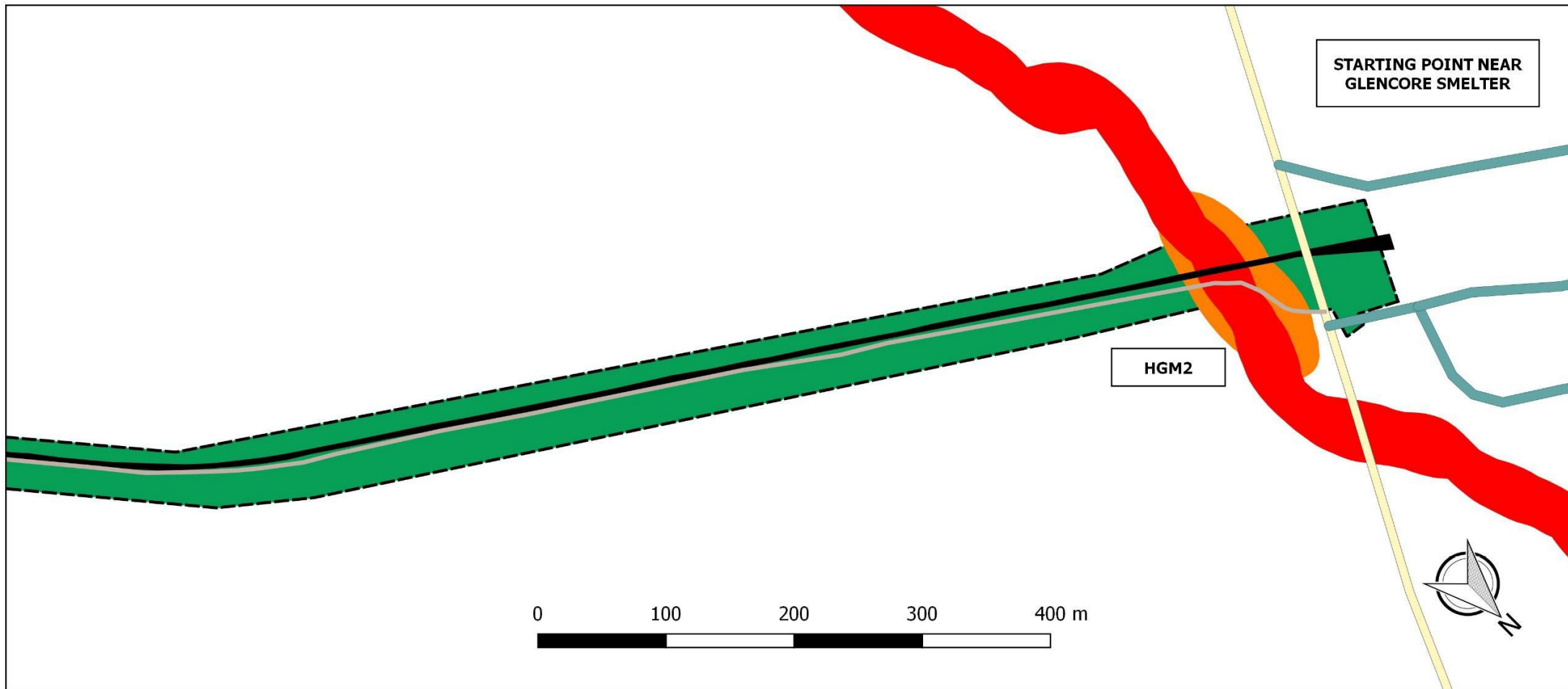
ECOLOGICAL SENSITIVITY MAP



\\Server\c>Data\FTP Shared\PRO.ECTS\HE Current Projects\Transnet Limpopo

 Coastal and Environmental Services	
Drawn by: Roy de Kock	
Date: April 2018	
EOH Project Code: P40700239	
1:7 000	
TITLE	
Sensitivity Map	
PROJECT	
Boshhoek Loop Ecological Assessment	
Legend --- Railway lines - - - Gravel roads  High sensitivity  Moderate sensitivity	
Datum: WGS84	
Produced for 	

AQUATIC SENSITIVITY MAP



EOH
Coastal & Environmental Services

Drawn by: Gideon Raath

Date: April 2018

EOH project code: P280

1:418 592 83

Transnet Boshhoek Sensitivity map

Transnet SOC Ltd

Legend

- Existing Rail
- HIGH Sensitivity
- MODERATE Sensitivity
- LOW Sensitivity

Roads (LOW Sensitivity)





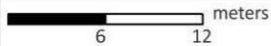


- Primary
- Private
- Secondary
- Service Road
- Project Area Boundary

Datum: WGS84

Produced for:
Transnet SOC Ltd

HERITAGE SENSITIVITY MAP

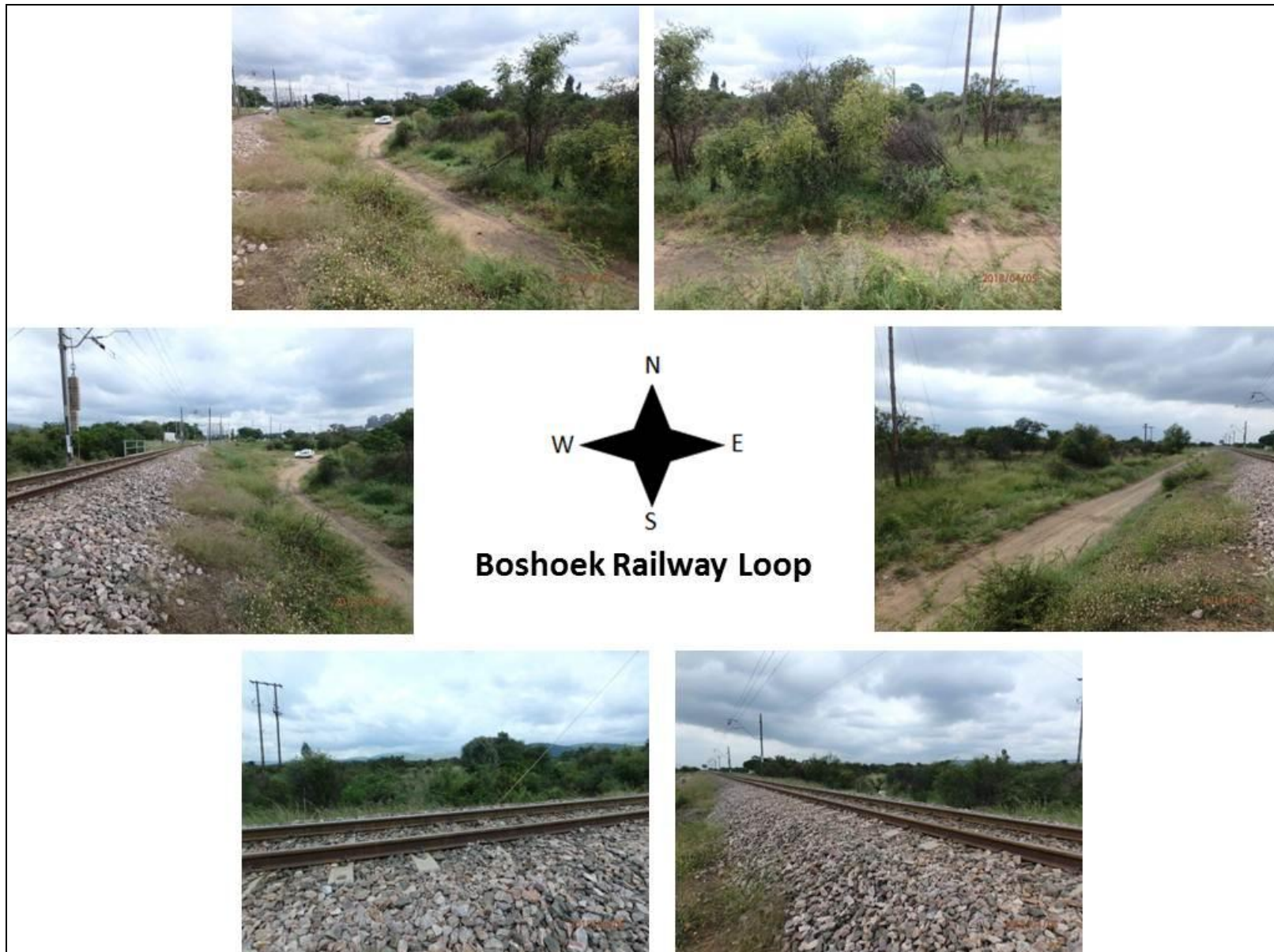


Transnet Boshhoek Railway Loop Project Heritage Buffer Map	
LEGEND	
	50m conservation buffer
	10m conservation buffer
	Project Infrastructure
	Grave (EXIGO-THL-BP01)
Client: AGES Limpopo	
 6 12 meters	
 Eulophia Corner Building 1 38 Gen Van Reyneveld St Perseus Park Pretoria 0020 Tel: +27 12 751 2160 Fax: +27 86 607 2406	
Project Transnet Boshhoek Railway Loop Project	
Date 2018-05-09	
Compiled by N. Kruger	Version 1
Datum WGS 84	Projection
 N	

APPENDIX B

PHOTOGRAPHS

SITE PHOTOS





Proposed laydown area for the proposed Boshhoek Railway Loop (facing East).



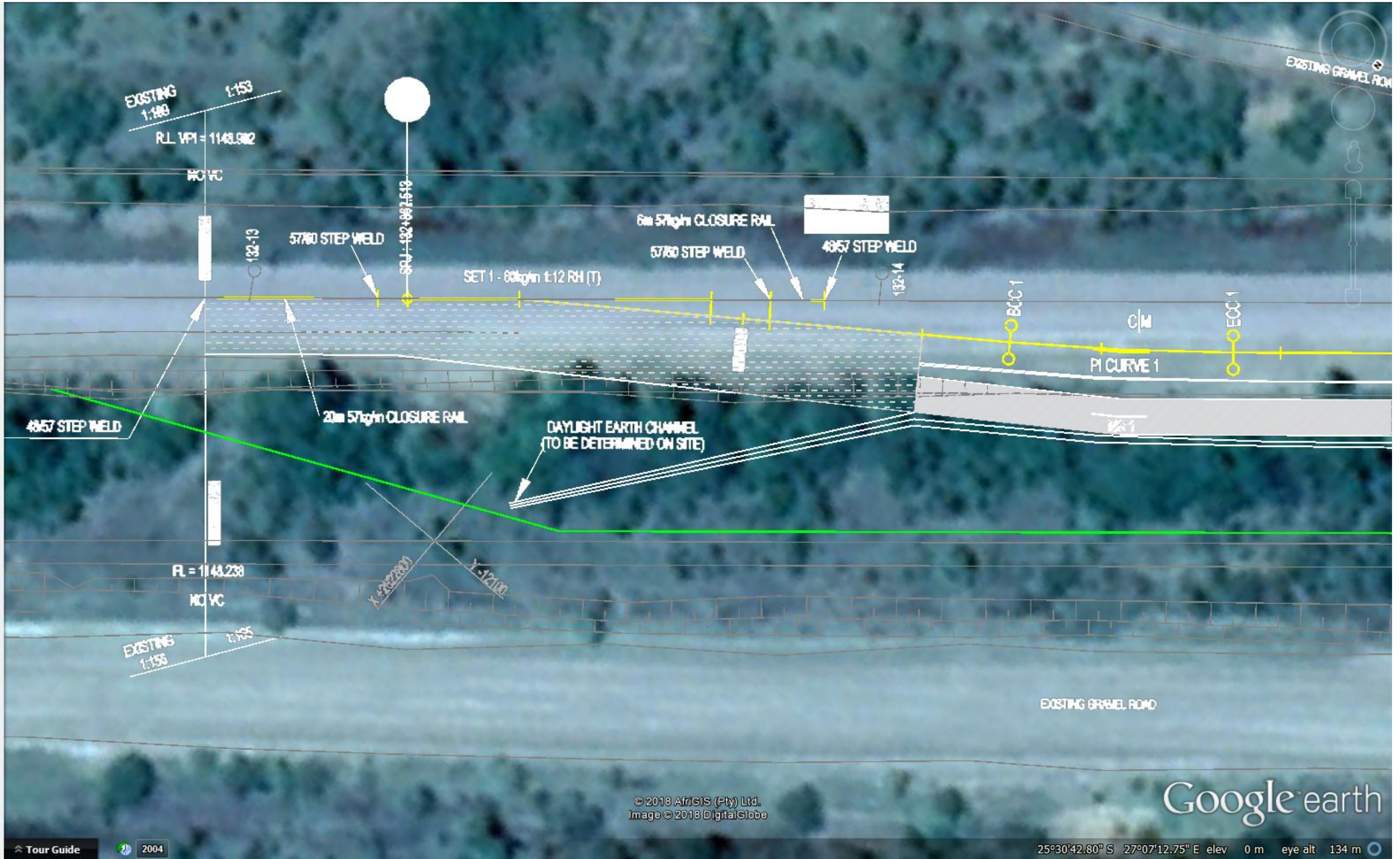
Proposed laydown area for the proposed Boshhoek Railway Loop (facing West).

APPENDIX C

FACILITY ILLUSTRATIONS

DESIGN/LAYOUT DRAWING





APPENDIX D

SPECIALIST REPORTS

APPENDIX E

PUBLIC PARTICIPATION

PROOF OF ADVERTISEMENTS

Site Notice:



Site notice placed at the the entrance to the Boshhoek Smelter.



Site notice placed near the existing railway line.

25 MEI 2018

RUSTENBURG HERALD - EIENDOMME

BLADSY 5

6Z
WOONSTELLE TE HUUR/FLATS TO LET/

CHRISTEN SAKEMANNE
Ons vergader elke Vrydagoggend om 6:00 by RHS Klub 500 Lapa. **Sien jou daar!**

BODORP Ruim 3 slaapkamers, 2 badkamers, slaapkamer, aparte oeskamer, laundry, carpets plus 2 x slaapkamer. Pieter R1 450 000. Pieter 082-672-6248

BOTEKONG Ext 1, R399 000. Very close to Botekong Mall newly renovated 2 bedroom house with big stand. Pieter 082-465-4484.

LOVELY three bedroom, two bathroom family home in Herivior Lifestyle Estate. Established garden, swimming pool, stand has direct access to the park area, tennis courts and outdoor gym of the estate. Price R1 100 000. Contact Monique at 0730808323 for details.

PAARDEKRAAL Ext 3 R395 000. Very big 2 bedroom house with fitted kitchen, dining room, lounge, full bathroom, heater fully tiled, paving. Big yard fenced. Pieter 082-465-4484.

PRIVATE Sale/Koop. Cashan Nyivier Avenue, ultra-modern and very big 3 bedroom Tuscan style house for sale. Big modern kitchen with scullery, lounge, dining room, study, entertainment area with braai and patio, double garage, rice garden, alarm, 4 x aircons. Trefluis, very big bargain at R1 790 000. Property is valued at R2 400 000. Owner 082-465-4484.

PROTEAPARK R1 490 000. 5-Slaapkamermeenthuis naby skole/steedsheid. Hea (Deyr Eendomme) 082-704-0055

R399000. Bargain of the year. 3 Bedrooms, 2 bathroom townhouse in secure complex in Midtown with outside room, toilet and lock-up garage. Pieter 082-465-4484.

RUSTENBURG East R595 000. All cost included, no deposit, very nice 3 bedroom house with 2 bathrooms, kitchen, dining room, lounge, single garage, carpet, nice garden. Pieter 082-465-4484.

RUSTENBURG North. No deposit. R495 000. Very nice newly renovated 3 bedroom house with kitchen, lounge, full bathroom, spacious yard, double carport. Pieter 082-465-4484.

RUSTENBURG North. No deposit. R495 000. Very nice newly renovated 3 bedroom house with kitchen, lounge, full bathroom, spacious yard, double carport. Pieter 082-465-4484.

10Z HUISE TE KOOP/ HOUSES FOR SALE/

CHRISTEN SAKEMANNE
Ons vergader elke Vrydagoggend om 6:00 by RHS Klub 500 Lapa. **Sien jou daar!**

10 HUISE TE KOOP/ HOUSES FOR SALE/

2 separate houses on this property which is in the village of Ollantsoke. One just outside Rustenburg. The Rustenburg Educational College just 300m away. The house has both electric and gas supply for cooking, washing, bathing etc. The property is enclosed with a 1.5m concrete wall with electric fencing on top and alarm, as well as 2 electronic controlled access gates. There is also a 16 channel CCTV system in place around the property. House 1 has 3 Bedrooms, 2 Bathrooms (1 with shower), Open plan Kitchen / Lounge, Air Conditioners and rooms with ceiling fans. Entertainment Lapa with Bar area leading off the veranda. Braai area next to the paddock enclosed Swimming Pool. 5 Vehicle covered parking area. Wendy House. 3 B.G.O. Big Stencrom House. 3 B.G.O. Bedroom and bathroom with Bath and Shower. Open plan Kitchen with Air Conditioner. Laundry. Thatched roof lounge off kitchen with Air Conditioner. Private 2 Vehicle parking area under shade-net. Private outside Braai area. R1 255 000.00 NEG. Contact Alec 0835643828

11 WOONSTELLE TE KOOP/FLATS FOR SALE/

WOONSTEL te koop, Santa Maria kompleks, Gronovoor, 3 slaapkamers, 2 badkamers, oopplan kombuis, 1 atskaf. R650 000. 082-778-0000

12 ERWE TE KOOP/ STANDS FOR SALE/

ERF te koop, Ollantsoke, 1000 m², 3 slaake weg van dam @ R550 000. 082-778-0000

BAIE gerieflike, ruim 4-slaapkamerhuis in Bodorp naby skool in Bodorp. 5 Slaapkamers, 2 badkamers, oeskamer, kombuis, TV-kamer en slaapkamer. Afskakel en atskopplek. was-kamer en bedstee-kamer en toilet. Baie lekker leefhuis, kort omtrentlikke busse stasie en werk, maar kan omskep word in 'n droomhuis. Baie goeie pry (Groot 'bargain'). Kontak W a l d e r C o e l i e s 07 072-6687313, 082-495-5587.

10 HUISE TE KOOP/ HOUSES FOR SALE/

CHRISTEN BUSINESSMEN
We meet every Friday morning at 6:00 @ RHS Club 500 Lapa. **Sien jou daar!**

BODORP Ruim 3 slaapkamers, 2 badkamers, slaapkamer, aparte oeskamer, laundry, carpets plus 2 x slaapkamer. Pieter R1 450 000. Pieter 082-672-6248

BOTEKONG Ext 1, R399 000. Very close to Botekong Mall newly renovated 2 bedroom house with big stand. Pieter 082-465-4484.

LOVELY three bedroom, two bathroom family home in Herivior Lifestyle Estate. Established garden, swimming pool, stand has direct access to the park area, tennis courts and outdoor gym of the estate. Price R1 100 000. Contact Monique at 0730808323 for details.

PAARDEKRAAL Ext 3 R395 000. Very big 2 bedroom house with fitted kitchen, dining room, lounge, full bathroom, heater fully tiled, paving. Big yard fenced. Pieter 082-465-4484.

PRIVATE Sale/Koop. Cashan Nyivier Avenue, ultra-modern and very big 3 bedroom Tuscan style house for sale. Big modern kitchen with scullery, lounge, dining room, study, entertainment area with braai and patio, double garage, rice garden, alarm, 4 x aircons. Trefluis, very big bargain at R1 790 000. Property is valued at R2 400 000. Owner 082-465-4484.

PROTEAPARK R1 490 000. 5-Slaapkamermeenthuis naby skole/steedsheid. Hea (Deyr Eendomme) 082-704-0055

R399000. Bargain of the year. 3 Bedrooms, 2 bathroom townhouse in secure complex in Midtown with outside room, toilet and lock-up garage. Pieter 082-465-4484.

RUSTENBURG East R595 000. All cost included, no deposit, very nice 3 bedroom house with 2 bathrooms, kitchen, dining room, lounge, single garage, carpet, nice garden. Pieter 082-465-4484.

RUSTENBURG North. No deposit. R495 000. Very nice newly renovated 3 bedroom house with kitchen, lounge, full bathroom, spacious yard, double carport. Pieter 082-465-4484.

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CHRISTEN SAKEMANNE
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11 WOONSTELLE TE KOOP/FLATS FOR SALE/

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12 ERWE TE KOOP/ STANDS FOR SALE/

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14Z BESIGHEDE TE KOOP/ BUSINESSES FOR SALE/

CHRISTEN BUSINESSMEN
We meet every Friday morning at 6:00 @ RHS Club 500 Lapa. **Sien jou daar!**

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24 VAKANSIE OORDE/ HOLIDAY RESORTS/

CHRISTEN BUSINESSMEN
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New visitors record at Nampo 2018

A new record number of visitors visited Grain SA's Nampo Harvest Day this year. A staggering 82 814 visitors visited the impressive agricultural trade show outside Bothaville from Tuesday 15 until Friday 18 May. At Nampo, producers and other role players in the agricultural industry experienced the latest technology and products on offer in the farming industry first-hand. Products and services on display by the more than 740 exhibitors, has established Nampo as a diversified trade exhibition, offering producers the opportunity to compare a wide variety of products and services. Nampo offered something for young and old this year. Look out for our Agri-Pulse in July for a view of the biggest agricultural trade show in the southern hemisphere through our camera lenses. Follow these links: <http://bit.ly/nampo2018nkwretail>, <http://bit.ly/nampo2018neighboursapp> and <http://bit.ly/nampo2018protek> for a few selected video clips of footage taken by our team at Nampo 2018!



NOTICE

TRANSNET SOC LTD PROPOSES THE EXPANSION OF RAILWAY LINES BY CONSTRUCTING A NEW LOOP AT THE BOSHOEK LINE, IN THE RUSTENBURG LOCAL MUNICIPALITY, AND AT THE HEYSTERKRAND LINE, IN THE MOSES KOTANE LOCAL MUNICIPALITY, NORTH-WEST PROVINCE.

ENVIRONMENTAL IMPACT ASSESSMENT: INCEPTION NOTICE AND PUBLIC REVIEW NOTICE OF THE DRAFT BASIC ASSESSMENT REPORTS AND ENVIRONMENTAL MANAGEMENT PROGRAMMES.

Notice is issued in terms of Regulation 41 of the Environmental Impact Assessment (EIA) Regulations, published in Government Notice No.326 in Government Gazette No.40772 of 07 April 2017, under the National Environmental Management Act 1998 (Act No 107 of 1998), for the intent to undertake EIA processes for the abovementioned projects. Basic Assessment (BA) processes are required for the expansion of the railway line. This advert further serves as notice for the release of the Draft Basic Assessment reports for public review, to ensure participation by potential or registered interested and affected parties (I&APs) is facilitated in such a manner that all potential or registered I&APs are provided with a reasonable opportunity to comment on the proposed applications.

Proposed Project: The proposed development will entail the expansion of railway lines by constructing new loops at the Boshok Line and the Heysterkrand Line. The strategic importance of this rail section is highlighted by the large volume and variety of commodities currently being transported, such as coal, chrome, iron ore, containers and general freight. The proposed project will involve the construction of track work (200 axle loading formation layers), required for doubling of the existing line and expansion of the bridge; installation of a localised remote control system to enable the train driver to remotely operate the tangential point sets of both sides of the loop, using a radio control; the extension several box culverts to accommodate the new loops; and the construction of a river bridge (near Boshok), similar to the existing bridge on the main line.

As per the E

TRANSNET SOC LTD PROPOSES THE EXPANSION OF RAILWAY LINES BY CONSTRUCTING A NEW LOOP AT THE BOSHOEK LINE, IN THE RUSTENBURG LOCAL MUNICIPALITY, AND AT THE HEYSTERKRAND LINE, IN THE MOSES KOTANE LOCAL MUNICIPALITY, NORTH-WEST PROVINCE.

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As per the EIA regulations, the proposed developments will require Basic Assessments (BAs) for the expansion of the railway line. Transnet SOC Ltd has appointed EOH Coastal and Environmental Services (EOH CES), to conduct and submit the BA applications, to the Department of Environmental Affairs (DEA), and to function as the Environmental Assessment Practitioner (EAP) for the projects. In addition, the Boshhoek Railway Line will require a Water Use Authorisation in terms of Section 21c and Section 21i of the National Water Act (Act No 36 of 1998, as amended).

All Interested and Affected Parties are hereby notified of the availability of the Draft Basic Assessment Reports (BARs) and Environmental Management Programme Reports (EMPRs) for public review and comment. The 30 day review period is from 25 May 2018 – 24 June 2018.

Copies of the Draft BARs and EMPRs will be available for review and comment at the following locations:

- Rustenburg Public Library, Corner of Heystek St and President Mbeki Dr, Rustenburg;
- On request from EOH CES

A public meeting will be held at the Mogwase Community Hall, Unit 1 Park (25°16'21.54"S, 27°13'14.95"E), on 6 June 2018, at 12h30.



For further information and submission of comments, or registration as interested and affected party, please do not hesitate to contact:

Mr Gideon Raath or Mr Roberto Almanza

Block D, Gillooly's View Office Park

1 Osborne Lane, Bedfordview, Johannesburg, 2007.

Tel: **011 607 8389** or **041 585 1715**;

Email: **gideon.raath@eoh.co.za** or **roberto.almanza@eoh.co.za**

TRANSNET SOC LTD PROPOSES THE EXPANSION OF A RAILWAY LINE BY
CONSTRUCTING A NEW LOOP AT THE BOSHOEK LINE, IN THE RUSTENBURG LOCAL
MUNICIPALITY, NORTH-WEST PROVINCE.

**ENVIRONMENTAL IMPACT ASSESSMENT: INCEPTION NOTICE AND PUBLIC REVIEW NOTICE
OF THE DRAFT BASIC ASSESSMENT REPORT AND ENVIRONMENTAL MANAGEMENT
PROGRAMME**

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Proposed Project: The proposed development will entail the expansion of the railway line by constructing a new loop at the Boshhoek Line. The strategic importance of this rail section is highlighted by the large volume and variety of commodities currently being transported, such as coal, chrome, iron ore, containers and general freight. The proposed project will involve the construction of track work (20t axle loading formation layers), required for doubling of the existing line and expansion of the bridge; installation of a localised remote control system to enable the train driver to remotely operate the tangential point sets of both sides of the loop, using a radio control; the extension several box culverts to accommodate the new loops; and the construction of a river bridge (near Boshhoek), similar to the existing bridge on the main line.

As per the EIA regulations, the proposed development will require a BA for the expansion of the railway line. Transnet SOC Ltd has appointed EOH Coastal and Environmental Services (EOH CES), to conduct and submit the BA application to the Department of Environmental Affairs (DEA), and to function as the Environmental Assessment Practitioner (EAP) for the project. In addition, the Boshhoek Railway Line will require a Water Use Authorisation in terms of Section 21c and Section 21i of the National Water Act (Act No 36 of 1998, as amended).

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Copies of the Draft BAR and EMPr will be available for review and comment at the following locations:

- Rustenburg Public Library, Corner of Heystek St and President Mbeki Dr, Rustenburg;
- On request from EOH CES.

A public meeting will be held at the Caucus Room, Community Development Civic Centre, 1 Kloof Street, Rustenburg (25°40'57.09"S, 27°14'57.86"E), on 13 June 2018, at 12h30.



Coastal & Environmental Services

For further information and submission of comments, or registration as interested and affected party, please do not hesitate to contact:

Mr Gideon Raath or Mr Roberto Almanza

Block D, Gillooly's View Office Park

1 Osborne Lane, Bedfordview, Johannesburg, 2007.

Tel: **011 607 8389** or **041 585 1715**;

Email: gideon.raath@eoh.co.za or roberto.almanza@eoh.co.za

BASIC ASSESSMENT REPORT

Draft Basic Assessment Report Published on the EOH CES Website :

The screenshot shows a web browser window displaying the EOH Coastal & Environmental Services website. The address bar shows the URL: www.cesnet.co.za/transnet-soc-ltd-railway-line-expansion. The website header includes the EOH logo and navigation links: HOME, ABOUT US, PUBLIC DOCUMENTS, COURSES, VACANCIES, GALLERY, CONTACT US. A search bar is also present.

PUBLIC DOCUMENTS

Transnet SOC Ltd Railway Line Expansion: New Loops at the Boshhoek and Heysterkrand Lines

TRANSNET SOC LTD PROPOSES THE EXPANSION OF RAILWAY LINES BY CONSTRUCTING A NEW LOOP AT THE BOSHOEK LINE, IN THE RUGTENBURG LOCAL MUNICIPALITY, AND AT THE HEYSTERKRAND LINE, IN THE MOSES KOTANE LOCAL MUNICIPALITY, NORTH-WEST PROVINCE.

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As per the EIA regulations, the proposed developments will require Basic Assessments (BA) for the expansion of the railway line. Transnet SOC Ltd has appointed EOH Coastal and Environmental Services (EOH CES), to conduct and submit the BA applications, to the Department of Environmental Affairs (DEA), and to function as the Environmental Assessment Practitioner (EAP) for the projects. In addition, the Boshhoek Railway Line will require a Water Use Authorisation in terms of Section 21c and Section 21l of the National Water Act (Act No 36 of 1998, as amended).

Public Documents:

- Boshhoek Background Information Document
- Boshhoek Draft Basic Assessment Report
- Boshhoek Ecological Report
- Boshhoek Aquatic and Wetland Report
- Boshhoek Archaeological Report
- Boshhoek Draft Environmental Management Programme (EMPr)
- Heysterkrand Background Information Document
- Heysterkrand Draft Basic Assessment Report
- Heysterkrand Ecological Report
- Heysterkrand Archaeological Report
- Heysterkrand Draft Environmental Management Programme (EMPr)

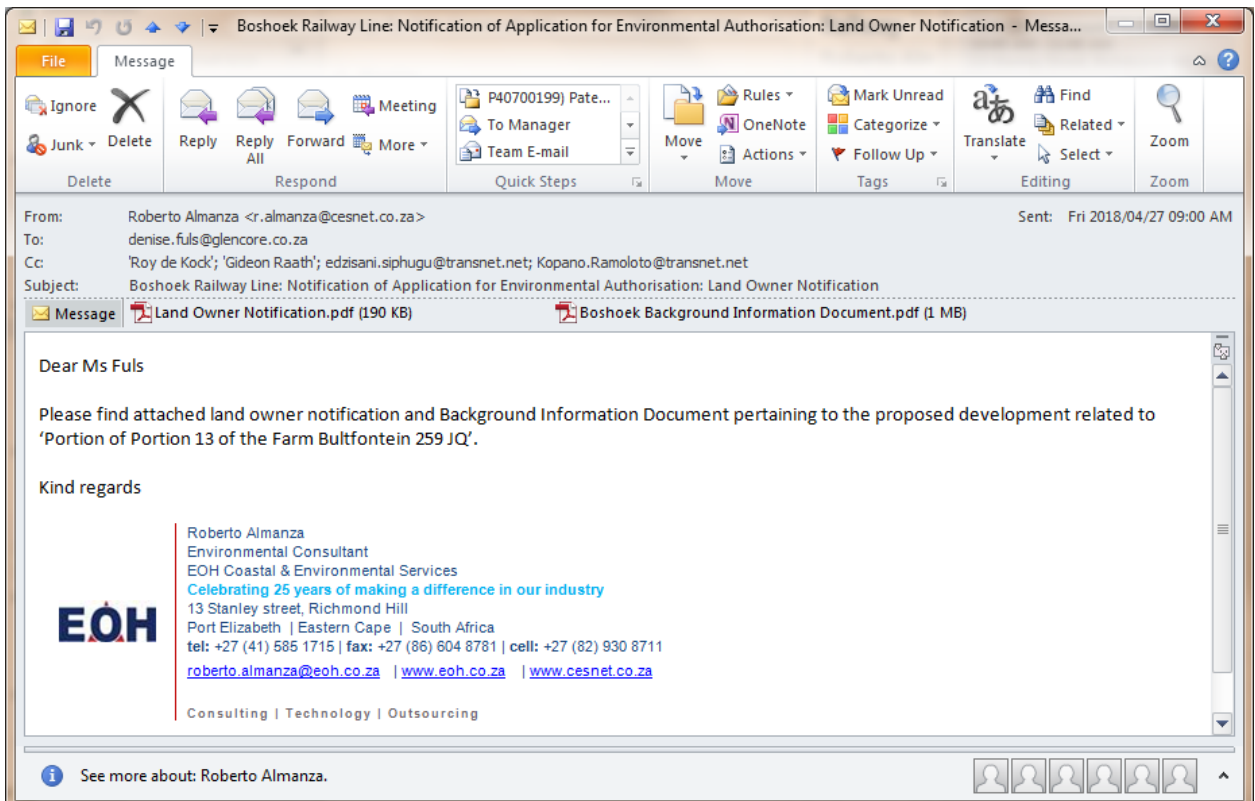
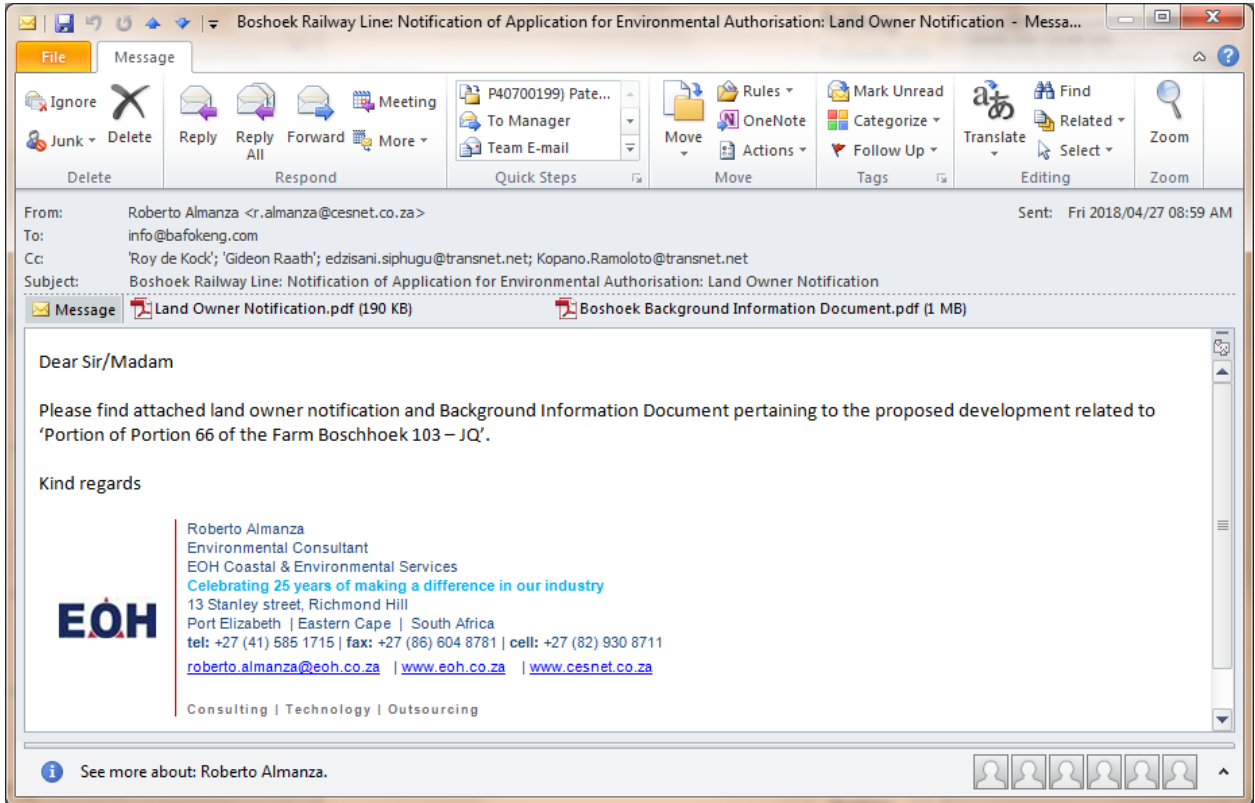
[...back to public documents](#)

BASIC ASSESSMENT REPORT

PROOF OF NOTIFICATION OF AUTHORITIES AND KEY STAKEHOLDERS

Land Owner:

Notifications Sent on 27 April 2018:



Attachment to Notification ('Land Owner Notification'):



Coastal & Environmental Services

26 April 2018

Dear Sir/Madam,

ATTENTION:

OWNER OR PERSON IN CONTROL OF THE LAND WHERE THE ACTIVITY IS TO BE UNDERTAKEN

NOTIFICATION: BASIC ASSESSMENT FOR THE PROPOSED EXPANSION OF THE BOSHOEK RAILWAY LINE, NORTH-WEST PROVINCE, SOUTH AFRICA

In accordance with the requirements of Section 41 (2) (b) (ii) of the Environmental Impact Assessment (EIA) Regulations (2014), as amended in 2017, made in terms of Section 24 of the National Environmental Management Act (Act No 107 of 1998, as amended), we are required to notify, "the occupiers of the site and, if the proponent or applicant is not the owner or person in control of the site on which the activity is to be undertaken, the owner or person in control of the site where the activity is or is to be undertaken and to any alternative site where the activity is to be undertaken". In accordance with this requirement, please find herewith a letter of notification for a Basic Assessment (BA) process being conducted by EOH Coastal & Environmental Services (EOH CES) in respect of the abovementioned project.

The proposed development will entail the expansion of railway lines by constructing a new loop at the Boshhoek Line. The project will involve the construction of track work (20t axle loading formation layers), required for doubling of the existing line and expansion of the bridge; installation of a localised remote control system to enable the train driver to remotely operate the tangential point sets of both sides of the loop, using a radio control; the extension of 5 box culverts to accommodate the new loop; and the construction of a river bridge, similar to the existing bridge on the main line.

In accordance with the Amended EIA Regulations of 2017, the proposed development will require a BA process. The Department of Environmental Affairs (DEA) will be the decision-making authority for this application. Please note the following:

- EOH CES have been appointed by Transnet SOC Ltd to conduct the BA for the proposed development;
- Following the release of the draft Basic Assessment Report (BAR), a public meeting will be held to present the project and to give the public an opportunity to comment on the proposed development. You will be notified of the date, time and venue for the public meeting accordingly;
- EOH CES would appreciate it if you could kindly confirm your receipt of this notification via email, fax, phone or post.

For more information, please feel free to contact:
Mr. Gideon Raath and/or Mr Roberto Almanza
Tel: (011) 607 8389 (Extension 8389) | (041) 585 1715
E-mail: gideon.raath@eoh.co.za | roberto.almanza@eoh.co.za

Yours sincerely,

Gideon Raath
Environmental Consultant

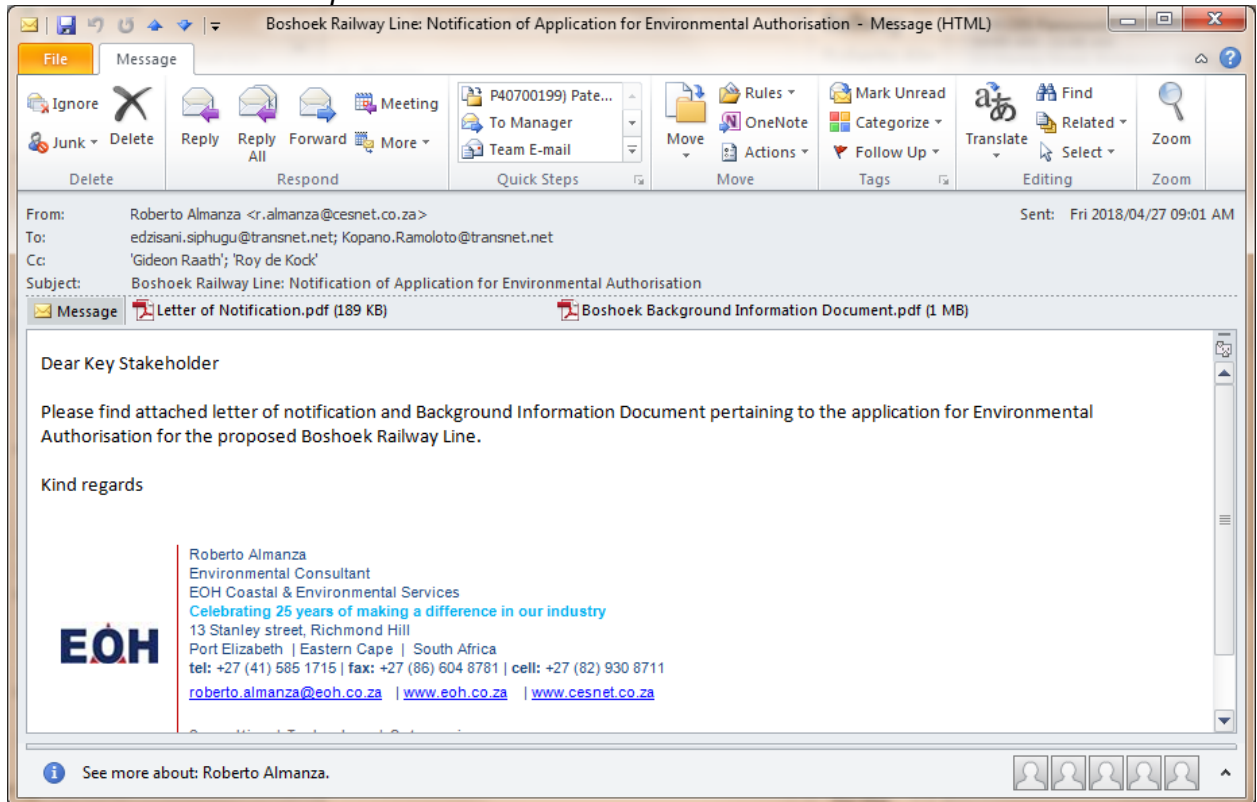
Coastal and Environmental Services (Pty) Ltd
T +27 11 807 8389 | F +27 11 816 9929
EOH Business Park, Gillooly's View, 1 Osborne Lane, Bedfordview, 2007 | PO Box 59, Bruma 2026
Reg no: 2012/151672/07 | a member of the EOH Group of Companies
www.eoh.co.za | www.cesnet.co.za

Directors: Z Mayet, JW King, and AM Avis.

BASIC ASSESSMENT REPORT

Key Stakeholders and Authorities:

Notification Sent on 27 April 2018:



Attachment to Notification ('Letter of Notification'):



26 April 2018

Dear Interested and Affected Party,

ATTENTION:

OWNER OR PERSON IN CONTROL OF THE LAND WHERE THE ACTIVITY IS TO BE UNDERTAKEN

NOTIFICATION: BASIC ASSESSMENT FOR THE PROPOSED EXPANSION OF THE BOSHOEK RAILWAY LINE, NORTH-WEST PROVINCE, SOUTH AFRICA

In accordance with the requirements of Section 41 of the Environmental Impact Assessment (EIA) Regulations (2014), as amended in 2017, made in terms of Section 24 of the National Environmental Management Act (Act No 107 of 1998, as amended), we are required to notify all Interested and Affected Parties (I&APs) of the proposed new development. In accordance with this requirement, please find herewith a letter of notification for a Basic Assessment (BA) process being carried out by EOH Coastal & Environmental Services (EOH CES) in respect of the abovementioned project.

The proposed development will entail the expansion of railway lines by constructing a new loop at the Boshhoek Line. The project will involve the construction of track work (20t axle loading formation layers), required for doubling of the existing line and expansion of the bridge; installation of a localised remote control system to enable the train driver to remotely operate the tangential point sets of both sides of the loop, using a radio control; the extension of 5 box culverts to accommodate the new loop; and the construction of a river bridge, similar to the existing bridge on the main line.

In accordance with the Amended EIA Regulations of 2017, the proposed development will require a BA process. The Department of Environmental Affairs (DEA) will be the decision-making authority for this application. Please note the following:

- EOH CES have been appointed by Transnet SOC Ltd to conduct the BA for the proposed development;
- Following the release of the draft Basic Assessment Report (BAR), a public meeting will be held to present the project and to give the public an opportunity to comment on the proposed development. You will be notified of the date, time and venue for the public meeting accordingly;
- EOH CES would appreciate it if you could kindly confirm your receipt of this notification via email, fax, phone or post.

For more information, please feel free to contact:
Mr Gideon Raath and/or Mr Roberto Almanza
Tel: (011) 607 8389 (Extension 8389) | (041) 585 1715
E-mail: gideon.raath@eoh.co.za | roberto.almanza@eoh.co.za

Yours sincerely,

Gideon Raath
Environmental Consultant

Coastal and Environmental Services (Pty) Ltd
T +27 11 607 8389 | F +27 11 616 9929
EOH Business Park, Gillooly's View, 1 Osborne Lane, Bedfordview, 2007 | PO Box 59, Bruma 2028
Reg no: 2012/151872/07 | a member of the EOH Group of Companies
www.eoh.co.za | www.cesnet.co.za

Directors: Z Mayet, JW King, and AM Avis.

BASIC ASSESSMENT REPORT

Background Information Document Sent to All I&APs:

**BASIC ENVIRONMENTAL IMPACT ASSESSMENT
FOR THE
TRANSNET SOC Ltd BOSHOEK LOOP**



**BACKGROUND INFORMATION DOCUMENT
&
INVITATION TO COMMENT:**

Return address for comments:
EOH Coastal & Environmental Services
Gideon Raath
Block D, Gilbody's View Office Park
(EOH Business Park),
1 Osborne Lane, Bedfordview,
Johannesburg, 2007
Tel: 011 907 6369 (Extension 6369)
Email: gideon.raath@eoh.co.za



EOH Coastal & Environmental Services 1 Transnet SOC Ltd ED

AIM OF THIS DOCUMENT

The purpose of this document is to ensure that people interested in or affected by the proposed project are provided with information about the proposal, the process being followed and provided with an opportunity to be involved in the environmental assessment process.

Registering as an Interested and/or Affected Party (I&AP) allows individuals or groups the opportunity to contribute ideas, issues, and concerns regarding the project. I&APs also have an opportunity to review all reports and submit comments on those reports. All comments received are included in the reports submitted to the Competent Authority (The national Department of Environmental Affairs).

THE PROPONENT

Transnet SOC Limited is a South African parastatal that provides freight transport and handling services in South Africa. The company operates through five divisions: Freight Rail, Engineering, National Ports Authority, Port Terminals, and Pipelines. The Freight Rail maintains the rail network across South Africa and it connects with other rail networks in the sub-Saharan region. It also transports automotive products, containers, lime and cement, coal, grains, agricultural fuels, chemicals, fertilizers, chrome and manganese, and granules for mining. The project forms part of the Transnet Waterberg rail corridor expansion between Ermelo and Lephalale located in Mpumalanga and Limpopo respectively.

THE ENVIRONMENTAL ASSESSMENT PRACTITIONER

EOH Coastal and Environmental Services (EOH CES) is specialised in environmental and social impact assessments and environmental management and has been appointed by Transnet SOC Ltd to conduct the required Basic Assessment for the proposed project.

PROJECT DESCRIPTION

Transnet SOC Ltd has proposed the expansion of the railway lines by constructing a new loop at the Boshhoek line. The strategic importance of this rail section is highlighted by the large volume and variety of commodities currently being transported, such as coal, chrome, iron ore, containers and general freight.

The new Boshhoek Loop will be 1.6km long, between Boshhoek and Iltha mining, in the Rustenburg Local Municipality, Bojanala Platinum District Municipality of the North West Province (Figure 1).

The scope of works includes the following activities:

- i. Construction of track work (20t axle loading formation layers), required for doubling of the existing line and expansion of the bridge;
- ii. Installation of a localised remote control system to enable the train driver to remotely operate the tangential point sets of both sides of the loop, using a radio control;
- iii. The extension of 5 box culverts to accommodate the new loop. Only the length of the culverts will be extended, not the existing design type or location; and
- iv. A river bridge will be constructed at approximately km 135.130, the size and shape of which will be similar to the existing one on the main line.

EOH Coastal & Environmental Services 2 Transnet SOC Ltd ED

Based on the proximity of nearby surface water resources (Figure 2), the contents of which is explained in more detail below, the proposed development will trigger Section 21(c) and 21(i) water uses, as set out in the National Water Act (NWA - Act 36 of 1998), thus requiring a Water Use Licence (WUL), or General Authorisation (GA), depending on the risk assessment conducted by the Aquatic and Wetland Assessment specialist.

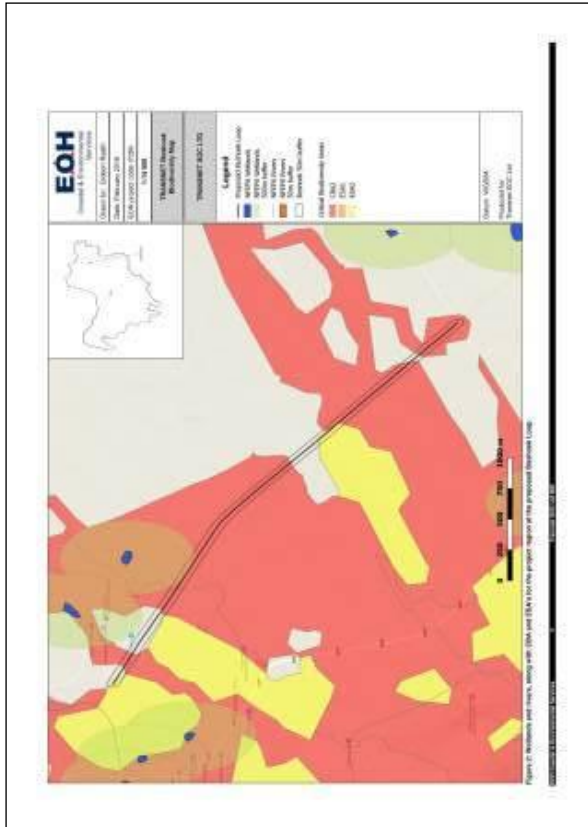
The National Freshwater Ecosystem Priority Areas (NFEPA, 2011) project was a partnership and collaborative process led by the CSIR with the South African National Biodiversity Institute (SANBI), Department of Water Affairs (DWA), the Water Research Commission (WRC), WWF South Africa, as well as expertise from South African National Parks (SANParks) and the South African Institute for Aquatic Biodiversity (SAIAB). The aim was to provide a strategic layout of all national rivers, wetlands and estuaries that should remain healthy. These NFEPA rivers and wetlands are mapped in Figure 2, along with a 500m boundary around wetlands, and a 32m boundary around rivers, in order to show how the project may influence these resources.

Furthermore, the North West Biodiversity Sector Plan (2015) provided input into this project. The purpose of this project was to finalize the biodiversity conservation assessment for the province, which will be used to inform the development of the Provincial Biodiversity Sector plans and bioregional plans. This will also be used to inform Social Development Frameworks (SDFs), Environmental Management Frameworks (EMFs), Strategic Environmental Assessments (SEAs) and in the Environmental Impact Assessment (EIA) process in the province. A Critical Biodiversity Area (CBA) map was developed for the province (which includes Ecological Support Areas (ESA). The CBA map is intended to act as the biodiversity sector's input into multi-sectoral plans and assessments (e.g. SDF, EMF, EIA, IDP, etc.). The CBA map product is aligned with national standards for bioregional plans in terms of terminology and methods. These regions have thus also been mapped in Figure 2, to show the relative sensitivity of the different ecological zones applicable to the project.

EOH Coastal & Environmental Services 3 Transnet SOC Ltd ED



BASIC ASSESSMENT REPORT



RELEVANT LEGISLATION

The Environmental Impact Assessment (EIA) Regulations, made in terms of Section 24 of Chapter 5 of the National Environmental Management Act (Act No 107 of 1998), and the related Lists of Activities (Government Notices (GN) R. 326, issued on the 07th April 2017), specify the activities that require either a Basic Assessment, or a full Scoping and EIA respectively.

The proposed project is subject to a Basic Assessment Report in terms of the following activities, which are likely to be triggered:

Activity Number (2017)	Activity Description	Identification of Component Authority
Listing Notice 1 (GNR 327)		
GN R. 327- No. 12	The development of (i) infrastructure of structures with a physical footprint of 100 square metres or more; Where such development occurs – (a) within a watercourse; (c) if no development setback exists, within 10 metres of a watercourse, measured from the edge of a watercourse; - Excluding – (ii) where such development occurs within existing roads, road reserves or railway line reserves	While the proposed loop construction will occur within the railway line reserve, provision must be made for laydown and construction camp areas, which will not be located within the railway reserve, and will thus trigger this activity
GN R. 327- No. 14	The development and related operation 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 cubic metres, or more but not exceeding 500 cubic metres.	Operations of a siding include the temporary storage of moderate quantities of dangerous goods which may exceed the threshold identified.
GN R. 327- No. 19	The infilling or depositing of any material of more than 10 cubic metres, into, or the dredging, excavation, removal or moving of soil, sand, shells, shell grit, pebbles or rock of more than 10 cubic metres, from a watercourse	Due to the alignment of the proposed loop, development within or near a watercourse will definitely occur.
GN R. 327- No. 40	The expansion of – (i) infrastructure or structures where the physical footprint is expanded by 100 square metres or more; or where such expansion occurs – (a) within a watercourse; excluding – (ii) where such expansion occurs within existing roads, road reserves or railway line reserves or moving – (a) will occur behind a development setback; (b) is for maintenance purposes	While the proposed loop construction will occur within the railway line reserve, provision must be made for laydown and construction camp areas, which will not be located within the railway reserve, and will thus trigger this activity.

	undertaken in accordance with a maintenance management plan; (c) falls within the ambit of activity 21 in the Notice, in which case that activity applies; (d) occurs within existing ports or harbours that will not increase the development footprint of the port or harbour; or (e) where such development is related to the development of a port or harbour, in which case activity 26 in Listing Notice 2 of 2014 applies.		
Listing Notice 3 (GNR 324)			
GN R. 324- No.10(i)(iv)	The development and related operation of facilities or infrastructure for the storage, or storage and handling, of a dangerous good, where such storage occurs in containers with a combined capacity of 20 but not exceeding 80 cubic metres	h. North West iv. Critical biodiversity areas as identified in systematic biodiversity plans adopted by the competent authority; vi. Areas within a watercourse or wetland, or within 100 metres from the edge of a watercourse or Wetland	Operation of a siding includes the temporary storage of moderate quantities of dangerous goods, which may exceed the threshold identified.
GN R. 324- No.12(i)(iv)(Appendix 1)	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	h. North West: iv. Critical biodiversity areas as identified in a systematic biodiversity plan.	Construction of the proposed loop comprises clearance of indigenous vegetation in excess of the threshold, across regions classified as CSA 2.
GN R. 324- No.14	The development of – (i) infrastructure	h. North West iv. Critical biodiversity areas as identified in systematic biodiversity	Due to the alignment of the proposed loop, development within or near a watercourse will be definitely occur.

or structures with a physical footprint of 10 square metres or more;	plans adopted by the competent authority;	vi. Areas within a watercourse or wetland, or within 100 metres from the edge of a watercourse or wetland.	
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Please note: Only summary descriptions are included here for the sake of brevity. Please consult the Government Notices (GN) R.327, 325 and 326, of the EIA Regulations (7th April 2017) for a complete listing and description of each activity mentioned here.

BASIC ASSESSMENT REPORT

APPROACH TO THIS BASIC ASSESSMENT REPORT

The BA for the proposed project is presently in the planning phase. This phase serves primarily to inform the public and relevant authorities about the proposed project and to determine any impacts. Those impacts will then be extensively addressed during the environmental impact assessment studies. Only after the full Basic Assessment Report has been submitted will the relevant authorities make a decision.

A Draft Basic Assessment Report (dBAR) will be compiled which will comprehensively describe the activities and impacts that the project may have on the receiving environment, including specialist reports and details from the PPP process. The dBAR and Environmental Management Programme (EMP) will be submitted for a 30 day public comment period.

Subsequent to the review and commenting period, a Final BAR will be compiled for submission to Department of Environmental Affairs (DEA). This will include all public comments and response to issues raised by ISAPs.

Should the authorities grant approval via an environmental authorisation, all registered ISAPs will be notified accordingly and given the opportunity to appeal against the decision, should they so wish.



Figure 2: Proposed Basic Assessment Process Including Public Participation.

POTENTIAL IMPACTS AND BENEFITS

The following general impacts are anticipated from the rail upgrade works:

- Alteration of hydrological regime of rivers
- Light pollution
- Hazardous spillage
- Dust generation
- Soil erosion
- Noise increase
- Heritage impacts
- Vegetation and faunal impacts
- Traffic impacts
- Sedimentation of rivers
- Water contamination
- Social impacts
- Invasive alien species spread
- Stormwater impacts
- Loss of habitat and ecosystem quality
- Loss of soil fertility
- Waste creation and storage

The following specialist studies will be conducted to ascertain any potential impacts, positive and negative, that may occur as a result of the potential authorization of the project, and to propose mitigation measures for the construction and operation phases:

- Phase I Heritage Impact Assessment;
- Ecological Impact Assessment; and
- Aquatic and Wetland Assessment (inclusive of Present Ecological State (PES) and Ecological Importance and Sensitivity (EIS) and risk assessment – in order to satisfy WUL requirements).

HOW CAN YOU BE INVOLVED?

A Public Participation Process (PPP) is being conducted as part of the BAR. The aim of the PPP is to allow everyone who is interested in, or likely to be affected by, the proposed development to provide input into the process.

The Public Participation Process will include:

- Advertisements in the local newspapers;
- Notice Boards on site;
- Circulation of the BID (this document) to all ISAPs and stakeholders;
- Registration of all ISAPs and stakeholders;
- Community and focus group meetings; and
- Review of all comments by registered ISAPs and stakeholders.

If you consider yourself an interested and/or affected person/party, it is important that you become and remain involved in the public participation process. In order to do so please follow the steps below in order to ensure that you are continually informed of the project developments and will ensure your opportunity to raise issues and concerns pertaining to the project.

STEP 1: Please register by responding to our notification and invitation, with your name and contact details (details provided on cover page and below). As a registered ISAP you will be informed of all meetings, report reviews and project developments throughout the EIA process.

STEP 2: Please send us any comments, concerns or queries you may have in relation to the proposed rail upgrade activities.

STEP 3: Attend meetings that will be held throughout the BAR process. As a registered ISAP, you will be invited to these meetings.

ECHO CES is required to engage with all private and public parties that may be interested and/or affected by the proposed rail upgrade BAR, in order to distribute information for review and comment in a transparent manner.

In the same light, it is important for ISAPs to note the following:

1. In order for ECHO CES to continue engaging with you, please **ENSURE** that you register on our database by contacting the person below.
2. As the BAR process is regulated by specific review and comment timeframes, it is your responsibility to submit your comments within these timeframes.

I hereby wish to register as an Interested and Affected Party (ISAP) for the Transnet SOC Ltd railway line expansion at the Boshoek Line.

Name: _____

Organization: _____

Postal address: _____

Email: _____

Mobile #: _____ Fax #: _____

Landline #: _____

My initial comments, issues or concerns are: _____

Other individuals, stakeholders, organisations or entities that should be registered are:

Name: _____

Organization: _____

Postal address: _____

Email: _____

Phone #: _____ Fax #: _____

Landline #: _____

Please return details to: Gideon Raath: Block D, Gilbody's View Office Park (ECHO Business Park), 1 Customs Lane, Bedfordview, Johannesburg, 2007.

Tel: (011) 607 8389 (ext: 8388) Email: gideon.raath@eoch.co.za

BASIC ASSESSMENT REPORT

Notification of the Draft Basic Assessment Report for Public Review:

Notifications Sent on 25 May 2018:

Boshhoek Railway Line: Notification of Draft Basic Assessment for Public Review - Message (HTML)

You replied to this message on 2018/05/25 04:04 PM.

From: Roberto Almanza <r.almanza@cesnet.co.za>
To: 'edzisanisiphugu@transnet.net'; 'Kopano.Ramoloto@transnet.net'
Cc: 'Gideon Raath'; 'Roy de Kock'
Bcc: 'Mmonyai@environment.gov.za'; 'DNetshombo@environment.gov.za'; 'masela@environment.gov.za'; 'Dmit@environment.gov.za'; 'vandermerwe@environment.gov.za'; 'MRabothata@environment.gov.za'; 'emokgamedi@environment.gov.za'; 'Khuzwayi@dot.gov.za'; 'MasekoZ@dot.gov.za'; 'khayalethu.matrose@dmr.gov.za'; 'ndlelenhle.zindela@dmr.gov.za'; 'Ipeleng.Wesi@dmr.gov.za'; 'hzoama.basa@dmr.gov.za'; 'shildzi.phalala@dmr.gov.za'; 'phumudzo.nethwadi@dmr.gov.za'; 'ndikobe@nwpp.gov.za'; 'bmfokeng@nwpp.gov.za'; 'NhlIT@dws.gov.za'; 'RalekoaW@dws.gov.za'; 'maluleke@dws.gov.za'; 'shgolekgari@nwpp.gov.za'; 'pkrijan@nwpp.gov.za'; 'pmatlapeng@nwpp.gov.za'; 'pogisos@bojanala.gov.za'; 'nicrakolle@gmail.com'; 'o.molele@rustenburgrapidtransport.co.za'; 'o.molele@rustenburg.gov.za'; 'pmongae@rustenburg.gov.za'; 'a.malla@rustenburg.gov.za'; 'm.njikelane@rustenburg.gov.za'; 'letoto.bb@gmail.com';

Subject: Boshhoek Railway Line: Notification of Draft Basic Assessment for Public Review

Dear Key Interested and Affected Party,

Notice is hereby given in terms of the National Environmental Management Act (NEMA) (Act No. 107 of 1998, as amended) of the proposed Expansion of the Boshhoek Railway Loop from 132.82km to 135.78km, in the Rustenburg Local Municipality, North West Province. This project will be conducted as per the NEMA Environmental Impact Assessment (EIA) regulations (2014, as amended in 2017) and will trigger a Basic Assessment process, in accordance with regulation 19 as published in EIA Regulations. EOH Coastal & Environmental Services has been appointed by Transnet SOC Ltd to apply for Environmental Authorisation for the Listed Activities triggered in Listing Notice 1 and Listing Notice 3 of the 2014 EIA Regulations (as amended in 2017). The proposed project will also require a Water Use Authorisation in terms of Section 21(c) and 21(j) of the National Water Act (Act No. 36 of 1998, as amended).

The Draft Basic Assessment Report (DBAR) is available for review from 25 May 2018 to 25 June 2018. **Kindly submit any comments relating to the project on or before 22 June 2018.** Copies of the DBAR will be available for review at the following locations:

- Rustenburg Public Library, Corner of Heystek St and President Mbeki Dr, Rustenburg;
- Moses Kotane Local Municipality Ward 33 Councillor's Office, Stand No.933, Station Road, Unit 3, Mogwase Shopping Complex, Mogwase;
- On request from EOH Coastal & Environmental Services.

Further to this, please note that a public meeting will be held at the Mogwase Community Hall, Unit 1 Park, Mogwase (25°16'21.54"S, 27°13'14.95"E), on 6 June 2018, at 12h30.

Comments can be submitted in writing by post, fax or email to the following consultants:

- Mr Roberto Almanza, 13 Stanley Street, Richmond Hill, Port Elizabeth, 6001; Tel: 041 585 1715; Fax: 086 604 8781; Email: r.almanza@cesnet.co.za or roberto.almanza@eoh.co.za
- Mr Gideon Raath, 1 Osborne Lane, Bedfordview, Johannesburg, 2007; Tel: 011 607 8389; Email: g.raath@cesnet.co.za or gideon.raath@eoh.co.za

Kind regards

Roberto Almanza
Environmental Consultant
EOH Coastal & Environmental Services
Leaders in environmental and social advisory services
13 Stanley street, Richmond Hill
Port Elizabeth | Eastern Cape | South Africa
tel: +27 (41) 585 1715 | fax: +27 (86) 604 8781 | cell: +27 (82) 930 8711
roberto.almanza@eoh.co.za | www.eoh.co.za | www.cesnet.co.za

Consulting | Technology | Outsourcing

See more about: Roberto Almanza.

Notifications Sent on 12 June 2018:

Boshhoek Railway Line: Notification of Draft Basic Assessment for Public Review - Message (HTML)

From: Roberto Almanza <r.almanza@cesnet.co.za>
To: 'edzisanisiphugu@transnet.net'; 'Kopano.Ramoloto@transnet.net'
Cc: 'Gideon Raath'; 'Roy de Kock'
Bcc: 'Mmonyai@environment.gov.za'; 'DNetshombo@environment.gov.za'; 'masela@environment.gov.za'; 'Dmit@environment.gov.za'; 'vandermerwe@environment.gov.za'; 'MRabothata@environment.gov.za'; 'emokgamedi@environment.gov.za'; 'KhuzwayiL@dot.gov.za'; 'MasekoZ@dot.gov.za'; 'khayalethu.matrose@dmr.gov.za'; 'ndlelenhle.zindela@dmr.gov.za'; 'Ipeleng.Wesi@dmr.gov.za'; 'hzoama.basa@dmr.gov.za'; 'shildzi.phalala@dmr.gov.za'; 'phumudzo.nethwadi@dmr.gov.za'; 'ndikobe@nwpp.gov.za'; 'bmfokeng@nwpp.gov.za'; 'NhlIT@dws.gov.za'; 'RalekoaW@dws.gov.za'; 'maluleke@dws.gov.za'; 'shgolekgari@nwpp.gov.za'; 'pkrijan@nwpp.gov.za'; 'pmatlapeng@nwpp.gov.za';

Subject: Boshhoek Railway Line: Notification of Draft Basic Assessment for Public Review

Dear Key Interested and Affected Party

Further to the email below, please note that an additional public meeting will be held at the Caucus Room, Community Development Civic Centre, 1 Kloof Street, Rustenburg (25°40'57.09"S, 27°14'57.86"E), on 13 June 2018, at 12h30.

Kind regards
Roberto



Roberto Almanza
Environmental Consultant
EOH Coastal & Environmental Services
Leaders in environmental and social advisory services
13 Stanley street, Richmond Hill
Port Elizabeth | Eastern Cape | South Africa
tel: +27 (41) 585 1715 | fax: +27 (86) 604 8781 | cell: +27 (82) 930 8711
roberto.almanza@eoh.co.za | www.eoh.co.za | www.cesnet.co.za

Consulting | Technology | Outsourcing

See more about: Roberto Almanza.

BASIC ASSESSMENT REPORT

Proof of Delivery of Draft Basic Assessment Report to DEA:

 0861 388 883 www.globeflight.com Reg. No. 1998/009052/07 / VAT NO: 4650175351			2717441700				
DATE	ACCOUNT NUMBER	COST CENTRE	SHIPPER'S REFERENCE	ORIGIN	DESTINATION	No. OF PIECES	ACTUAL WEIGHT
	Z10919		PLW7COZ90				2
SHIPPER: (YOUR NAME)			TO: (RECIPIENT'S NAME)				
Official Supplier To:			Head Librarian				
COMPANY NAME:			COMPANY NAME:				
COASTAL AND ENVIRONMENTAL SERVICES P			Rustenburg Public Library				
STREET ADDRESS:			STREET ADDRESS:				
13 STANLEY STREET			Corner of Heystels St and A				
RICHMOND HILL			President Mbeli Drive				
CITY			CITY				
PORT ELIZABETH SA RUGBY™			Rustenburg				
COUNTRY:			POST/ZIP CODE:		COUNTRY:		POST/ZIP CODE:
SOUTH AFRICA			6001		S. Africa		0300
TELEPHONE NUMBER & E-MAIL:			TELEPHONE NUMBER & E-MAIL:				
0415851715			014 590 3294 ; info@rustenburg.gov.za				
INTERNATIONAL SERVICES	GLOBAL DOCUMENT EXPRESS	DOMESTIC SERVICES	OVERNIGHT EXPRESS	DOMESTIC SERVICES	SAME DAY		DESCRIPTION OF CONTENTS
	GLOBAL PARCEL EXPRESS		IN CITY DELIVERY		DAWN DELIVERY BY 09H00		
	GLOBAL MAIL		BUDGET CARGO 21-48 HRS		SATURDAY DELIVERY		
	AIRFREIGHT		ROAD FREIGHT 48-96 HRS		AFTER HOURS		
	CROSS BORDER ROAD FREIGHT				PUBLIC HOLIDAY		
CUSTOMS VALUE		WE HAVE SEEN AND AGREE TO THE STANDARD CONDITIONS OF CARRIAGE OF GLOBEFLIGHT WORLDWIDE EXPRESS		RECEIVED BY GLOBEFLIGHT WORLDWIDE EXPRESS		RECEIVED IN GOOD ORDER AND CONDITION	
HAZARDOUS CARGO? YES <input type="checkbox"/> NO <input type="checkbox"/>		SIGNATURE: <i>R. Almondo</i>		SIGNATURE: <i>Uwens</i>		SIGNATURE: <i>M. M. Tait</i>	
INSURANCE YES <input type="checkbox"/> NO <input type="checkbox"/>		DATE: 23/5/2018 TIME: 17:00		DATE: 23/5/18 TIME: 17:28		DATE: 28/5/18	
AMOUNT:		GlobeFlight reserves the right to choose the service "Budget" should no service label be selected					

DEA Acknowledgement of Receipt of Draft Basic Assessment Report:

From: EIAAdmin [mailto:EIAAdmin@environment.gov.za]
Sent: 28 May 2018 02:17 PM
To: Gideon Raath
Cc: EIAAdmin
Subject: 14/12/16/3/3/1/1921 &1/1922


Good day.

Please find herein the attached letters for the above mentioned.

I hope you find all in order.

Thank you.

Kind Regards,
 EIA Admin
 Integrated Environmental Authorisations:
 Coordination, Strategic Planning and Support
 Tel: (012) 399 8630 / (012) 399 8529
 Email: EIAAdmin@environment.gov.za



environmental affairs
 Department:
 Environmental Affairs
 REPUBLIC OF SOUTH AFRICA

'Please consider the environment before you print this email'

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BASIC ASSESSMENT REPORT

Attachment to DEA Acknowledgement of Receipt of Draft Basic Assessment Report:



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

Private Bag X 447 · PRETORIA · 0001 · Environment House · 473 Steve Biko Road, Arcadia · PRETORIA

DEA Reference: 14/12/16/3/3/1/1921

Enquiries: Juliet Mahlangu

Tel: 012 399 9320 E-mail: jmmahlangu@environment.gov.za

Mr Gideon Raath
EOH Coastal and Environmental Services
Block D, Gillooly's View Office Park
1 Osborne Lane
BEDFORDVIEW
3202

Tel: 011 607 8389
Email: gideon.raath@eoh.co.za

PER EMAIL / MAIL

Dear Sir/Madam

ACKNOWLEDGEMENT OF RECEIPT OF THE NEW APPLICATION FOR ENVIRONMENTAL AUTHORISATION (BASIC ASSESSMENT PROCESS) DRAFT BASIC ASSESSMENT REPORT FOR THE PROPOSED BOSHOEK RAILWAY LOOP, NORTH WEST

The Department confirms having received the Application for Environmental Authorisation (EA) and Draft Basic Assessment Report (BAR) for the abovementioned project on 24 May 2018. You have submitted these documents to comply with the Environmental Impact Assessment (EIA) Regulations, 2014, as amended.

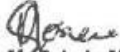
Please take note of Regulation 40(3) of the EIA Regulations, 2014, as amended, which states that potential Interested & Affected Parties (I&APs), including the Competent Authority, may be provided with an opportunity to comment on reports and plans contemplated in Regulation 40(1) of the EIA Regulations, 2014, as amended, prior to the submission of an application but must be provided an opportunity to comment on such reports once an application has been submitted to the Competent Authority (CA).

Note that in terms of Regulation 45 of the EIA Regulations, 2014, as amended, this application will lapse if the applicant fails to meet any of the time-frames prescribed in terms of these Regulations, unless an extension has been granted by the Department in terms of Regulation 3(7) of the EIA Regulations, 2014, as amended.

You are hereby reminded of Section 24F of the National Environmental Management Act (NEMA), Act No. 107 of 1998, as amended, that no activity may commence prior to an Environmental Authorisation being granted by the Department.

Kindly quote the abovementioned reference number in any future correspondence in respect of the application.

Yours Sincerely



Mr Sabelo Malaza

Chief Director: Integrated Environmental Authorisations

Department of Environmental Affairs:

Letter signed by: Vusi Skosana



Designation: Director: EIA Coordination, Strategic Planning and Support

Date: 28/05/2018

Andries van Rosa	Transnet SOC	Email: Andries.vanroses@transnet.net
Ms Portia Krisjan	Department: Rural Environment and Agriculture Development	Email: opkrisjan@rwpd.gov.za



BASIC ASSESSMENT REPORT

Proof of Delivery of Draft Basic Assessment Report to the Rustenburg Public Library:

		0861 388 883 www.globeflight.com Reg. No. 1998/009052/07 / VAT NO: 4650175351				2717441700	
DATE	ACCOUNT NUMBER	COST CENTRE	SHIPPER'S REFERENCE	ORIGIN	DESTINATION	No. OF PIECES	
	Z10919		PL07CO290				
SHIPPER: (YOUR NAME)			TO: (RECIPIENT'S NAME)				
Official Supplier To:			Head Librarian				
COMPANY NAME:			COMPANY NAME:				
COASTAL AND ENVIRONMENTAL SERVICES P			Rustenburg Public Library				
STREET ADDRESS:			STREET ADDRESS:				
13 STANLEY STREET			Corner of Heystek St and				
RICHMOND HILL			President Mbeke Drive				
CITY			CITY				
PORT ELIZABETH SA RUGBY™			Rustenburg				
COUNTRY:		POST/ZIP CODE:	COUNTRY:		POST/ZIP CODE:		
SOUTH AFRICA		6001	S. Africa		0300		
TELEPHONE NUMBER & E-MAIL:			TELEPHONE NUMBER & E-MAIL:				
0415951715			014 520 3294 ; info@rustenburg.gov.za				
INTERNATIONAL SERVICES	GLOBAL DOCUMENT EXPRESS	DOMESTIC SERVICES	OVERNIGHT EXPRESS	DOMESTIC SERVICES	SAME DAY		
	GLOBAL PARCEL EXPRESS		IN CITY DELIVERY		DAWN DELIVERY BY 09H00		
	GLOBAL MAIL		BUDGET CARGO 21-48 HRS		SATURDAY DELIVERY		
	AIRFREIGHT		ROAD FREIGHT 48-96 HRS		AFTER HOURS		
	CROSS BORDER ROAD FREIGHT				PUBLIC HOLIDAY		
CUSTOMS VALUE		WE HAVE SEEN AND AGREE TO THE STANDARD CONDITIONS OF CARRIAGE OF GLOBEFLIGHT WORLDWIDE EXPRESS		RECEIVED BY GLOBEFLIGHT WORLDWIDE EXPRESS		RECEIVED IN GOOD ORDER AND CONDITION	
HAZARDOUS CARGO?	YES <input type="checkbox"/> NO <input type="checkbox"/>	SIGNATURE: <i>R. Almonza</i>		SIGNATURE: <i>Uwensur</i>		SIGNATURE: <i>M. M. Tait</i>	
INSURANCE	YES <input type="checkbox"/> NO <input type="checkbox"/>	DATE: 23/5/18 TIME: 17:00		DATE: 23/5/18 TIME: 17:28		DATE: 23/5/18 TIME: 17:08	
AMOUNT:		GlobeFlight reserves the right to choose the service "Budget" should no service label be selected					

ACTUAL WEIGHT	
2	
PIECES	DIMENSIONS
1	40x30x4
	x x
	x x
	x x
	x x
	x x
IMPORT & EXPORT CODE	
SPECIAL INSTRUCTIONS	
DESCRIPTION OF CONTENTS	

Proof of Delivery of Draft Basic Assessment Report to the Moses Kotane Local Municipality:

		0861 388 883 www.globeflight.com Reg. No. 1998/009052/07 / VAT NO: 4650175351				2717146062	
DATE	ACCOUNT NUMBER	COST CENTRE	SHIPPER'S REFERENCE	ORIGIN	DESTINATION	No. OF PIECES	
	Z10919		PL0700280				
SHIPPER: (YOUR NAME)			TO: (RECIPIENT'S NAME)				
Coastal and Environmental Services P			Cllr Mmolawa				
COMPANY NAME:			COMPANY NAME:				
" "			Moses Kotane Local Municipality				
STREET ADDRESS:			STREET ADDRESS:				
13 Stanley Street			Stand No. 933, Railway Road, Unit 3				
RICHMOND HILL			P.O. BOX NO.				
CITY			CITY				
Port Elizabeth SA RUGBY™			Mogose				
COUNTRY:		POST/ZIP CODE:	COUNTRY:		POST/ZIP CODE:		
South Africa		6001	South Africa		0314		
TELEPHONE NUMBER & E-MAIL:			TELEPHONE NUMBER & E-MAIL:				
041 545 1715			072 463 2176				
INTERNATIONAL SERVICES	GLOBAL DOCUMENT EXPRESS	DOMESTIC SERVICES	OVERNIGHT EXPRESS	DOMESTIC SERVICES	SAME DAY		
	GLOBAL PARCEL EXPRESS		IN CITY DELIVERY		DAWN DELIVERY BY 09H00		
	GLOBAL MAIL		BUDGET CARGO 21-48 HRS		SATURDAY DELIVERY		
	AIRFREIGHT		ROAD FREIGHT 48-96 HRS		AFTER HOURS		
	CROSS BORDER ROAD FREIGHT				PUBLIC HOLIDAY		
CUSTOMS VALUE		WE HAVE SEEN AND AGREE TO THE STANDARD CONDITIONS OF CARRIAGE OF GLOBEFLIGHT WORLDWIDE EXPRESS		RECEIVED BY GLOBEFLIGHT WORLDWIDE EXPRESS		RECEIVED IN GOOD ORDER AND CONDITION	
HAZARDOUS CARGO?	YES <input type="checkbox"/> NO <input type="checkbox"/>	SIGNATURE: <i>R. Almonza</i>		SIGNATURE: <i>Uwensur</i>		SIGNATURE: <i>Karabo Mmolawa</i>	
INSURANCE	YES <input type="checkbox"/> NO <input type="checkbox"/>	DATE: 23/5/18 TIME: 17:00		DATE: 23/5/18 TIME: 17:28		DATE: 25/5/18 TIME: 14:08	
AMOUNT:		GlobeFlight reserves the right to choose the service "Budget" should no service label be selected					

ACTUAL WEIGHT	
1,90	
PIECES	DIMENSIONS
1	40x30x3
	x x
	x x
	x x
	x x
	x x
IMPORT & EXPORT CODE	
SPECIAL INSTRUCTIONS	
DESCRIPTION OF CONTENTS	

BASIC ASSESSMENT REPORT

Public Meeting: Mogwase Community Hall, 6 June 2018



BASIC ASSESSMENT REPORT



ATTENDANCE REGISTER

Project:	Transnet Boshoeck and Transnet Heysterkrand Loop Development BAR's
DEA REF:	Not issued yet (for both)
Meeting:	Public Meeting
Venue:	Mogwase Community Hall:
Date:	06.06.2018

Name	Surname	Affiliation/Organization	Contact details (email, cell, landline, postal)	Signature
Gideon Raath	Raath	EOR Environment Assessment Practitioner	Email: <u>gideon.raath@ecb.co.za</u> Cell/Mobile: <u>0721943664</u> Landline: <u>011 607 9399</u> Postal Address: <u>10 Osborne Ave,</u> <u>Gillwalds View, Heisterkrand,</u> <u>Takameburg, 2007</u>	
Walter	Mahlane	Project Engineer Capital Execution	Email: <u>Walter.mahlane@transnet.net</u> Cell/Mobile: <u>0655054084</u> Landline: <u>011 583 0250</u> Postal Address: <u>Ingarden house 4</u> <u>Gillwald Rd 17</u> <u>Sohamsburg</u>	
Rina	Maupa	CONSTRUCTION MANAGER Transnet Group Capital	Email: <u>rina.maupa@transnet.net</u> Cell/Mobile: <u>0781518391</u> Landline: <u>011 308 4336</u> Postal Address: _____	

BASIC ASSESSMENT REPORT

Public Meeting: Rustenburg Civic Centre, 13 June 2018



BASIC ASSESSMENT REPORT



ATTENDANCE REGISTER

Project:	Transnet Boshhoek and Transnet Heysterkrand Loop Development BAR's
DEA REF	Not issued yet (for both)
Meeting:	Public Meeting
Venue:	Caucus Room, Rustenburg Civic Centre
Date:	13 June 2018

Name	Surname	Affiliation/Organization	Contact details (email, cell, landline, postal)	Signature
Gideon	Rooth	COPI	Email: <u>gideon.rooth@cap.gov.za</u> Cell/Mobile: <u>0723943646</u> Landline: <u>011 6795381</u> Postal Address: <u>1 Osborne Lane</u> <u>Bedfordview</u>	
Edzisanani	SIPHUQU	Transnet TAC	Email: <u>edzisanani.siphuqa@transnet.net</u> Cell/Mobile: <u>083 287 5102</u> Landline: <u>011 308 1703</u> Postal Address: <u>Cauldon Centre</u>	
Khanyisa	Makhaule	Transnet TAC	Email: <u>khanyisa.makhaule@transnet.net</u> Cell/Mobile: <u>083 7911982</u> Landline: <u>011 3544 9161</u> Postal Address: <u>1922 Joubert</u>	

BASIC ASSESSMENT REPORT

COMMENTS AND RESPONSES REPORT

The following communication from I&APs has been received to date.

I&AP DETAILS	COMMENT	EAP RESPONSE
Comments Received Following Notification of Intent to Apply for Environmental Authorisation		
Cllr Mpho Njikelane Ward 6 Councilor, Rustenburg Local Municipality 076 289 9076 letlotlo.bb@gmail.com	I went through your correspondence and take note of it nonetheless how will this be of beneficial to the effected stakeholders. Your expeditious response to the above question will be greatly appreciated but do not be hesitant to give me a shout for any further seeking clarity.	Thank you for your email. We are currently in the process of completing the Environmental Basic Assessment report, which includes a section detailing the positive and negative impacts on the environment, including the relevant/effected stakeholders. This report, when completed, will be made available to all Interested and Affected Parties, including yourself, for comment. You will be notified when the report is made available for public review. Please refer to Section A.10 of this report.
Thato Mjona Department of Water and Sanitation 012 392 1499 083 488 0655 mjonat@dws.gov.za	Reference is made to the Basic Environmental Impact Assessment Report dated April 2018. The Department of Water and Sanitation has evaluated the document and would like the following issues to be addressed in terms of the National Water Act, 1988 (Act 36 of 1998).	Please note that the document dated April 2018 was not the Basic Environmental Impact Assessment Report, but was in fact the Background Information Document (BID) distributed to all I&APs.
	1.It is mentioned on page 3 of the report that based on the proximity of the nearby surface water resources, the proposed development will trigger section 21 (c) & (i) water uses which must be applied for, a risk matrix needs to be compiled in accordance with the General Authorization regulation (notice 509 of 2016) and submitted to the Department.	Please refer to Appendix D (Aquatic and Wetland Impact Assessment) which includes a Risk Matrix compiled in accordance with the General Authorization regulation (notice 509 of 2016) and submitted to the Department.
	2.Any oil spillages, diesel or any other hazardous substance should be treated and disposed of at a permitted hazardous landfill site and the Department must be notified	Noted. This condition has been included in Section D.1 of this report as well as in the Environmental Management Programme (EMPr) included in Appendix G.

BASIC ASSESSMENT REPORT

I&AP DETAILS	COMMENT	EAP RESPONSE
	within 24 hours.	
	3.No construction or development should take place within the scale of 1:100 year flood line, riparian area or 500m from boundary of wetland without an authorization from this Department.	Noted. Based on the proximity of nearby surface water resources, the proposed development will trigger Section 21c and 21i water uses, as set out in the National Water Act (NWA) (Act No. 36 of 1998, as amended), thus requiring a Water Use Authorisation (WUA) application to the Department of Water and Sanitation (DWS). This application will be submitted to DWS and no construction activities will occur until an authorisation is obtained.
	4.No activity should proceed prior to the necessary authorisation.	
Comments Received During the Public Review Period (25 May 2018 to 25 June 2018)		
Cllr Mpho Njikelane Ward 6 Councilor, Rustenburg Local Municipality 076 289 9076 letlotlo.bb@gmail.com	Your mail is well received. I however wish to register my concerns as listed herebelow with your good self. 1. This project is within jurisdiction of Rustenburg Local Municipality but to my surprise most of documents for comments are positioned in Moses Kotane Local Municipality RCCs. Can you give tangible reasons why is that? 2. Your public participation meeting will also be held at Mogwase Community Hall in Moses Kotane Local Municipality which is 50kms to be precise from the interested and affected parties. Can you give tangible reasons why is that and how will interested and affected parties attend? Hoping the above finds you well. I am looking forward to your positive response expeditiously.	Thank you for getting in touch with us and apologies for the delay in response. Please see below my responses and let me know what you think: 1. We have also placed copies at the Rustenburg library, you are welcome to view the hard copies there. Alternatively, I can send you electronic copies of the draft BAR documents if you wish? Simply let me know which ones you want and I can load them onto drop box for you to download. 2. We determined the location based on the region with the most likely interaction, in this case Mogwase residents. We also had to take into account venue availability, cost and the likely amount of people attending, again which pointed to Mogwase as the best suited. I would suggest however, that we perhaps meet with you at your offices on the day of the meeting, perhaps before the meeting itself, to address your concerns? If that is preferable, could we arrange for 10am perhaps?
	With reference to your response. I have raised the said concerns not to be discussed but to correct the manner in which your process is unfolding, I	Please note we have scheduled another meeting tomorrow in Rustenburg for the public to attend. The details are: <i>Further to the email below, please note that an additional public meeting will be held at the Caucus Room, Community Development Civic Centre, 1</i>

BASIC ASSESSMENT REPORT

I&AP DETAILS	COMMENT	EAP RESPONSE
	completely purport it as flawed because it does not speak to parties / stakeholders concerned. Neither Moses Kotane Local Municipality nor Mogwase are parties concerned to this effect, I am therefore of the view that you correct this before it is too late by changing the venue of public participation meeting and placing sufficient number of documents in RCCs within Rustenburg Local Municipality.	<i>Kloof Street, Rustenburg (25°40'57.09"S, 27°14'57.86"E), on 13 June 2018, at 12h30.</i> We have placed hard copies of the documents in the Rustenburg library and the Moses Kotane Local Municipality as well, should anyone want to review the hard copies.
Malebabo Tsolo Environmental Manager 014 573 1528 082 470 2821 MalebaboT@bafokengplatinum.co.za	Could you please register myself ('Malebabo Tsolo) and Tshego Tyira, we both work at Bafokeng Rasimone Platinum Mine (BRPM). Our contact details are as follows: 'Malebabo Tsolo Environmental Manager Tel: (014) 573 1528 Cell: 082 470 2821 Fax: (014) 573 1583 Tshegofatso Tyira Head: Corporate Sustainability Tel +27 (0) 10 590 4539 Cell +27 (0) 83 259 1053 Fax to email +27 (0) 86 210 9769 email tyira@bafokengplatinum.co.za	Thank you for registering as I&APs on the Boshhoek Railway Line Expansion project, North West province. The Draft Basic Assessment Report (DBAR) is available for review from 25 May 2018 to 25 June 2018 and is available on our website (http://www.cesnet.co.za/transnet-soc-ltd-railway-line-expansion). Kindly submit any comments relating to the project on or before 22 June 2018.
Natasha Higgitt Heritage Officer Phillip Hine Acting Manager: Archaeology, Palaeontology and Meteorites Unit South African Heritage Resources	The SAHRA Archaeology, Palaeontology and Meteorites (APM) Unit notes that the proposed development is located in an area of insignificant sensitivity in terms of paleontological resources. Therefore, no further assessment of the impact to	Please note that I have updated the draft BAR and appendices for the Transnet Boshhoek Rail Corridor Expansion AIA (Case 12477) to SAHRIS Case application. The client indicated that the public review period for the Draft report runs from 25 May 2018 to 25 June 2018 and they enquired about the possibility of finalizing the Review Comment from SAHRA for this Case this week, for inclusion in the Final BAR? Thank you for your assistance Natatsha.

BASIC ASSESSMENT REPORT

I&AP DETAILS	COMMENT	EAP RESPONSE
Agency (SAHRA) 021 462 4502 nhiggitt@sahra.org.za	paleontological resources is required. The draft BAR and appendices must be submitted to the SAHRIS Case application so that an informed comment may be issued. Further comments will be issued upon receipt of the above.	
DEA Comments on the Draft Basic Assessment Report		
Mr Sabelo Malaza Chief Director: Integrated Environmental Authorisations Ms Pumeza Skepe-Mngcita Deputy Director: IPS & S24G Department of Environmental Affairs 012 399 9372 smalaza@environment.gov.za bncube@environment.gov.za	a) <u>Listed Activities</u> <ul style="list-style-type: none"> Activity 48 of GN R.983 (as amended) has been incorrectly quoted as Activity 40, in the application form. Please ensure that all activities are quoted correctly. 	Noted. The Amended Application Form, which will be submitted alongside the Final Basic Assessment Report, contains the correct Listed Activities pertaining to the proposed development.
	<ul style="list-style-type: none"> Activity 12, and 40 of GN R.983 (as amended), as well as 10 of GN R.985 (as amended) have been applied for in the application form, but have not been included in the draft BAR dated May 2018. If the activities applied for in the application form differ from those mentioned in the final BAR, an amended application form must be submitted for final review and decision making. 	Noted. The Amended Application Form, which will be submitted alongside the Final Basic Assessment Report, contains the correct Listed Activities pertaining to the proposed development.
	b) <u>Content of the Basic Assessment</u> Please note that the BAR template has been removed (letter with the details is attached). Please make sure that the content of the final BAR must be in accordance with the requirements contained in Regulation 19 and Appendix 1 of the 2014 EIA Regulation, as amended.	Noted. The EAP is fully aware of the removal of the BAR template as per the letter from DEA dated 23 June 2017. This BAR has been adapted from the BAR template in order to comply with the requirements contained in Regulation 19 and Appendix 1 of the 2014 EIA Regulation, as amended. Please refer to Appendix J, 'Basic Assessment Requirements as per the 2014 NEMA EIA Regulations (as amended in 2017)'.

BASIC ASSESSMENT REPORT

I&AP DETAILS	COMMENT	EAP RESPONSE
	<p>c) <u>Environmental Management Programme (EMP)</u></p> <ul style="list-style-type: none"> • The EMPr must not contain any ambiguity. Where applicable, statements containing the word "should" or "may" are to be amended to "must". 	<p>Noted. The EMPr has been amended accordingly. Please refer to Appendix G of this report.</p>
	<ul style="list-style-type: none"> • Recommendations and mitigation measures recorded in the final BAR, including those from specialist studies, must be incorporated as part of the final EMPr. 	<p>Noted. The EMPr has been amended accordingly. Please refer to Appendix G of this report.</p>
	<p>d) <u>Specialist Studies</u></p> <ul style="list-style-type: none"> • Where specialist studies are conducted in-house or by a specialist other than a suitably qualified specialist in the relevant field such specialist reports must be peer reviewed by a suitably qualified external specialist in the relevant field. The terms of reference for the peer review must include: <ul style="list-style-type: none"> ▪ A CV clearly showing expertise of the peer reviewer; ▪ Acceptability of the terms of reference; ▪ Is the methodology clearly explained and acceptable; ▪ Evaluate the validity of the findings (review data evidence); ▪ Discuss the suitability of the mitigation measures and recommendations; ▪ Identify any short comings and mitigation measures to address 	<p>The Ecological Impact Assessment and the Aquatic and Wetland Study, which were both conducted by EOH CES as specialist studies to accompany the BAR, will be peer reviewed by external specialists in the relevant fields. The peer reviews, as well as any suggested amendments to the specialist reports, will be submitted to DEA as an addendum to the FBAR.</p>

BASIC ASSESSMENT REPORT

I&AP DETAILS	COMMENT	EAP RESPONSE
	<p>the short comings;</p> <ul style="list-style-type: none"> ▪ Evaluate the appropriateness of the reference literature; ▪ Indicate whether a site-inspection was carried out as part of the peer review; and ▪ Indicate whether the article is well-written and easy to understand. 	
	<p>e) <u>Public Participation Process</u></p> <ul style="list-style-type: none"> • Comments must be obtained from the Biodiversity and Conservation unit of this Department. 	<p>One copy of the DBAR was specifically submitted to the Biodiversity and Conservation unit on 24 May 2018 (please refer to the signed stamp from the DEA front office in the sections below). No comment has been received to date. The following correspondence was sent to the Biodiversity and Conservation unit (Mr Stanley Tshitwamulomoni), following a telephonic conversation with the EAP:</p> <p><i>Thanks for contacting me earlier – much appreciated. You indicated that your officials are off sick this week and so you won't be able to get comments on these two applications through to us this week. You also then directed us to submit the final BAR reports, and that you will then send your comments through to the case officer's directly. You also asked me to give you the contact details for the case officers, please see these below. Finally, could I please ask you send your comments to us as well when you send them to the case officer, so we have a copy on hand as well?</i></p> <p><i>Transnet Boshhoek Loop Rail Upgrade DEA Case Number: 14/12/16/3/3/1/1921</i></p> <p><i>Officer: Ms Bathandwa Ncube Tel: 012 399 9368 Email: bncube@environment.gov.za Branch: DEA Pretoria Head Office</i></p> <p><i>Transnet Heysterkrand Loop Rail Upgrade DEA Case Number: 14/12/16/3/3/1/1922</i></p>

BASIC ASSESSMENT REPORT

I&AP DETAILS	COMMENT	EAP RESPONSE
		<p><i>Officer: Ms Samkelisiwe Dlamini</i> <i>Tel: 012 399 9379</i> <i>Email: sdlamini@environment.gov.za</i> <i>Branch: DEA Pretoria Head Office</i></p>
	Please ensure that copies of original comments received from I&APs and organs of state, which have jurisdiction in respect of the proposed activity are submitted to the Department with the Final BAR;	All copies of original comments received from I&APs and organs of state are included in the sections below.
	<ul style="list-style-type: none"> • Proof of correspondence with the various stakeholders, including organs of state which have jurisdiction in respect of the proposed activity, must be included in the final BAR. Should you be unable to obtain such comments, proof should be submitted to the Department of the attempts that were made to obtain the comments; 	All copies of original comments received from I&APs and organs of state are included in the sections below. Please refer to the above sections for proof of notification of I&APs and organs of state.
	<ul style="list-style-type: none"> • All issues raised and comments received during the circulation of the draft BAR from I&APs and organs of state which have jurisdiction in respect of the proposed activity are adequately addressed in the final BAR, including comments from this Department, and must be incorporated into a Comments and Response Report; 	All issues raised and comments received have been included and addressed in this Comments and Responses Report (this table).
	<ul style="list-style-type: none"> • Please submit the full page of the newspaper(s) containing the advertisement, ensuring that the information in the advert is legible 	Please refer to the 'Proof of Advertisements' section above.

BASIC ASSESSMENT REPORT

I&AP DETAILS	COMMENT	EAP RESPONSE
	and the name of the newspaper and date are visible.	
	<p>f) <u>Public Participation Process</u></p> <ul style="list-style-type: none"> Please provide coordinates for the preferred railway loop. These coordinates must include all the bend points of the loop from the starting point to the finishing point, and must be in degrees minutes and seconds. 	Please refer to Appendix J for a full list of coordinates for the preferred railway loop.
	<p><u>General</u></p> <p>You are reminded that the final BAR to be submitted to this Department must comply with all the requirements in terms of the scope of assessment and content of the basic assessment reports in accordance with Appendix 1 of the 2014 EIA Regulations, as amended.</p>	Please refer to Appendix J, 'Basic Assessment Requirements as per the 2014 NEMA EIA Regulations (as amended in 2017)'.
	<p>You are further reminded to comply with regulation 19(1)(a) of the 2014 EIA Regulations, as amended, which states that: <i>Where basic assessment must be applied to an application, the applicant must, within 90 days of receipt of the application by the competent authority, submit to the competent authority -</i></p> <p><i>(a) a basic assessment report, inclusive of specialist reports, an EMPr, and where applicable a closure plan, which have been subjected to a public participation process of at least 30 days and which reflects the incorporation of comments received, including any comments of the competent authority'</i></p>	Noted. The submission of this report includes a basic assessment report, inclusive of specialist reports and an EMPr, all of which have been subjected to a 30-day public participation process and reflect the incorporation of comments received, including comments from the competent authority (DEA).
	Should there be significant changes or new information that has been added to the basic assessment report or EMPr	Not Applicable. There are no significant changes and/or new information that has been added to the BAR or EMPr.

BASIC ASSESSMENT REPORT

I&AP DETAILS	COMMENT	EAP RESPONSE
	<p>which changes or information was not contained in the reports or plans consulted on during the initial public participation process, you would then be required to comply with regulation 19 (b) which states:</p> <p><i>“a notification in writing that the basic assessment report, inclusive of specialist reports an EMPr, and where applicable, a closure plan, will be submitted within 140 days of receipt of the application by the competent authority, as significant changes have been made or significant new information has been added to the basic assessment report or EMPr or, where applicable, a closure plan, which changes or information was not contained in the reports or plans consulted on during the initial public participation process contemplated in sub-regulation (1)(a) and that the revised reports or EMPr or, where applicable, a closure plan will be subjected to another public participation process of at least 30 days°.</i></p>	
	<p>Should you fail to meet any of the timeframes stipulated in Regulation 19 of the 2014 EIA Regulations, as amended, your application will lapse.</p>	<p>Noted. All timeframes stipulated in 2014 EIA Regulations (as amended) have been met.</p>
	<p>You are hereby reminded of Section 24F of the National Environmental Management Act, Act No 107 of 1998, as amended, that no activity may commence prior to an environmental authorisation being granted by the Department.</p>	<p>Noted.</p>

BASIC ASSESSMENT REPORT

Comments Received Following Notification of Intent to Apply for Environmental Authorisation

Comment dated 2 May 2018:

RE: Boshhoek Railway Line: Notification of Application for Environmental Authorisation - Message (HTML)

You replied to this message on 2018/05/02 02:15 PM.

From: Alan Agaienz (NR) <Agaienza@nra.co.za> Sent: Wed 2018/05/02 10:23 AM
To: 'Roberto Almanza'
Cc:
Subject: RE: Boshhoek Railway Line: Notification of Application for Environmental Authorisation

Receipt confirmed.

I will see whether our Planning department have comments.

AA

Alan Agaienz (NR)
Project Manager Design & Construction

The South African National Roads Agency (SOC)Limited (Reg No: 1998/009584/30) Northern Region 38 Ida Street, Menlo Park, Lynnwood Ridge, Gauteng, 0040,
D: 012 426 6211 | M: 079 502 3700
agaienza@nra.co.za | www.sanral.co.za

SANRAL

20 YEARS AND BEYOND

top EMPLOYER SOUTH AFRICA 2018

Please consider the environment before printing.

See more about: Alan Agaienz (NR).

EAP Response dated 2 May 2018:

RE: Boshhoek Railway Line: Notification of Application for Environmental Authorisation - Message (HTML)

From: Roberto Almanza <r.almanza@cesnet.co.za> Sent: Wed 2018/05/02 02:16 PM
To: 'Alan Agaienz (NR)'
Cc:
Subject: RE: Boshhoek Railway Line: Notification of Application for Environmental Authorisation

Dear Mr Agaienz

Noted, thank you.

Kind regards
Roberto

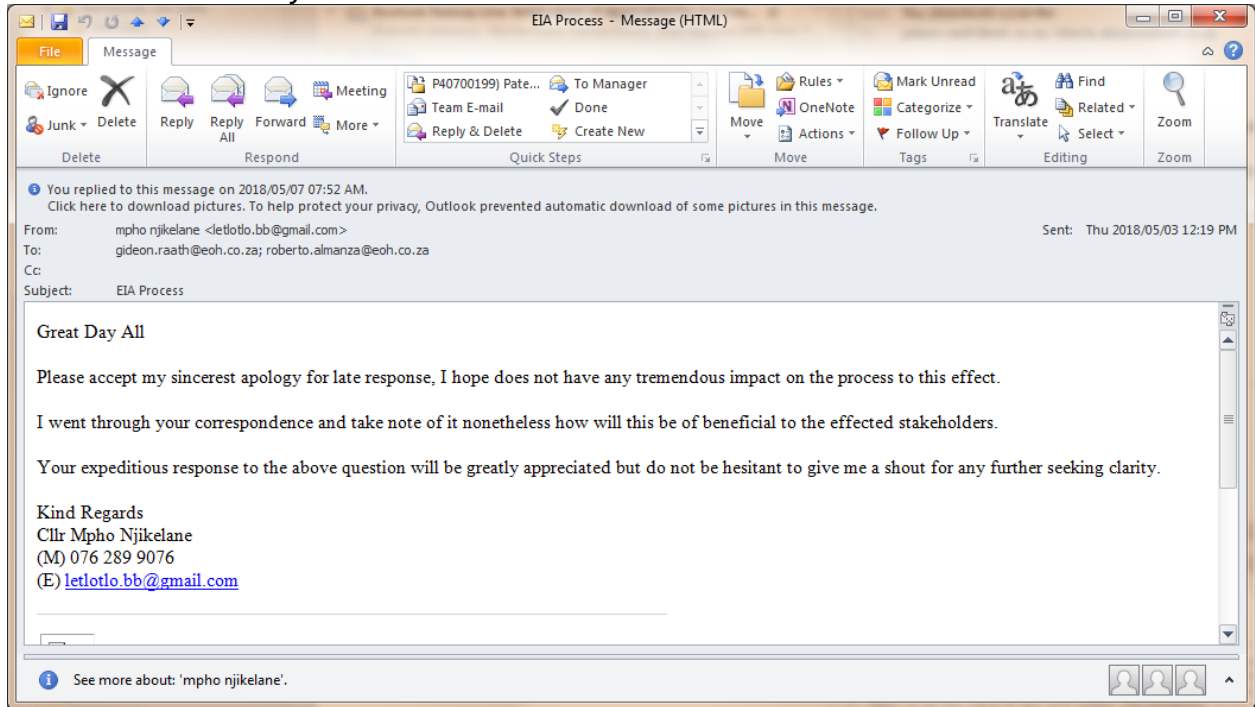
Roberto Almanza
Environmental Consultant
EOH Coastal & Environmental Services
Leaders in environmental and social advisory services
13 Stanley street, Richmond Hill
Port Elizabeth | Eastern Cape | South Africa
tel: +27 (41) 585 1715 | fax: +27 (86) 604 8781 | cell: +27 (82) 930 8711
roberto.almanza@eoh.co.za | www.eoh.co.za | www.cesnet.co.za

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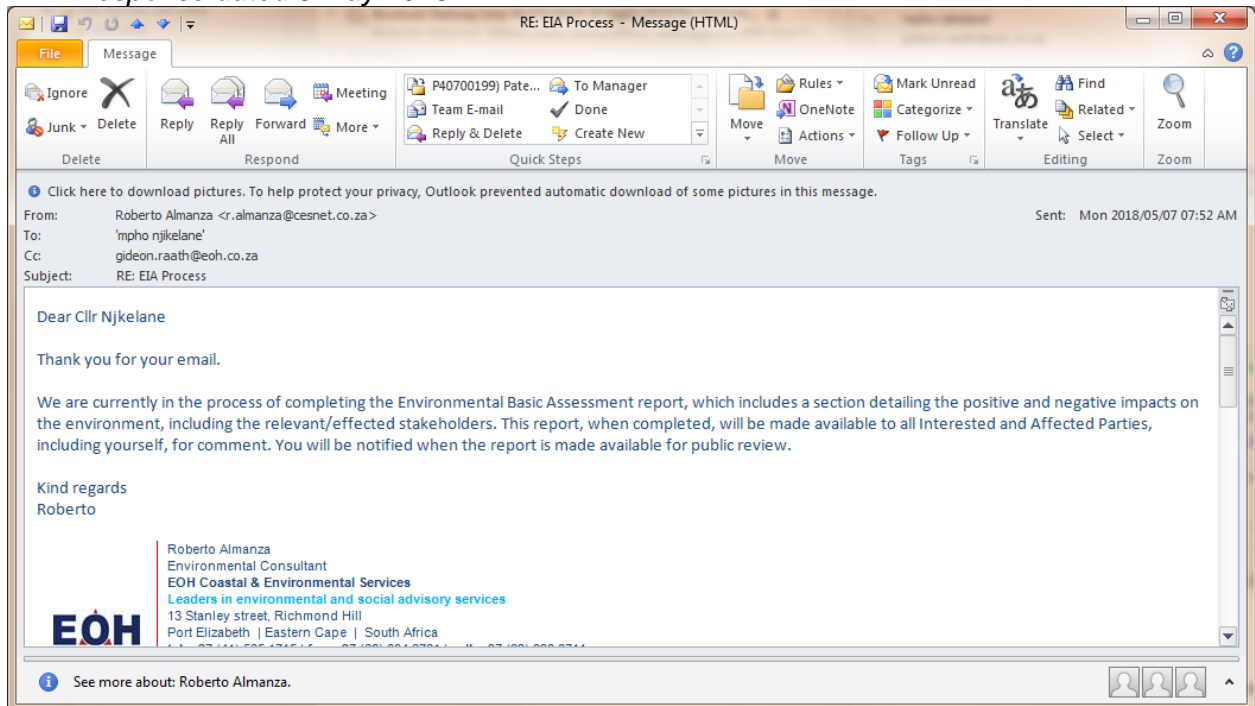
See more about: Roberto Almanza.

BASIC ASSESSMENT REPORT

Comment dated 3 May 2018:



EAP Response dated 5 May 2018:



BASIC ASSESSMENT REPORT

Comment dated 3 May 2018:

RE: Boshhoek Railway Line: Notification of Application for Environmental Authorisation - Message (HTML)

You replied to this message on 2018/05/07 07:55 AM.

From: Mjona Thato Danny (GAU) <MjonaT@dws.gov.za> Sent: Thu 2018/05/03 02:42 PM
To: Roberto Almanza; edzisani.siphugu@transnet.net; Kopano.Ramoloto@transnet.net
Cc: 'Gideon Raath'; Roy de Kock; Mabitje Patience (GAU)
Subject: RE: Boshhoek Railway Line: Notification of Application for Environmental Authorisation

Message: SKM_C55818050314420.pdf (54 KB)

Good day.

Find the attached comments.

Regards

Thato Mjona
Department of Water & Sanitation
Private Bag X995, Pretoria, 0001
15 th floor, Bothongo Plaza-east, 285 Francis Baard (Schoeman) Street
Tel: +2712392-1499
Fax: +2712392-1408
Cell: +27834880655
e-mail: mjonat@dws.gov.za

BEWARE OF FRAUD!
ARE YOU SUSPICIOUS OF:
A request for quotations | A request for goods or services | A purchase order that you received
Verify any financial activity on our toll free number 0800 200 200 Or contact
Thandi Plaatjie - 012 336 8364, Julia Dirane - 012 336 7780, Anelie Ndamase - 012 336 7432

WATER IS LIFE - SANITATION IS DIGNITY Toll-Free 0800 200 200 www.dws.gov.za

water & sanitation
Department of Water and Sanitation
REPUBLIC OF SOUTH AFRICA

NDP

See more about: 'Mjona Thato Danny (GAU)'.

EAP Response dated 7 May 2018:

RE: Boshhoek Railway Line: Notification of Application for Environmental Authorisation - Message (HTML)

From: Roberto Almanza <r.almanza@cesnet.co.za> Sent: Mon 2018/05/07 07:56 AM
To: 'Mjona Thato Danny (GAU)'
Cc: 'Gideon Raath'; Roy de Kock; 'Mabitje Patience (GAU)'
Subject: RE: Boshhoek Railway Line: Notification of Application for Environmental Authorisation

Dear Mr Mjona

Your email and attached letter is noted, thank you.

Kind regards
Roberto

Roberto Almanza
Environmental Consultant
EOH Coastal & Environmental Services
Leaders in environmental and social advisory services
13 Stanley street, Richmond Hill
Port Elizabeth | Eastern Cape | South Africa
tel: +27 (41) 585 1715 | fax: +27 (86) 604 8781 | cell: +27 (82) 930 8711
roberto.almanza@eoh.co.za | www.eoh.co.za | www.cesnet.co.za

Consulting | Technology | Outsourcing

See more about: Roberto Almanza.

Attachment to Comment:



water & sanitation

Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA

North West Provincial Operations, 285 Francis Baard Street, Pretoria, Private Bag X995, Pretoria, 0001
Tel (012) 3921300, Fax: 012 392 2998, www.dwa.gov.z

Enquiries: P Mabitje
Email: MabitjeP@dws.gov.za

Tel: 012 392-1500
Fax: 012 392-1408
Ref no: 16/2/7/A220/B22

EOH Coastal & Environmental Services
Block D, Gillooly's View Office Park
1 Osborne Lane, Bedfordview
Johannesburg
2007

Attention: Gideon Raath

**BASIC ENVIRONMENTAL IMPACT ASSESSMENT FOR THE PROPOSED
TRANSNET SOC LTD BOSHOEK LOOP IN NORTH WEST PROVINCE.**

Reference is made to the Basic Environmental Impact Assessment Report dated April 2018. The Department of Water and Sanitation has evaluated the document and would like the following issues to be addressed in terms of the National Water Act, 1988 (Act 36 of 1998).

1. It is mentioned on page 3 of the report that based on the proximity of the nearby surface water resources, the proposed development will trigger section 21 (c) & (i) water uses which must be applied for, a risk matrix needs to be compiled in accordance with the General Authorization regulation (notice 509 of 2016) and submitted to the Department.
2. Any oil spillages, diesel or any other hazardous substance should be treated and disposed of at a permitted hazardous landfill site and the Department must be notified within 24 hours.
3. No construction or development should take place within the scale of 1:100 year flood line, riparian area or 500m from boundary of wetland without an authorization from this Department.
4. No activity should proceed prior to the necessary authorisation.

For any enquiries on the above comments, do not hesitate to contact this office on the above indicated contacts.

Yours sincerely

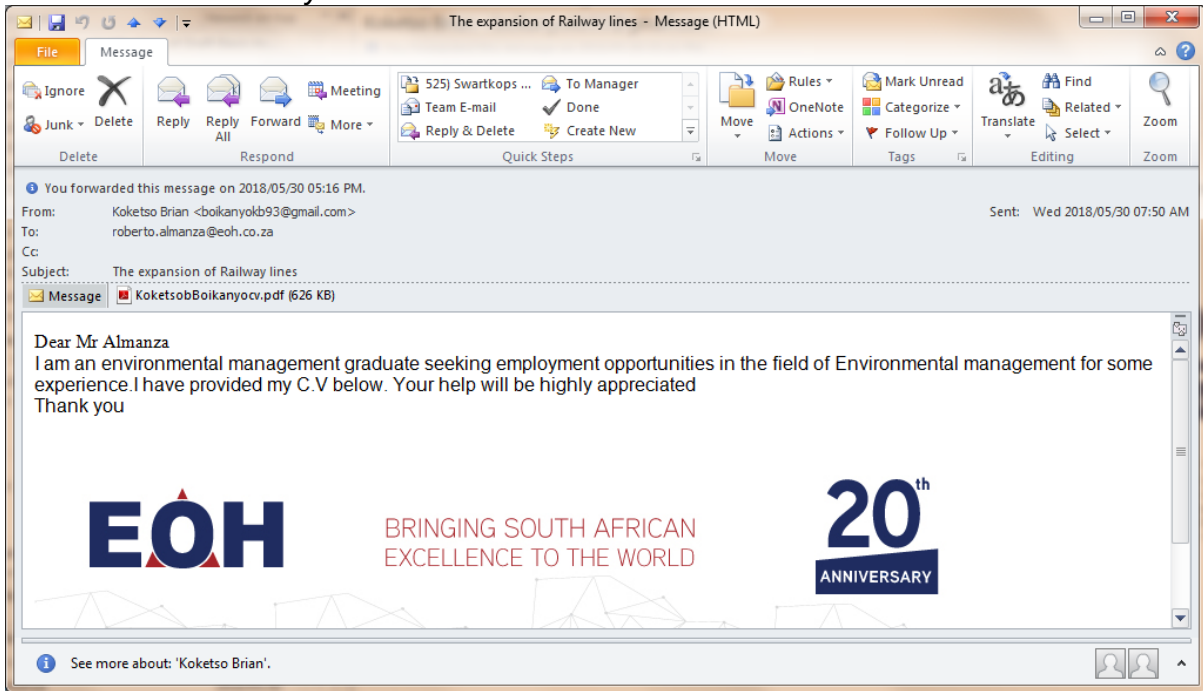
DIRECTOR: INSTITUTIONAL ESTABLISHMENT

DATE: 03/05/2018

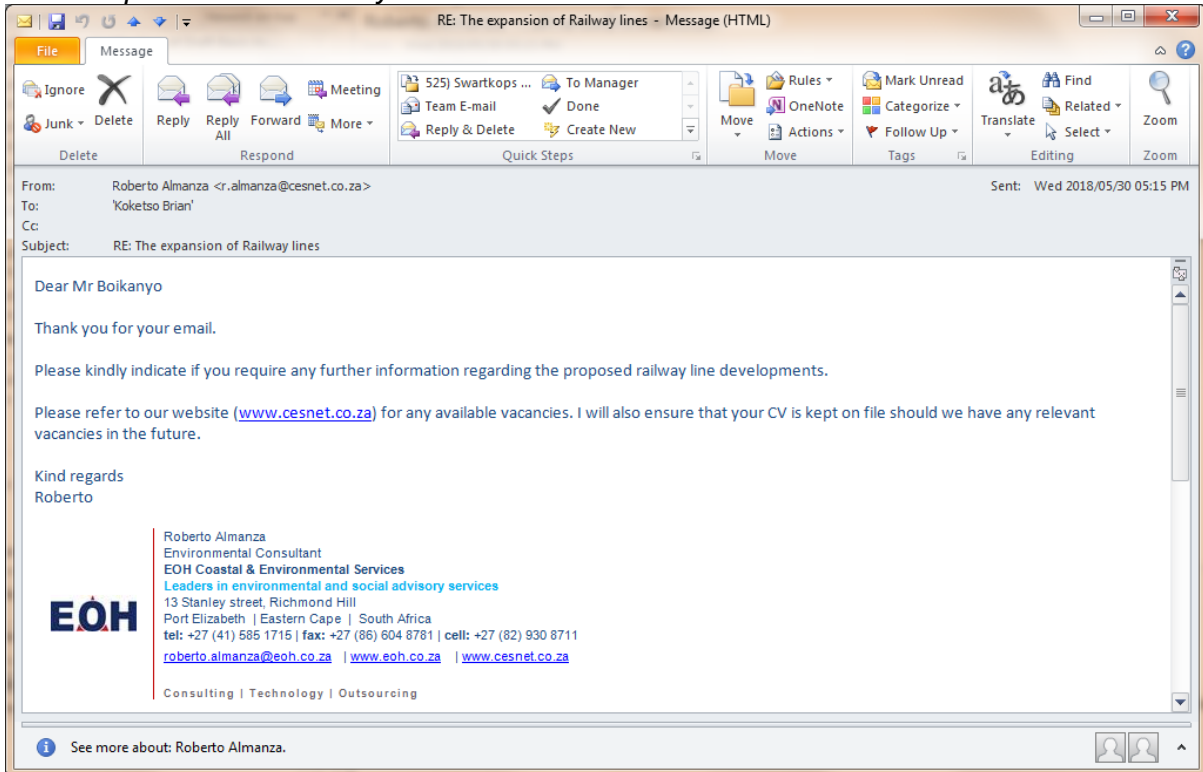
BASIC ASSESSMENT REPORT

Comments Received During the Public Review Period (25 May 2018 to 25 June 2018)

Comment dated 30 May 2018:



EAP Response dated 30 May 2018:



BASIC ASSESSMENT REPORT

Comment dated 25 May 2018:

Re: Boshhoek Railway Line: Notification of Draft Basic Assessment for Public Review - Message (HTML)

Message

You forwarded this message on 2018/05/29 05:25 PM.

From: mpho njikelane <letlotlo.bb@gmail.com> Sent: Fri 2018/05/25 08:09 PM

To: Roberto Almanza

Cc: edzisani.siphugu@transnet.net; Kopano.Ramoloto@transnet.net; Gideon Raath; Roy de Kock

Subject: Re: Boshhoek Railway Line: Notification of Draft Basic Assessment for Public Review

Message image001.jpg (2 KB)

Good Evening

Your mail is well received. I however wish to register my concerns as listed herebelow with your good self.

1. This project is within jurisdiction of Rustenburg Local Municipality but to my surprise most of documents for comments are positioned in Moses Kotane Local Municipality RCCs. Can you give tangible reasons why is that?
2. Your public participation meeting will also be held at Mogwase Community Hall in Moses Kotane Local Municipality which is 50kms to be precise from the interested and affected parties. Can you give tangible reasons why is that and how will interested and affected parties attend?

Hoping the above finds you well.

I am looking forward to your positive response expeditiously.

Regards
Cllr Mpho Njikelane
Ward 06
Rustenburg Local Municipality
T: 076 289 9076
E: letlotlo.bb@gmail.com

See more about: mpho njikelane.

EAP Response dated 31 May 2018:

Re: Boshhoek Railway Line: Notification of Draft Basic Assessment for Public Review - Message (HTML)

Message

From: Gideon Raath <Gideon.Raath@eoh.com> Sent: Thu 2018/05/31 09:45 AM

To: mpho njikelane

Cc: edzisani.siphugu@transnet.net; Roy de Kock; Roberto Almanza

Subject: RE: Boshhoek Railway Line: Notification of Draft Basic Assessment for Public Review

Good day Councillor,

Thank you for getting in touch with us and apologies for the delay in response. Please see below my responses and let me know what you think.

Thank you,

EOH
Gideon Raath - M.Sc., Pr.Sci.Nat.
Environmental Consultant
EOH Coastal & Environmental Services
Leaders in environmental and social advisory services
Block D, Gitooty's View Office Park (EOH Business Park),
1 Osborne Lane, Bedfordview, Johannesburg, 2007.
Tel: +27 (11) 607 8389 | Fax: +27 (11) 616 9929 |
gideon.raath@eoh.com | www.eoh.co.za | www.cesnet.co.za
g.raath@cesnet.co.za (alternate)
Consulting | Technology | Outsourcing

From: mpho njikelane [mailto:letlotlo.bb@gmail.com]
Sent: 25 May 2018 08:09 PM
To: Roberto Almanza
Cc: edzisani.siphugu@transnet.net; Kopano.Ramoloto@transnet.net; Gideon Raath; Roy de Kock
Subject: Re: Boshhoek Railway Line: Notification of Draft Basic Assessment for Public Review

Good Evening

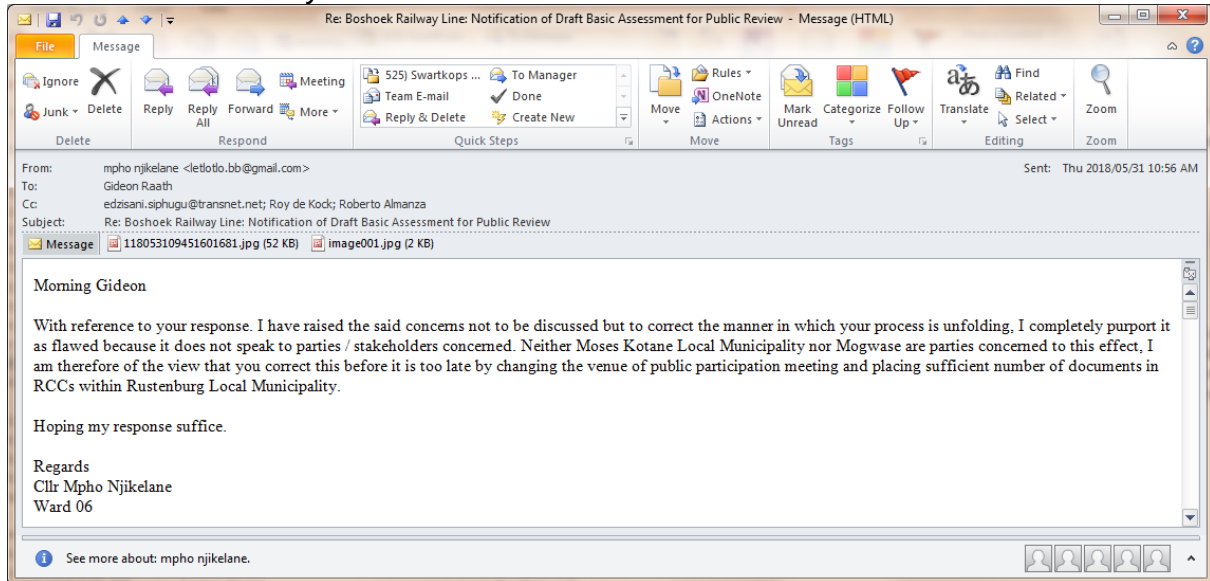
Your mail is well received. I however wish to register my concerns as listed herebelow with your good self.

1. This project is within jurisdiction of Rustenburg Local Municipality but to my surprise most of documents for comments are positioned in Moses Kotane Local Municipality RCCs. Can you give tangible reasons why is that? [We have also placed copies at the Rustenburg library, you are welcome to view the hard copies there. Alternatively, I can send you electronic copies of the draft BAR documents if you wish? Simply let me know which ones you want and I can load them onto drop box for you to download]
2. Your public participation meeting will also be held at Mogwase Community Hall in Moses Kotane Local Municipality which is 50kms to be precise from the interested and affected parties. Can you give tangible reasons why is that and how will interested and affected parties attend? [We determined the location based on the region with the most likely interaction, in this case Mogwase residents. We also had to take into account venue availability, cost and the likely amount of people attending, again which pointed to Mogwase as the best suited. I would suggest however, that we perhaps meet with you at your offices on the day of the meeting, perhaps before the meeting itself, to address your concerns? If that is preferable, could we arrange for 10am perhaps?]

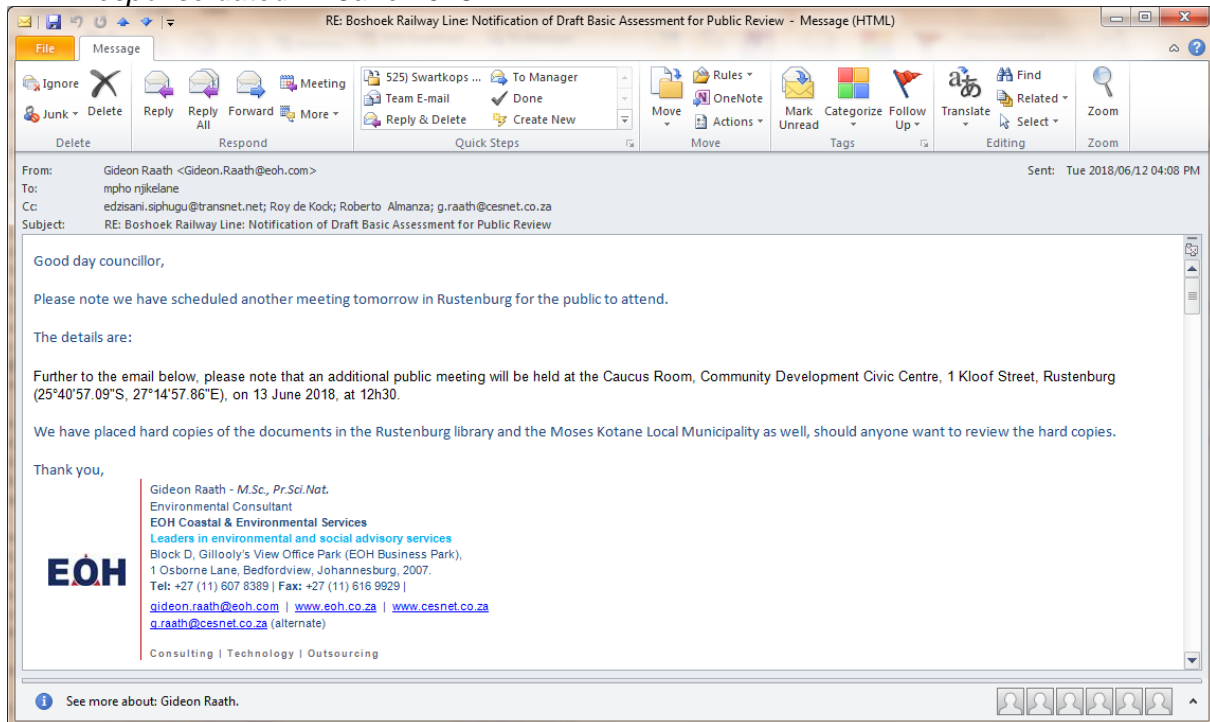
See more about: Gideon Raath.

BASIC ASSESSMENT REPORT

Comment dated 31 May 2018:



EAP Response dated 12 June 2018:



I&AP Response dated 12 June 2018:

From: mpho njikelane [<mailto:letlotlo.bb@gmail.com>]
Sent: 12 June 2018 05:16 PM
To: Gideon Raath
Subject: Re: Boshhoek Railway Line: Notification of Draft Basic Assessment for Public Review

Noted with many thanks.

On Tue, 12 Jun 2018, 16:08 Gideon Raath, <Gideon.Raath@eoh.com> wrote:

BASIC ASSESSMENT REPORT

Comment dated 14 June 2018:

FW: Boshhoek Railway Line: Notification of Draft Basic Assessment for Public Review - Message (HTML)

From: Malebabo Tsolo <MalebaboT@bafokengplatinum.co.za>
To: r.almanza@cesnet.co.za
Sent: Thu 2018/06/14 04:06 PM

Subject: FW: Boshhoek Railway Line: Notification of Draft Basic Assessment for Public Review

Good day,

Could you please register myself ('Malebabo Tsolo) and Tshego Tyira, we both work at Bafokeng Rasimone Platinum Mine (BRPM).

Our contact details are as follows:

'Malebabo Tsolo
Environmental Manager
Tel: (014) 573 1528
Cell: 082 470 2821
Fax: (014) 573 1583

Tshegofatso Tyira | Head: Corporate Sustainability
Tel | +27 (0) 10 590 4539
Cell | +27 (0) 83 259 1053
Fax to email | +27 (0) 86 210 9769
email | tyira@bafokengplatinum.co.za

Regards,
'Malebabo Tsolo

Our Youth, Our Future

Our investment in community education and skills development ensures that we develop the miners of tomorrow - our programmes include supporting maths and science learners at schools, gap-year programmes, experiential training, bursaries and our graduate development programme.

ROYAL BAFOKENG PLATINUM

Fraud & Corruption Hotline - 0800 007 396

EAP Response dated 18 June 2018:

RE: Boshhoek Railway Line: Notification of Draft Basic Assessment for Public Review - Message (HTML)

From: Roberto Almanza <r.almanza@cesnet.co.za>
To: 'Malebabo Tsolo'; 'tyira@bafokengplatinum.co.za'
Cc: Gideon Raath (Gideon.Raath@eoh.com)
Bcc: Roberto Almanza (r.almanza@cesnet.co.za)
Subject: RE: Boshhoek Railway Line: Notification of Draft Basic Assessment for Public Review

Sent: Mon 2018/06/18 07:55 AM

Dear Malebabo and Tshego

Thank you for registering as I&APs on the Boshhoek Railway Line Expansion project, North West province. The Draft Basic Assessment Report (DBAR) is available for review from 25 May 2018 to 25 June 2018 and is available on our website (<http://www.cesnet.co.za/transnet-soc-ltd-railway-line-expansion>). Kindly submit any comments relating to the project on or before 22 June 2018.

Kind regards,

EOH

Roberto Almanza
Environmental Consultant
EOH Coastal & Environmental Services
Leaders in environmental and social advisory services
13 Stanley street, Richmond Hill
Port Elizabeth | Eastern Cape | South Africa
tel: +27 (41) 585 1715 | fax: +27 (86) 604 8781 | cell: +27 (82) 930 8711
roberto.almanza@eoh.co.za | www.eoh.co.za | www.cesnet.co.za

Consulting | Technology | Outsourcing

Comment dated 7 June 2018:

Transnet Boshhoek Rail Corridor Expansion HIA

Our Ref:



an agency of the
Department of Arts and Culture

T. +27 21 462 4502 | F. +27 21 462 4509 | E. info@sahra.org.za
South African Heritage Resources Agency | 111 Harrington Street | Cape Town
P.O. Box 4537 | Cape Town | 8001
www.sahra.org.za

Enquiries: Natasha Higgitt
Tel: 021 462 4502
Email: nhiggitt@sahra.org.za
CaseID: 12476

Date: Thursday June 07, 2018
Page No: 1

Interim Comment

In terms of Section 38(3), 38(8) of the National Heritage Resources Act (Act 25 of 1999)

Attention: Mr Neels Kruger
Exigo Sustainability
Eulophia Corner Building 1
38 Gen. Van Reyneveld St
Persequor Park

ARCHAEOLOGICAL IMPACT ASSESSMENT (AIA) OF DEMARCTED AREAS ON A PORTION OF BOSCHHOEK 103JQ FOR THE PROPOSED TRANSNET BOSHOEK RAILWAY LOOP PROJECT IN THE BOJANALA PLATINUM DISTRICT MUNICIPALITY, NORTH WEST PROVINCE

EOH Coastal and Environmental Services has been appointed by Transnet Group Capital to conduct an Environmental Authorisation (EA) Application process for the proposed Boshhoek Rail Loop, near Boshhoek, North West Province. A Basic Assessment Report (BAR) will be completed in terms of the National Environmental Management Act, 1998 (NEMA) and the 2017 NEMA Environmental Impact Assessment (EIA) Regulations. The proposed development will include the construction of a 1.671 km rail loop along the existing railway line. The construction activities will also include track work, doubling of the existing line and the expansion of a bridge, installation of culverts, stockpiling and site camp.

Exigo Sustainability has been appointed to provide heritage input into the BAR process.

Kruger, N. 2018. Archaeological Impact Assessment: Proposed Transnet Boshhoek Railway Loop Project in the Bojanala Platinum District Municipality, North West Province.

A total of eight heritage resources were identified in the proposed development area. These include a probable recent dwelling, historical box culverts, a historical bridge and a grave.

Recommendations provided in the report includes the following:

- Monitor (Site EXIGO-TBL-FT01) during construction in order to avoid the destruction of previously undetected heritage remains;
- The historical box culverts and historical bridge will require permits before alterations can be

BASIC ASSESSMENT REPORT

Transnet Boshhoek Rail Corridor Expansion HIA

Our Ref:



an agency of the
Department of Arts and Culture

T: +27 21 462 4502 | F: +27 21 462 4509 | E: info@sahra.org.za
South African Heritage Resources Agency | 111 Harrington Street | Cape Town
P.O. Box 4507 | Cape Town | 8001
www.sahra.org.za

Enquiries: Natasha Higgitt
Tel: 021 462 4502
Email: nhiggitt@sahra.org.za
CaseID: 12476

Date: Thursday June 07, 2018
Page No: 2

- completed;
- The grave is located 7 m from the proposed development. A buffer of 50 m is recommended; however, the nature and extent of the developments pose a significant risk, and therefore the grave is recommended to be mitigated. This will include relocation of the grave following a social consultation process and the application for a grave relocation permit;
- Monitoring of all phases of the project by the Environmental Control Officer (ECO) is recommended. Should any subsurface paleontological, archaeological or historical material, or burials be exposed during construction activities, all activities should be suspended, and the archaeological specialist should be notified immediately.

Interim Comment

The SAHRA Archaeology, Palaeontology and Meteorites (APM) Unit notes that the proposed development is located in an area of insignificant sensitivity in terms of paleontological resources. Therefore, no further assessment of the impact to paleontological resources is required. The draft BAR and appendices must be submitted to the SAHRIS Case application so that an informed comment may be issued.

Further comments will be issued upon receipt of the above.

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

Yours faithfully

Natasha Higgitt
Heritage Officer
South African Heritage Resources Agency

Transnet Boshhoek Rail Corridor Expansion HIA

Our Ref:



an agency of the
Department of Arts and Culture

T. +27 21 462 4502 | F. +27 21 462 4509 | E. info@sahra.org.za
South African Heritage Resources Agency | 111 Harrington Street | Cape Town
P.O. Box 4537 | Cape Town | 8001
www.sahra.org.za

Enquiries: Natasha Higgitt
Tel: 021 462 4502
Email: nhiggitt@sahra.org.za
CaseID: 12476

Date: Thursday June 07, 2018
Page No: 3

Phillip Hine
Acting Manager: Archaeology, Palaeontology and Meteorites Unit
South African Heritage Resources Agency

ADMIN:
Direct URL to case: <http://www.sahra.org.za/node/503931>

BASIC ASSESSMENT REPORT

EAP Response dated 18 June 2018:

You 24 sec ago **Delete**

Good morning Natasha,
I trust that this message finds you well.
The above Case refers. Please note that I have uploaded the draft BAR and appendices for the Transnet Boshhoek Rail Corridor Expansion AIA (Case 12477) to the SAHRIS Case application. The client indicated that the public review period for the Draft report runs from 25 May 2018 to 25 June 2018 and they enquired about the possibility of finalizing the Review Comment from SAHRA for this Case this week, for inclusion in the Final BAR?

Thank you for the assistance Natasha.

Best regards,
Neels Kruger

CaseReference:
Transnet Boshhoek Rail Corridor Expansion HIA

Comment dated 26 June 2018 (DEA Comments):

FW: 14/12/16/3/3/1/1921 - Message (HTML)

File Message Tell me what you want to do

Ignore Delete Archive Reply Reply Forward Meeting Move to: ? To Manager Team Email Done Reply & Delete Create New OneNote Mark Unread Categorize Follow Up Translate Related Select Zoom

GR Gideon Raath <Gideon.Raath@eoh.com> Roberto Almanza 1 11:56
FW: 14/12/16/3/3/1/1921

14-12-16-3-3-1-1921.pdf 124 KB

To: Gideon Raath; Andries.vanRoss@transnet.net; pkrisjan@nwpe.gov.za; Letlotlo.bb@gmail.com; m.nikelane@rustenburg.gov.za
Cc: Samkeliswe Dlamini; EIAAdmin
Subject: 14/12/16/3/3/1/1921


Good day.

Please find herein the attached letter for the above mentioned.

I hope you find all in order.

Thank you.

Kind Regards,
EIA Admin
Integrated Environmental Authorisations:
Coordination, Strategic Planning and Support
Tel: (012) 399 8630 / (012) 399 8578
Email: EIAAdmin@environment.gov.za

 **environmental affairs**
Department
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

Attachment to Comment:



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

Private Bag X 447· PRETORIA · 0001· Environment House · 473 Steve Biko Road, Arcadia,· PRETORIA
Tel (+ 27 12) 399 9372

DEA Reference: 14/12/16/3/3/1/1921

Enquiries: Bathandwa Ncube

Telephone: (012) 399 9368 E-mail: BNcube@environment.gov.za

Mr Gideon Raath
EOH Coastal and Environmental Services
Block D, Gillooly's View Office Park (EOH Business Park)
1 Osborne Lane
BEDFORDVIEW
2007

Tel : 011 607 8389
Email : Gideon.raath@ech.co.za

PER E-MAIL / MAIL

Dear Mr Raath

COMMENTS ON THE DRAFT BASIC ASSESSMENT REPORT FOR THE PROPOSED BOSHOEK RAILWAY LOOP AND ASSOCIATED INFRASTRUCTURE, WITHIN THE RUSTENBURG LOCAL MUNICIPALITY, NORTH WEST PROVINCE

The draft Basic Assessment Report (BAR) dated May 2018 and the application form received by the Department on 24 May 2018, refer.

This Department has the following comments on the abovementioned application:

a) Listed activities

- Activity 48 of GN R.983 (as amended) has been incorrectly quoted as Activity 40, in the application form. Please ensure that all activities are quoted correctly.
- Activity 12, and 40 of GN R.983 (as amended), as well as 10 of GN R.985 (as amended) have been applied for in the application form, but have not been included in the draft BAR dated May 2018. If the activities applied for in the application form differ from those mentioned in the final BAR, an amended application form must be submitted for final review and decision making.

b) Content of the Basic Assessment

Please note that the BAR template has been removed (letter with the details is attached). Please make sure that the content of the final BAR must be in accordance with the requirements contained in Regulation 19 and Appendix 1 of the 2014 EIA Regulation, as amended.

c) Environmental Management Programme (EMPr)

- The EMPr must not contain any ambiguity. Where applicable, statements containing the word "should" or "may" are to be amended to "must".
- Recommendations and mitigation measures recorded in the final BAR, including those from specialist studies, must be incorporated as part of the final EMPr.

d) Specialist Studies

- Where specialist studies are conducted in-house or by a specialist other than a suitably qualified specialist in the relevant field, such specialist reports must be peer reviewed by a suitably qualified external specialist in the relevant field. The terms of reference for the peer review must include:
 - A CV clearly showing expertise of the peer reviewer;
 - Acceptability of the terms of reference;
 - Is the methodology clearly explained and acceptable;
 - Evaluate the validity of the findings (review data evidence);
 - Discuss the suitability of the mitigation measures and recommendations;
 - Identify any short comings and mitigation measures to address the short comings;
 - Evaluate the appropriateness of the reference literature;
 - Indicate whether a site-inspection was carried out as part of the peer review; and
 - Indicate whether the article is well-written and easy to understand.

e) Public Participation Process

- Comments must be obtained from the Biodiversity and Conservation unit of this Department;
- Please ensure that copies of original comments received from I&APs and organs of state, which have jurisdiction in respect of the proposed activity are submitted to the Department with the Final BAR;
- Proof of correspondence with the various stakeholders, including organs of state which have jurisdiction in respect of the proposed activity, must be included in the final BAR. Should you be unable to obtain such comments, proof should be submitted to the Department of the attempts that were made to obtain the comments;
- All issues raised and comments received during the circulation of the draft BAR from I&APs and organs of state which have jurisdiction in respect of the proposed activity are adequately addressed in the final BAR, including comments from this Department, and must be incorporated into a Comments and Response Report;
- Please submit the full page of the newspaper(s) containing the advertisement, ensuring that the information in the advert is legible and the name of the newspaper and date are visible.

f) Public Participation Process

- Please provide coordinates for the preferred railway loop. These coordinates must include all the bend points of the loop from the starting point to the finishing point, and must be in degrees minutes and seconds.

BASIC ASSESSMENT REPORT

General

You are reminded that the final BAR to be submitted to this Department must comply with all the requirements in terms of the scope of assessment and content of the basic assessment reports in accordance with Appendix 1 of the 2014 EIA Regulations, as amended.

You are further reminded to comply with regulation 19(1)(a) of the 2014 EIA Regulations, as amended, which states that:

"Where basic assessment must be applied to an application, the applicant must, within 90 days of receipt of the application by the competent authority, submit to the competent authority -

(a) a basic assessment report, inclusive of specialist reports, an EMPr, and where applicable a closure plan, which have been subjected to a public participation process of at least 30 days and which reflects the incorporation of comments received, including any comments of the competent authority"

Should there be significant changes or new information that has been added to the basic assessment report or EMPr which changes or information was not contained in the reports or plans consulted on during the initial public participation process, you would then be required to comply with regulation 19 (b) which states:

"a notification in writing that the basic assessment report, inclusive of specialist reports an EMPr, and where applicable, a closure plan, will be submitted within 140 days of receipt of the application by the competent authority, as significant changes have been made or significant new information has been added to the basic assessment report or EMPr or, where applicable, a closure plan, which changes or information was not contained in the reports or plans consulted on during the initial public participation process contemplated in sub-regulation (1)(a) and that the revised reports or EMPr or, where applicable, a closure plan will be subjected to another public participation process of at least 30 days".

Should you fail to meet any of the timeframes stipulated in Regulation 19 of the 2014 EIA Regulations, as amended, your application will lapse.

You are hereby reminded of Section 24F of the National Environmental Management Act, Act No 107 of 1998, as amended, that no activity may commence prior to an environmental authorisation being granted by the Department.

Yours faithfully



Mr Sabelo Malaza

Chief Director: Integrated Environmental Authorisations

Department of Environmental Affairs

Signed by: Ms. Pumeza Skepe-Mngcila

Designation: Deputy Director: IPS & S24G

Date: 28/06/2018

cc:	Transnet SOC Limited	Andries van Ross	Tel: 011 308 1681	Email: Andries.VanRoss@transnet.net
	NWDRE&AD	Portia Krisjan	Tel: 018 389 5146	Email: pkrisjan@nwpg.gov.za
	Rustenburg Local Municipality	M. Njikelane	Tel: 014 590 3111	Email: Letlotlo.bb@gmail.com m.nikelane@rustenburg.gov.za

BASIC ASSESSMENT REPORT

EAP Response dated 26 June 2018:

The screenshot shows an Outlook email window titled "P279&P280] Biodiversity comments on dBAR - TRANSNET - Message (HTML)". The interface includes a ribbon with "File" and "Message" tabs, and a "Tell me what you want to do" search bar. The ribbon contains various action buttons such as Ignore, Delete, Archive, Reply, Forward, Meeting, Move to?, Team Email, Reply & Delete, To Manager, Done, Create New, Rules, OneNote, Mark Unread, Categorize, Follow Up, Translate, Find, Related, Select, and Zoom. The email header shows the sender as "Gideon Raath <Gideon.Raath@eoh.com>" and the subject as "P279&P280] Biodiversity comments on dBAR - TRANSNET". A notification indicates "This message was sent with High importance." The email body contains four PDF attachments: "DEA Acknowledgement_Boshoek.pdf" (58 KB), "DEA Acknowledgement_Heysterkrand.pdf" (59 KB), "Boshoek DEA dBAR Receipt.pdf" (39 KB), and "Heysterkrand DEA dBAR Receipt.pdf" (40 KB). Below the attachments are two more PDF files: "14-12-16-3-3-1-1921.pdf" (123 KB) and "14-12-16-3-3-1-1922.pdf" (92 KB). The text of the email reads: "Good day Stanley, Thanks for contacting me earlier – much appreciated. You indicated that your officials are off sick this week and so you won't be able to get comments on these two applications through to us this week. You also then directed us to submit the final BAR reports, and that you will then send your comments through to the case officer's directly. You also asked me to give you the contact details for the case officers, please see these below. Finally, could I please ask you send your comments to us as well when you send them to the case officer, so we have a copy on hand as well?" A table of contact details follows:

Transnet Boshoek Loop Rail Upgrade DEA Case Number: 14/12/16/3/3/1/1921 Officer: Ms Bathandwa Ncube Tel: 012 399 9368 Email: bncube@environment.gov.za Branch: DEA Pretoria Head Office
Transnet Heysterkrand Loop Rail Upgrade DEA Case Number: 14/12/16/3/3/1/1922 Officer: Ms Samkelisiwe Dlamini Tel: 012 399 9379 Email: sdlamini@environment.gov.za Branch: DEA Pretoria Head Office

Thank you,

Attachment to EAP Response:



Coastal & Environmental Services

Chief Directorate: Integrated Environmental Authorisations
Department of Environmental Affairs (DEA)
Attention: Director: Integrated Environmental Authorisation
Private Bag X447
Pretoria
0001

25 May 2018

APPLICATION FOR ENVIRONMENTAL AUTHORISATION:
TRANSNET SOC LTD PROPOSED BOSHOEK RAILWAY LOOP, NORTH WEST PROVINCE

EOH Coastal and Environmental Services (EOH CES) has been appointed by Transnet SOC Ltd to conduct the application for environmental authorisation for the abovementioned project.

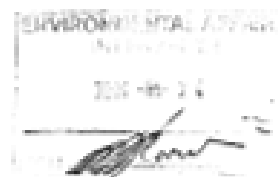
Please find enclosed the Application form as per the National Environmental Management Act (Act 107 of 1998, as amended) as well as the Draft Basic Assessment report and EMPr as per the 2014 EIA Regulations (as amended in April 2017).

The commenting period will stretch from 25 May 2018 until 25 June 2018. **Kindly submit any comments relating to the project on or before 22 June 2018.**

For more information, please feel free to contact:
Mr Gideon Raath and/or Mr Roberto Almanza
Tel: (011) 607 8389 | (041) 585 1715
E-mail: gideon.raath@eoh.co.za | roberto.almanza@eoh.co.za

Kind regards,

Mr Roberto Almanza
Environmental Consultant
EOH Coastal & Environmental Services



Coastal and Environmental Services (Pty) Ltd
T +27 11 607 8389 | F +27 11 616 9929
EOH Business Park, Gillooly's View, 1 Osborne Lane, Bedfordview, 2007 | PO Box 58, Bruma 2026
Reg no: 2012/151672/07 | a member of the EOH Group of Companies
www.eoh.co.za | www.transnet.co.za

Directors: Z Maysi, JW King, and AM Aids.

BASIC ASSESSMENT REPORT

REGISTERED I&APs

A full list of the current I&APs is included below.

Name	Affiliation	Email	Contact No	Postal Address
Royal Bafokeng Nation		info@bafokeng.com	014 566 1200	PO Box 55669, Northlands, Johannesburg, 2116
Denise Fuls	Landowner: South African Ferrochrome & Mining Pty Ltd	denise.fuls@glencore.co.za	014 573 1200	PO Box 4534, Brits, 0250, South Africa
Government	Organisation	Email	Contact No	Postal
Mpho Monyai	Department of Environmental Affairs (DEA)	Mmonyai@environment.gov.za	012 399 9413	Private bag X 447 Pretoria, 0001. Environment House, 473 Steve Biko Road, Arcadia, Pretoria, 0001
Dakalo Netshiombo	Department of Environmental Affairs (DEA)	DNetshiombo@environment.gov.za	012 399 8877	473 Steve Biko road, Arcadia, Pretoria.0083
Ms Rose Masela	Department of Environmental Affairs (DEA) - Biodiversity	rmasela@environment.gov.za	012 399 9511	Department of Environmental Affairs, A2-2-14, 473 Steve Biko Rd, Environmental House, Pretoria
Danie Smit	DEA: Integrated Environmental Authorisations (Protected Areas)	Dsmit@environment.gov.za	012 310 3659	Private Bag X447, Pretoria, 0001
Ms Toinette Van der Merwe	Department of Environmental Affairs (DEA)	tvandermerwe@environment.gov.za	012 395 1782	Department of Environmental Affairs, A2-2-14, 473 Steve Biko Rd, Environmental House, Pretoria.
Ms Mmatlala Rabothata	Department of Environmental Affairs (DEA)	MRabothata@environment.gov.za	012 399 9174	P/Bag x 447, Pretoria, 0001
Mr Ernest Mokganedi	Department of Environmental Affairs (DEA) - Protected Areas Section	emokganedi@environment.gov.za	012 399 9522	Department of Environmental Affairs, A2-2-14, 473 Steve Biko Rd, Environmental House, Pretoria.
Ms Nozipho Khuzwayo	Department of Transport	KhuzwayL@dot.gov.za	012 309 3091	Private Bag X193, Pretoria, 0001
Ms Zandile Maseko	Department of Transport	MasekoZ@dot.gov.za	012 309 3433 082 410 4510	
Mr Khayaletu Matrose	Department of Mineral Resources (DMR)	khayaletu.matrose@dmr.gov.za	012 444 3308	Private Bag X59, ARCADIA, 0007
Organs of State	Organisation	Email	Contact No	Postal
Mr Ndlelenhle Zindela	Department of Mineral Resources (DMR)- North West	ndlelenhle.zindela@dmr.gov.za	018 487 9830	Private Bag A 1, KLERKSDORP, 2570
Ms I Wesi	Department of Mineral Resources (DMR)- North West	lpeleng.Wesi@dmr.gov.za	018 487 9831	
Thozama Basa	Department of Mineral Resources (DMR)- North West	thozama.basa@dmr.gov.za	018 487 4325	
Mr T Phalala	Department of Mineral Resources (DMR)- North West	tshilidzi.phalala@dmr.gov.za	018 487 9830	Private Bag A 1, KLERKSDORP, 2570
Phumudzo Nethwadzi	Department of Mineral Resources (DMR)- North West	phumudzo.nethwadzi@dmr.gov.za	019 487 9830	Private Bag A 1, KLERKSDORP, 2571
Mr Ntlhopang Dikobe	Department of Community Safety & Transport Management	ndikobe@nwpg.gov.za	018 200 8003 018 200 8020	Tirelo Building, Albert Lithuli Drive, Mahikeng, 2735
Ms Botlhale Mofokeng	Department of Community Safety &	bmofokeng@nwpg.gov.za	018 200 8001	

BASIC ASSESSMENT REPORT

	Transport Management		018 200 8009	
Dr Tseliso Ntili	North West Department Water Affairs,	NtiliT@dws.gov.za	018 387 9500 082 803 3204	Private Bag X5, Mmabatho, 2735
Ms Wendy Ralekoa	North West Department Water Affairs,	RalekoaW@dws.gov.za	082 875 4158	Private Bag X5, Mmabatho, 2735
Mr. J Maluleke	North West Department Water Affairs,	malulekej@dws.gov.za	012 392 1409	Private Bag X5, Mmabatho, 2736
Tshegofatso Lekgari	Department of Rural, Environment and agricultural and development	tshegolekgari@nwpg.gov.za	014 597 3597	Private Bag X5, Mmabatho, 2735
Ms. Portia Krisjan	Department of Rural, Environment and agricultural and development	pkrijan@nwpg.gov.za	018 389 5929 082 658 0159	AgriCentre Building, Private Bag X2039, Mmabatho, 2735
Percy Matlapeng	Department of Rural, Environment and agricultural and development	pmatlapeng@nwpg.gov.za	014 597 3597 076 494 1012	Private Bag X5, Mmabatho, 2735
Key Stakeholders	Organisation	Email	Contact No	Postal
Mr P Shwikwane	Bojanala Platinum District Municipality	pogisos@bojanala.go.za	014 590 4502	PO Box 1993, Rustenburg, 0300
Clr Nicholas Rakolle	Bojanala Platinum District Municipality	nickrakolle@gmail.com	082 875 4158	PO Box 1993, Rustenburg, 0300
Obert Mollele	Rustenburg Local Municipality	o.mollele@rustenburgrapidtransport.co.za o.molele@rustenburg.gov.za	014 590 3692 079 416 8954	P O Box 16, Rustenburg, 0300
	Rustenburg Local Municipality	pmongae@rustenburg.gov.za	014 590 3066	
A Malla	Rustenburg Local Municipality	a.malla@rustenburg.gov.za	078 622 7901	
Mampho Njikelane	Rustenburg Local Municipality	m.njikelane@rustenburg.gov.za letlotlo.bb@gmail.com	076 289 9076	
Maria Mokgosi	Rustenburg Local Municipality	executive.mayor@rustenburg.gov.za	014 590 3004	
Mr Alan Aganz	SANRAL SOC LTD	AgaienzA@nra.co.za	012 426 6211	
Daniel Marnewick	BirdLife South Africa	daniel.marnewick@birdlife.org.za	011 789 1122	Private Bag X16, Pinegowrie, 2123
Dr Hanneline Smit-Robinson	BirdLife South Africa	conservation@birdlife.org.za	011 789 1122	
Jacob Madumo	Eskom: Region 2	MadumoJL@eskom.co.za	011 800 8111	PO Box 1091, Johannesburg, 2001
Sibongo Simelane		Simelajs@eskom.co.za		
Zanele Kamwendo		KamwenZ@eskom.co.za		
Ravi Moonsamy		MoonsaR@eskom.co.za		
Moreetsi Balepile		BalepiMA@eskom.co.za		
Lebohang Motai		MotoaiLS@eskom.co.za		
Julia Swanepoel	Anglo American platinum	Julia.swanepoel@angloamerican.com	011 638 2210	PO Box 62179, Marshalltown, 2107
K Phiri	Sedibelo Platinum Mines Limited	kphiri@sedibeloplatinum.com	014 555 1800	Private Bag X11, Highveld, South Africa, 0067
John Bolton	Total Pilanesberg Motors	pilanesbergmotors@gmail.com	072 514 7444	PO Box 579, Saxonwold, Sandton, 2132
Registered I&Aps	Organisation	Email	Contact No	Postal
Malebabo Tsolo	Bojanala Platinum District Municipality	MalebaboT@bafokengplatinum.co.za	014 573 1528	PO Box 1993, Rustenburg, 0300
Tshegofatso Tyira	Bojanala Platinum District Municipality	tyira@bafokengplatinum.co.za	010 590 4539	

APPENDIX F

IMPACT ASSESSMENT

IMPACT ASSESSMENT METHODOLOGY

Methodology for Assessing the Significance of Impacts

Positive or Negative: The impact is first classified as a positive or negative impact. The impact then undergoes an evaluation according to a set of criteria.

Evaluation Criteria:

Effect	Temporal Scale		
	Short term	Less than 5 years	
	Medium term	Between 5 and 20 years	
	Long term	Between 20 and 40 years (a generation) and from a human perspective also permanent	
	Permanent	Over 40 years and resulting in a permanent and lasting change that will always be there	
	Spatial Scale		
	Localised	At localised scale and a few hectares in extent	
	Study Area	The proposed site and its immediate environs	
	Regional	District and Provincial level	
	National	Country	
	International	Internationally	
	Severity	<i>Severity</i>	<i>Benefit</i>
	Slight	Slight impacts on the affected system(s) or party(ies)	Slightly beneficial to the affected system(s) and party(ies)
Moderate	Moderate impacts on the affected system(s) or party(ies)	Moderately beneficial to the affected system(s) and party(ies)	
Severe/Beneficial	Severe impacts on the affected system(s) or party(ies)	Substantially beneficial to the affected system(s) and party(ies)	
Very Severe/ Beneficial	Very severe impacts on the affected system(s) or party(ies)	Very substantially beneficial to the affected system(s) and party(ies)	
Likelihood	Likelihood		
	Unlikely	The likelihood of these impacts occurring is slight	
	May Occur	The likelihood of these impacts occurring is possible	
	Probable	The likelihood of these impacts occurring is probable	
	Definite	The likelihood is that this impact will definitely occur	

Description of Impact Significance:

Significance Rate		Description
Low	Low +	An acceptable impact for which mitigation is desirable but not essential. The impact by itself is insufficient even in combination with other low impacts to prevent the development being approved. These impacts will result in either positive or negative medium to short term effects on the social and/or natural environment
Moderate	Moderate +	An important impact which requires mitigation. The impact is insufficient by itself to prevent the implementation of the project but which in conjunction with other impacts may prevent its implementation. These impacts will usually result in either a positive or negative medium to long term effect on the social and/or natural environment
High	High +	A serious impact, if not mitigated, may prevent the implementation of the project (if it is a negative impact). These impacts would be considered by society as constituting a major and usually long-term change to the (natural and/or social) environment and result in severe effects or beneficial effect.
Very High	Very High +	A very serious impact which, if negative, may be sufficient by itself to prevent implementation of the project. The impact may result in permanent change. Very often these impacts are immitigable and usually result in very severe effects, or very beneficial effects.

IMPACT ASSESSMENT

Construction Phase Impacts:

ISSUE	IMPACT	ALTERNATIVE	NATURE OF IMPACT	SPATIAL SCALE (EXTENT)	TEMPORAL SCALE (DURATION)	CERTAINTY SCALE (LIKELIHOOD)	SEVERITY/BENEFICIAL SCALE	SIGNIFICANCE PRE-MITIGATION	MITIGATION MEASURES	SIGNIFICANCE POST-MITIGATION
Loss of Natural Vegetation	During the construction phase the clearing of natural vegetation outside the approved development footprint will lead to the unnecessary loss of natural vegetation and habitat for other taxonomic groups.	Preferred Alternative	Direct	Localised	Medium Term	May Occur	Moderate	MODERATE-	<ul style="list-style-type: none"> The construction footprint must be surveyed and demarcated prior to construction commencing. No construction activities will be allowed outside the demarcated footprint. Where vegetation has been cleared, site rehabilitation in terms of soil stabilisation and vegetation must be undertaken. Cleared vegetation must not be piled on top of natural vegetation but must be stockpiled temporarily on bare ground and used as ground cover during rehabilitation. Alternatively, the cleared vegetation can be given to local residents as a source of firewood. 	LOW-
Loss of SCC	During the construction phase the clearing of natural vegetation will lead to the destruction of habitats and identified and unidentified plant and animal SCC.	Preferred Alternative	Direct	Study Area	Medium Term	Definite	Moderate	MODERATE-	<ul style="list-style-type: none"> All areas that will be impacted must be surveyed and demarcated by a suitably qualified specialist prior to vegetation and topsoil removal in order to locate and rescue any SCC within the area and relocate them. The contractor's staff must not poach or trap wild animals. The contractor's staff must not harvest any natural vegetation. 	LOW-
Rehabilitation of Disturbed Areas	During the construction phase poor rehabilitation of disturbed areas may lead to the permanent degradation of ecosystems as well as allow alien vegetation species to expand.	Preferred Alternative	Direct	Localised	Medium Term	Probable	Moderate	MODERATE-	<ul style="list-style-type: none"> All temporarily impacted areas must be rehabilitated with indigenous vegetation as soon as construction in the particular area or phase of work is complete, i.e. rehabilitation is on-going throughout construction. Restoration must be conducted as per the approved Rehabilitation Management Plan. Only topsoil from the development site, which has been appropriately stored, must be used for rehabilitation. 	LOW-
	Due to the proximity of the existing Boshhoek smelter, there are a number of existing disturbed areas surrounding the site.	No-Go Alternative	Direct	Study Area	Long Term	Definite	Moderate	MODERATE-	Not Applicable.	MODERATE-
Control of Alien Species	During the construction phase the removal of natural vegetation creates 'open' habitats that will favour the establishment of undesirable alien plant species in areas that are typically very difficult to eradicate and may pose a threat to neighbouring	Preferred Alternative	Indirect	Study Area	Long Term	Probable	Moderate	MODERATE-	<ul style="list-style-type: none"> The approved Alien Vegetation Management Plan must be implemented during the construction phase to reduce the establishment and spread of undesirable alien plant species. Alien plants must be removed from the site through appropriate methods such as hand pulling, application of chemicals, cutting, etc. as in accordance to the NEMBA: Alien Invasive Species Regulations. 	LOW-

BASIC ASSESSMENT REPORT

	natural ecosystems. There are currently a number of alien species observed throughout the study area. If no development occurs, this vegetation will not be controlled.	No-Go Alternative	Direct Indirect Cumulative	Study Area	Long Term	Definite	Moderate	MODERATE-	Not Applicable.	MODERATE-
Material Stockpiling	During the construction phase stockpiling of construction material within 50 m of a watercourse / wetland could result in erosion and mobilisation of the materials into these systems, resulting in sedimentation and a decrease in water quality and aquatic habitat.	Preferred Alternative	Direct	Study area	Medium Term	May Occur	Moderate	MODERATE-	<ul style="list-style-type: none"> No construction material must be stored within 50 m of a watercourse. Stockpiles within 100 m of watercourses must be monitored for erosion and mobilisation of materials towards watercourses. If this is noted by an ECO, suitable cut-off drains or berms must be placed between the stockpile area and the nearest watercourse. 	LOW-
Water Contamination (Cement / Concrete Material)	During the construction phase, accidental contamination of wet concrete (highly alkaline) in the rivers/wetland systems could result in mortality of macro-invertebrates and fish species that may be present.	Preferred Alternative	Direct Cumulative	Study Area	Short Term	May Occur	Severe	MODERATE-	<ul style="list-style-type: none"> During the construction phase no concrete mixing must take place within 32 m of any river bank or wetland system. A serviced fire extinguisher (to neutralise pH levels if a spill occurs) must be available on site in the event that wet concrete is accidentally spilled into the river. The mitigation measures in Appendix B (concrete mixing) must be used in conjunction with this report. 	LOW-
	There are currently a small number of existing developments occurring in close proximity to the rivers/wetlands which may be contaminating the water.	No-Go Alternative	Direct Indirect Cumulative	Study Area	Long Term	Probable	Severe	MODERATE-	Not Applicable.	MODERATE-
Water Contamination (Chemical Spills, sewage etc.)	During the construction phase, accidental chemical spills or other spills (sewage, etc.) in the vicinity of the rivers/wetlands will result in water pollution, adversely affecting the aquatic ecosystem.	Preferred Alternative	Direct Cumulative	Study Area	Short Term	May Occur	Severe	HIGH -	<ul style="list-style-type: none"> During the construction phase no machinery must be parked overnight within 50 m of the rivers/wetlands. All stationary machinery must be equipped with a drip tray to retain any oil leaks. Chemicals used for construction must be stored safely on bunded surfaces in the construction site camp. Emergency plans must be in place in case of spillages onto road surfaces or within water courses. No ablution facilities may be located within 50 m of any river or wetland system. Chemical toilets must be regularly maintained/ serviced to prevent ground or surface water pollution. 	LOW-
	There are currently a small number of existing developments occurring in close proximity to the rivers/wetlands which may be contaminating	No-Go Alternative	Direct Indirect Cumulative	Study Area	Long Term	Probable	Severe	MODERATE-	Not Applicable.	MODERATE-

BASIC ASSESSMENT REPORT

	the water.									
Stormwater management	During the construction phase the inappropriate routing of stormwater will lead to stream sedimentation, adversely affecting the aquatic environment.	Preferred Alternative	Direct	Study Area	Long Term	Probable	Moderate	MODERATE-	<ul style="list-style-type: none"> Flood attenuation and storm water management plans must be drawn up and implemented. An Erosion and Sediment Management Plan must be developed and implemented to minimize the ingress of sediment-laden stormwater into the rivers/ wetlands. 	LOW-
	Due to the existing railway line and associated servitude, soil stormwater management is an existing issue requiring attention at the site.	No-Go Alternative	Direct	Study Area	Long Term	Probable	Slight	LOW-	Not Applicable.	LOW-
Riparian vegetation (river)	During the construction phase, the removal of sensitive riparian vegetation for road/bridge widening and upgrading of culverts will adversely affect the aquatic environment (particularly if detours are used when widening bridges).	Preferred Alternative	Direct	Study Area	Long Term	Probable	Moderate	MODERATE-	<ul style="list-style-type: none"> During the construction phase all riparian vegetation removal must take place under supervision of the Environmental Control Officer (ECO). A Rehabilitation and Alien Vegetation Management Plan must be developed and implemented. Banks must be artificially stabilized as soon as possible if significant riparian vegetation is removed. 	LOW-
Riparian vegetation (wetland)	During the construction phase, indiscriminate removal of riparian vegetation at water crossing sites, within wetlands or encroachment into surrounding areas could lead to destabilisation of bank structures and an increase in erosion rates.	Preferred Alternative	Direct	Study area	Medium Term	May Occur	Moderate	MODERATE-	<ul style="list-style-type: none"> During the construction phase removal of riparian vegetation must take place under the supervision of the ECO. Removal of the alien invasive vegetation must be prioritised. Banks must be artificially stabilized as soon as possible if significant riparian vegetation is removed. Vehicles and machinery must not encroach into areas outside/surrounding the road upgrade footprint. 	LOW-
Soil Compaction and Erosion	There is a possibility that soil may be compacted by the operation and parking of construction vehicles. Compacted soil results in the reduced ability for plant growth and water absorption. The clearing of vegetation will result in the exposure of soils. Exposed soils are easily susceptible to erosion by wind and water (i.e. runoff) during high wind or rainfall conditions.	Preferred Alternative	Direct	Study Area	Short Term	Probable	Moderate	MODERATE-	<ul style="list-style-type: none"> Newly cleared and exposed areas must be promptly rehabilitated to avoid soil erosion; Where necessary, temporary stabilization measures must be used; Plan for the worst case, that is, for heavy rainfall and runoff events, or high winds; Appropriate erosion control measures must be implemented and a monitoring programme established to ensure that no erosion is taking place. At the first sign of erosion the necessary remedial action must be taken; Care must be taken to ensure that runoff is well dispersed so as to limit erosion. 	LOW-
	Due to the existing railway line and associated servitude, soil compaction and erosion is currently occurring on site.	No-Go Alternative	Direct	Study Area	Long Term	Probable	Slight	LOW-	Not Applicable.	LOW-

BASIC ASSESSMENT REPORT

Solid Waste Generation	It is anticipated that the proposed development will produce solid waste in the form of building rubble, excavated soil, excess concrete and general waste, such as litter, during the construction phase.	Preferred Alternative	Direct	Study Area	Short Term	Definite	Moderate	MODERATE-	<ul style="list-style-type: none"> Rubble and other construction waste produced must be re-used if possible and, where it is not possible, must be disposed of at the nearest registered waste disposal facility; Rubble, which will not be reused, must be removed from site on a regular basis; If rubble is stored on site, it must be stored on designated portions of land away from any sensitive areas; Litter must be controlled during construction – adequate bins must be made available on site at all times. These must be made scavenger and weather proof and must be emptied on a regular basis; Construction materials stored at the site camp must be secured – i.e. plastics must be covered to prevent being blown off site; The construction area must remain litter free and regular inspections for litter must be conducted. The activity must not contribute to any surrounding windblown litter; Waste skips must be covered and emptied regularly; Waste manifests must be provided by the Contractor to prove legal disposal; Empty cement bags must be kept in a sealed waste containers; Waste must not to be buried or burned. 	LOW-
	Very little waste pollution is observed on site however, due to the extent of the site, wind-blown litter can accumulate within the site.	No-Go Alternative	Direct	Study Area	Long Term	Probable	Slight	LOW-	Not Applicable.	LOW-
Impacts on Cultural Heritage, Archaeology and Palaeontology	During the construction phase, features of cultural heritage, archaeological or paleontological importance may be damaged or destroyed. The railway bridge, five (5) box culverts and a burial site, which date back to the Late Historical Period, have been identified as significant elements in terms of the National Heritage Resources Act. Please refer to Archaeological Impact Assessment included in Appendix D.	Preferred Alternative	Direct	Study Area	Permanent	Definite	Moderate	MODERATE-	<ul style="list-style-type: none"> Please refer to the Archaeological Impact Assessment included in Appendix D for detailed management and mitigation measures; Should any additional archaeological or cultural sites or objects be located during the construction of the proposed project, it must immediately be reported to the South African Heritage Resources Agency (SAHRA). Failure to report a site or object of archaeological and/or cultural significance is a contravention of the National Heritage Act (Act No. 25 of 1999); All construction site staff must be briefed to immediately report any sites or objects, which are located during the construction of the facility. In the event of finding what appears to be an archaeological site or a cultural and/or historic site or object, work must be terminated until a qualified archaeologist or historian can examine the item. 	LOW-
	Under the no-go option	No-Go	Direct	Study Area	Permanent	May Occur	Moderate	LOW-	Not Applicable.	LOW-

BASIC ASSESSMENT REPORT

	the archaeological and cultural heritage sites are unlikely to be disturbed, however the existing infrastructure within the immediate area may result in damage to these features.	Alternative								
Air Pollution	During construction, dust may be generated, especially where there is exposed ground. Specific activities that may contribute to the release of dust include offloading and stockpiling of building materials such as sand, storage of excavated materials and movement of heavy vehicles. The generation of dust may be exacerbated during windy, dry periods. In addition to dust, air pollution may result from the exhaust fumes emitted by construction vehicles, especially if the vehicles have not been serviced correctly	Preferred Alternative	Direct	Study Area	Short Term	Definite	Moderate	MODERATE-	<ul style="list-style-type: none"> • Topsoil must be cleared in a phased manner to avoid large areas of bare ground; • Employ dust suppression measures such as wetting of the project area during dry, windy periods (Only water from a licensed source will be used); • Where practical, do not leave large cleared areas exposed for longer than necessary; • The area of disturbance must be kept to a minimum at all times; • Vehicle speed must be limited to the lowest possible, and must not exceed 30km/h on the construction site, service road or gravel roads used to access the site camp. • Construction vehicles must be regularly maintained in order to ensure that no unnecessary exhaust fumes are being emitted. 	LOW-
	Due to the proximity to the Boshhoek Smelter as well as the existing untarred servitude roads, dust is currently experienced on site.	No-Go Alternative	Direct	Study Area	Permanent	Definite	Slight	LOW-	Not Applicable.	LOW-
Noise	Construction activities are associated with an increase in noise levels as a result of construction vehicles, plant generators and various other equipment being used on site. While these activities will produce noise, it is unlikely to have a significant impact on the surrounding area which includes an existing railway station as well as the Boshhoek Smelter.	Preferred Alternative	Direct	Study Area	Short Term	Definite	Low	LOW-	<ul style="list-style-type: none"> • No construction activities may take place between sunset and sunrise; • Machinery that generates noise must be regularly maintained in order to ensure that no unnecessary additional noise is produced; • Equipment with lower sound levels must be selected where feasible. 	NEGLIGIBLE
	Noise is currently experienced on site due to the proximity of the existing Boshhoek Smelter and railway line.	No-Go Alternative	Direct	Study Area	Permanent	Definite	Slight	LOW-	Not Applicable.	LOW-
Visual Impacts	Construction vehicles and equipment will be	Preferred Alternative	Direct	Study Area	Short Term	Probable	Low	LOW-	<ul style="list-style-type: none"> • Employ techniques to suppress dust and smoke generation during construction; 	NEGLIGIBLE

BASIC ASSESSMENT REPORT

	evident in the existing landscape. Generation of dust will increase the visibility of the project and may become an eyesore if not managed correctly.		Cumulative						<ul style="list-style-type: none"> The contractor must maintain good housekeeping on site to avoid litter and minimise waste; Night lighting of the construction sites must be minimised within requirements of safety and efficiency of the Environmental Regulations for Workplaces in terms of the Occupational Health and Safety Act (Act No. 85 of 1993); Fires and fire hazards need to be managed appropriately. 	
Traffic Impacts	During the construction phase of the proposed development, construction vehicles will be utilizing the existing road network. This may result in the impeding of traffic and damage to existing roads.	Preferred Alternative	Direct Indirect Cumulative	Study Area	Short Term	Definite	Moderate	MODERATE-	<ul style="list-style-type: none"> Large construction vehicles must not be permitted to utilize public roads during peak hours (AM: 06:30 – 08:30 and PM: 16:00 – 18:30); Any damage to public roads directly caused by large construction vehicles operating on this project must be repaired immediately 	LOW-
	Minor traffic is currently experienced in the area due to the existing Boshhoek Smelter and proximity to the town of Boshhoek	No-Go Alternative	Direct Indirect Cumulative	Study Area	Permanent	Definite	Slight	LOW-	Not Applicable.	LOW-
Health and Safety Risks	The use of construction machinery during the construction phase poses a potential risk to the health and safety of people working at the construction site as well as to commuters passing the site. The movement of construction vehicles also increases the risk of road accidents. The risk of accidents, fires and explosions must be mitigated effectively.	Preferred Alternative	Direct Indirect	Study Area	Short Term	May Occur	Moderate	MODERATE-	<ul style="list-style-type: none"> All relevant Health and Safety legislation as required in South Africa must be strictly adhered to, including but not limited to the Occupational Health and Safety Act, 1993 (No. 85 of 1993); Smoking must be prohibited in the vicinity of flammable substances; Any welding or other sources of heating of materials must be done in a controlled environment and under appropriate supervision; Ensure availability of fire extinguishers; All employees must be aware of emergency/ contingency plans to ensure an understanding of the hazards and procedures required during an emergency situation; An emergency preparedness and response plan must be implemented for the duration of construction; Records of environmental and/or health and safety related incidents must be maintained and communicated to the relevant persons; The Contractor shall ensure that signage, which must be pictorial and in the vernacular, is erected to warn against entering the construction area; Traffic calming and speed control measures for access to construction sites shall be instigated in consultation with the local authorities. 	LOW-
Employment Creation	The construction phase of the proposed	Preferred Alternative	Direct	Study Area	Short Term	Definite	Moderate Beneficial	MODERATE+	<ul style="list-style-type: none"> None required. 	MODERATE+

BASIC ASSESSMENT REPORT

	development will create a number of temporary jobs for locals within the area.		Indirect Cumulative							
	Under the no-go option a number of employment opportunities will be lost.	No-Go Alternative	Direct Indirect Cumulative	Study Area	Permanent	Definite	Slight	LOW-	Not Applicable.	LOW-
Purchasing of Materials from Local Businesses	Where possible, materials will be sourced from local businesses and this will result in a boost of the local economy of the immediate vicinity and surrounding areas.	Preferred Alternative	Direct Indirect Cumulative	Regional	Short Term	Probable	Moderate Beneficial	MODERATE+	<ul style="list-style-type: none"> None required. 	MODERATE+
	Under the no-go option a number of business opportunities will be lost.	No-Go Alternative	Direct Indirect Cumulative	Study Area	Permanent	Definite	Slight	LOW-	Not Applicable.	LOW-

Operational Phase Impacts:

ISSUE	IMPACT	ALTERNATIVE	NATURE OF IMPACT	SPATIAL SCALE (EXTENT)	TEMPORAL SCALE (DURATION)	CERTAINTY SCALE (LIKELIHOOD)	SEVERITY/BENEFICIAL SCALE	SIGNIFICANCE PRE-MITIGATION	MITIGATION MEASURES	SIGNIFICANCE POST-MITIGATION
Re-habilitation of disturbed areas	During the Operational Phase, poor rehabilitation of disturbed areas may lead to the permanent degradation of ecosystems as well as allow alien vegetation species to expand.	Preferred Alternative	Direct	Study Area	Long Term	May Occur	Moderate	MODERATE-	<ul style="list-style-type: none"> All cleared areas must be continuously rehabilitated with indigenous vegetation post-establishment. The site will be considered as rehabilitated when 75% or more of the impacted areas are covered by primary growth (grasses and/or scrubs). 	LOW-
	Due to the proximity of the existing Boshhoek smelter, there are a number of existing disturbed areas surrounding the site.	No-Go Alternative	Direct	Study Area	Long Term	Definite	Moderate	MODERATE-	Not Applicable.	MODERATE-
Invasion of Alien Species	During the operational phase the loss of natural vegetation will increase the potential invasion by alien plant species. This, coupled with the lack of implementation of the Alien Vegetation Management Plan may result in large scale alien plant invasion.	Preferred Alternative	Direct	Study Area	Long Term	May Occur	Moderate	MODERATE-	<ul style="list-style-type: none"> The approved Alien Vegetation Management Plan must be implemented during the operational phase to reduce the establishment and spread of undesirable alien plant species. Alien plants must be removed through appropriate methods such as hand pulling, application of chemicals, cutting, etc. as in accordance to the NEMBA: Alien Invasive Species Regulations. 	LOW-
	There are currently a number of alien species observed throughout the study area. If no development occurs, this vegetation will not be controlled.	No-Go Alternative	Direct Indirect Cumulative	Study Area	Long Term	Definite	Moderate	MODERATE-	Not Applicable.	MODERATE-

BASIC ASSESSMENT REPORT

Hazardous Waste Generation	Hazardous waste is likely to occur as a result of an increased number of trains passing through the area on a weekly basis. Due to the nature of a freight railway line, leaking oil or fuel may enter or flow into the adjacent areas. In addition to this, operations of a siding include the temporary storage of moderate quantities of dangerous goods, which, if not properly stored and contained, may accumulate and result in hazardous waste entering the surrounding environment.	Preferred Alternative	Direct	Study Area	Long Term	Definite	Severe	HIGH-	<ul style="list-style-type: none"> Hazardous substances must be disposed of at an appropriate classified waste site (unless it is to be recycled by approved methods), as per the National Environmental Management Waste Act 59 of 2008; All contaminated spill fighting material such as fibres, soil, sandbags, etc. must be disposed of in an appropriate hazardous waste landfill site. Proof of this must be made available upon request; The transportation, handling and storage of hazardous and flammable substances must comply with all the provisions of the Hazardous Substances Act 1973, (Act No. 15 of 1973) associated regulations as well as a SANS 10228 and SANS 10089 codes. 	LOW-
Increased Stormwater Runoff and Erosion Potential	The proposed development will consist of more impervious surfaces than what currently exists on site and this will result in increased runoff and potentially increased erosion.	Preferred Alternative	Direct	Study Area	Long Term	Definite	Moderate	MODERATE-	<ul style="list-style-type: none"> A site-specific stormwater management plan must be implemented to manage the increased stormwater runoff; Storm-water structures need to be implemented as part of the development and must link up with the current storm-water infrastructure in order to navigate stormwater and minimise soil erosion; At the first signs of erosion, the correct procedures must be undertaken to manage, resolve and prevent it from occurring. 	LOW-
	There is currently stormwater runoff occurring as a result of the existing railway servitude.	No-Go Alternative	Direct	Study Area	Permanent	Definite	Moderate	MODERATE-	Not Applicable.	MODERATE-
Noise	The operation of a railway loop in the area may result in a slight noise increase due to a higher number of trains passing through the area. The overall noise level should not be any more than what is currently experienced on site.	Preferred Alternative	Direct	Study Area	Long Term	Definite	Moderate	MODERATE-	<ul style="list-style-type: none"> The siding infrastructure must be well maintained in order to avoid unnecessary noise produced near the site; The Rustenburg Local Municipality by-laws relating to noise must be adherer to at all times. 	LOW-
	Noise is currently experienced on site due to the proximity of the existing Boshhoek Smelter and railway line.	No-Go Alternative	Direct	Study Area	Permanent	Definite	Slight	LOW-	Not Applicable.	LOW-
Traffic Impacts	The operation of the proposed railway loop will allow for additional use of the Waterberg railway line. This could result in an increase in potential accidents in along the line	Preferred Alternative	Direct Indirect Cumulative	Study Area	Long Term	Definite	Moderate	MODERATE-	<ul style="list-style-type: none"> The proposed railway loop must be operated in line with the relevant Transnet rail standards and train schedules; 	LOW-

BASIC ASSESSMENT REPORT

	however, this is unlikely. With the correct management of railway traffic, the proposed railway loop will prevent delays along the railway route and will have an overall positive impact on railway traffic.									
	Minor traffic is currently experienced in the area due to the existing Boshhoek Smelter and proximity to the town of Boshhoek	No-Go Alternative	Direct Indirect Cumulative	Study Area	Permanent	Definite	Slight	LOW-	Not Applicable.	LOW-
Health and Safety Risks	The operation of a railway siding poses a potential fire and explosion risk due to the storage of a number of potentially dangerous goods. In addition to this, health and safety risks occur with regards to onsite train arrivals and departures.	Preferred Alternative	Direct Indirect	Study Area	Long Term	May Occur	Severe	HIGH-	<ul style="list-style-type: none"> All relevant Health and Safety legislation as required in South Africa must be strictly adhered to, including but not limited to the Occupational Health and Safety Act, 1993 (No. 85 of 1993); Smoking must be prohibited in the vicinity of flammable substances; Ensure availability of fire extinguishers; An emergency preparedness and response plan must be implemented for the operational phase; 	LOW-
Economic Benefits	The railway loop will contribute to increasing, amongst others, the coal-carrying capacity of the Waterberg railway line. This will contribute to the overall transport and delivery of economically valuable goods and facilitate a positive influence on the Gross Domestic Product.	Preferred Alternative	Direct Indirect Cumulative	National	Long Term	Definite	Beneficial	HIGH +	<ul style="list-style-type: none"> None required 	HIGH +
	Under the No-Go option, all economic benefits arising from the proposed development will be lost.	No-Go Alternative	Direct Indirect Cumulative	National	Permanent	Definite	Severe	HIGH-	Not Applicable.	HIGH-

APPENDIX G

**ENVIRONMENTAL MANAGEMENT
PROGRAMME (EMPr)**

APPENDIX H

DETAILS OF THE EAP AND EXPERTISE

DETAILS AND DECLARATION OF THE EAP

APPENDIX I

**SPECIALIST'S DECLARATION OF
INTEREST**



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

DETAILS OF SPECIALIST AND DECLARATION OF INTEREST

	(For official use only)
File Reference Number:	12/12/20/ or 12/9/11/L
NEAS Reference Number:	DEA/EIA
Date Received:	

Application for integrated environmental authorisation and waste management licence in terms of the-

- (1) National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment Regulations, 2014; and
- (2) National Environmental Management Act: Waste Act, 2008 (Act No. 59 of 2008) and Government Notice 921, 2013

PROJECT TITLE

Expansion of the Boshhoek Rail Loop from 132.82km to 135.78km, North West Province.

Specialist:	Ecological specialist		
Contact person:	Roy de Kock		
Postal address:	PO Box 8145 Nahoon		
Postal code:	5210	Cell:	0762819660
Telephone:	043 726 7809	Fax:	
E-mail:	Roy.dekock@eoh.co.za		
Professional affiliation(s) (if any)	SACNASP: 400216/16		

Project Consultant:	EOH Coastal and Environmental Services		
Contact person:	Mr Gideon Raath		
Postal address:	1 Osborne Lane, Bedfordview, Johannesburg		
Postal code:	2007	Cell:	
Telephone:	011 607 8389	Fax:	011 616 9929
E-mail:	g.raath@cesnet.co.za		

4.2 The specialist appointed in terms of the Regulations...

I, Ruy de Kock, declare that --

General declaration:

I act as the independent specialist in this application;

I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant;

I declare that there are no circumstances that may compromise my objectivity in performing such work;

I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, Regulations and any guidelines that have relevance to the proposed activity;

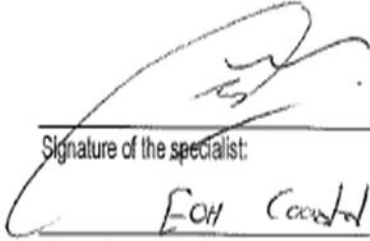
I will comply with the Act, Regulations and all other applicable legislation;

I have no, and will not engage in, conflicting interests in the undertaking of the activity;

I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;

all the particulars furnished by me in this form are true and correct; and

I realise that a false declaration is an offence in terms of regulation 48 and is punishable in terms of section 24F of the Act.


Signature of the specialist:

EOH Coastal and Environmental Services
Name of company (if applicable):

15 May 2018
Date:



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

DETAILS OF SPECIALIST AND DECLARATION OF INTEREST

	(For official use only)
File Reference Number:	12/12/20/ or 12/9/11/L
NEAS Reference Number:	DEA/EIA
Date Received:	

Application for integrated environmental authorisation and waste management licence in terms of the-

- (1) National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment Regulations, 2014; and
- (2) National Environmental Management Act: Waste Act, 2008 (Act No. 59 of 2008) and Government Notice 921, 2013

PROJECT TITLE

Expansion of the Boshhoek Rail Loop from 132.82km to 135.78km, North West Province.

Specialist:	Ecological Specialist (Wetland Assessment)		
Contact person:	Kim Brent		
Postal address:	13 Stanley Street, Richmond Hill, Port Elizabeth		
Postal code:	6001	Cell:	079 5111032
Telephone:	041 585 1715	Fax:	
E-mail:	kim.brent@eoh.co.za		
Professional affiliation(s) (if any)	SACNASP Professional: 116766 SAAB: 565		

Project Consultant:	Dr Alan Carter		
Contact person:	Mr Gideon Raath		
Postal address:	1 Osborne Lane, Bedfordview, Johannesburg		
Postal code:	2007	Cell:	
Telephone:	011 607 8389	Fax:	011 616 9929
E-mail:	g.raath@cesnet.co.za		

BASIC ASSESSMENT REPORT

4.2 The specialist appointed in terms of the Regulations_

I, Kim Beent, declare that -

General declaration:

I act as the independent specialist in this application;
I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant;
I declare that there are no circumstances that may compromise my objectivity in performing such work;
I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, Regulations and any guidelines that have relevance to the proposed activity;
I will comply with the Act, Regulations and all other applicable legislation;
I have no, and will not engage in, conflicting interests in the undertaking of the activity;
I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
all the particulars furnished by me in this form are true and correct; and
I realise that a false declaration is an offence in terms of regulation 48 and is punishable in terms of section 24F of the Act.



Signature of the specialist:

ECH CES

Name of company (if applicable):

15 May 2018

Date:



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

DETAILS OF SPECIALIST AND DECLARATION OF INTEREST

	(For official use only)
File Reference Number:	12/12/20/ or 12/9/11/L
NEAS Reference Number:	DEA/EIA
Date Received:	

Application for integrated environmental authorisation and waste management licence in terms of the-

- (1) National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment Regulations, 2014; and
- (2) National Environmental Management Act: Waste Act, 2008 (Act No. 59 of 2008) and Government Notice 921, 2013

PROJECT TITLE

Expansion of the Boshhoek Rail Loop from 132.82km to 135.78km, North West Province.

Specialist:	Neels Kruger	
Contact person:	Neels Kruger	
Postal address:	Postnet Suite 74, Private Bag x07, Arcadia	
Postal code:	0070	Cell: 0629672131
Telephone:	012 751 2160	Fax: 0666072406
E-mail:	neels@erigo3.com	
Professional affiliation(s) (if any)	Association of Southern African Professional Archaeologists (ASAPA): Registered Archaeologist & Culture Resources Management Practitioner	

Project Consultant:	Dr Alan Carter	
Contact person:	Mr Gideon Raath	
Postal address:	1 Osborne Lane, Bedfordview, Johannesburg	
Postal code:	2007	Cell:
Telephone:	011 607 8389	Fax: 011 616 9929
E-mail:	g.raath@cesnet.co.za	

BASIC ASSESSMENT REPORT

4.2 The specialist appointed in terms of the Regulations,

I, Neels Kruger _____, declare that --

General declaration:

I act as the independent specialist in this application;
I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant;
I declare that there are no circumstances that may compromise my objectivity in performing such work;
I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, Regulations and any guidelines that have relevance to the proposed activity;
I will comply with the Act, Regulations and all other applicable legislation;
I have no, and will not engage in, conflicting interests in the undertaking of the activity;
I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
all the particulars furnished by me in this form are true and correct; and
I realise that a false declaration is an offence in terms of regulation 48 and is punishable in terms of section 24F of the Act.



Signature of the specialist:

Exigo Sustainability

Name of company (if applicable):

2018-05-15

Date:

 15/5/2018
DENISE SHELLAINE FOUCHE
COMMISSIONER OF OATHS / KOMMISSARIS VAN EDE
HOPANE ATTORNEYS / HOPANE PROKUREURS
2 EULOPHIA CORNER / 26 GENERAL VAN RYNEVELD ST
PERSEQUOR PARK, PRETORIA, 0020
PRACTISING ATTORNEY / PRAKTYSERENDE PROKUREUR
Republic of South Africa / Republiek van Suid-Afrika

APPENDIX J

ADDITIONAL INFORMATION

PROJECT COORDINATES



Alternative:

Alternative 1 (preferred)

- Starting point of the activity ("Start")
- Middle/Additional point of the activity ("Curve 1")
- End point of the activity ("End")

Latitude (S):

Longitude (E):

25° 29' 39.2" S	27° 05' 51.0" E
25° 30' 07.4" S	27° 06' 36.8" E
25° 30' 52.4" S	27° 07' 18.0" E

FARM PORTION DETAILS

21DigitKey (SG Code)	Parcel Type	PARCEL_NO	PORTION	FARM_NAME
T0JQ00000000025900009	FP	259	9	BULTFONTEIN
T0JQ00000000008500000	FP	85	0	
T0JQ00000000025900004	FP	259	4	BULTFONTEIN
T0JQ00000000025900015	FP	259	15	BULTFONTEIN
T0JQ00000000025900007	FP	259	7	BULTFONTEIN
T0JQ00000000010300009	FP	103	9	BOSCHHOEK
T0JQ00000000010300011	FP	103	11	BOSCHHOEK
T0JQ00000000010300146	FP	103	146	BOSCHHOEK
T0JQ00000000010300012	FP	103	12	BOSCHHOEK
T0JQ00000000010300046	FP	103	46	BOSCHHOEK
T0JQ00000000010300138	FP	103	138	BOSCHHOEK
T0JQ00000000010300140	FP	103	104	BOSCHHOEK
T0JQ00000000010300054	FP	103	54	BOSCHHOEK
T0JQ00000000010300052	FP	103	52	BOSCHHOEK
T0JQ00000000010300066	FP	103	66	BOSCHHOEK
T0JQ00000000025900002	FP	259	02	BULTFONTEIN,
T0JQ00000000025900013	FP	259	13	BULTFONTEIN,
T0JQ00000000025900010	FP	259	10	BULTFONTEIN,
T0JQ00000000025500000	FP	255	0	STELLITE
T0JQ00000000026000009	FP	260	09	BOEKENHOUTFONTEIN

BASIC ASSESSMENT REQUIREMENTS AS PER THE 2014 NEMA EIA REGULATIONS (AS AMENDED IN 2017)

(a)	details of- (i) the EAP who prepared the report; and (ii) the expertise of the EAP, including a curriculum vitae;	Refer to Appendix H of the BAR
(b)	the location of the activity (i) the 21 digit Surveyor General code of each cadastral land parcel;	Refer to Section B, Property description/physical address, in the BAR, as well as Appendix J.
	(ii) where available, the physical address and farm name;	
	(iii) where the required information in items (i) and (ii) is not available, the coordinates of the boundary of the property or properties;	
(c)	a plan which locates the proposed activity or activities applied for as well as associated structures and infrastructure at an appropriate scale;	Refer to Appendix A of BAR.
	or, if it is- (i) a linear activity, a description and coordinates of the corridor in which the proposed activity or activities is to be undertaken; or (ii) on land where the property has not been defined, the coordinates within which the activity is to be undertaken;	
(d)	a description of the scope of the proposed activity, including (i) all listed and specified activities triggered and being applied for; and (ii) a description of the activities to be undertaken including associated structures and infrastructure;	Refer to Section A, 1. Project Description, in the BAR.
(e)	a description of the policy and legislative context within which the development is proposed including- (i) an identification of all legislation, policies, plans, guidelines, spatial tools, municipal development planning frameworks, and instruments that are applicable to this activity and have been considered in the preparation of the report; and (ii) how the proposed activity complies with and responds to the legislation and policy context, plans, guidelines, tools frameworks, and instruments;	Refer to Section A, 11. Applicable Legislation, Policies and/or Guidelines, in the BAR.
(f)	a motivation for the need and desirability for the proposed development including the need and desirability of the activity in the context of the preferred location;	Refer to Section A, 10. Activity Motivation, in the BAR.
(g)	a motivation for the preferred site, activity and technology alternative;	Refer to Section A, 2. Feasible and Reasonable Alternatives, in the BAR.
(h)	a full description of the process followed to reach the proposed preferred alternative within the site, including –	
	(i) details of all the alternatives considered;	Refer to Section A, 2. Feasible and Reasonable Alternatives.

	(ii) details of the public participation process undertaken in terms of regulation 41 of the Regulations, including copies of the supporting documents and inputs;	Refer to Section C and Appendix E of the BAR.
	(iii) a summary of the issues raised by interested and affected parties, and an indication of the manner in which the issues were incorporated, or the reasons for not including them;	Refer to Section C and Appendix E of the BAR.
	(iv) the environmental attributes associated with the alternatives focusing on the geographical, physical, biological, social, economic, heritage and cultural aspects;	Refer to Section B of the BAR.
	(v) the impacts and risks identified for each alternative, including the nature, significance, consequence, extent, duration and probability of the impacts, including the degree to which these impacts- (aa) can be reversed; (bb) may cause irreplaceable loss of resources; and (cc) can be avoided, managed or mitigated;	Refer to Section D and Appendix F of the BAR.
	(vi) the methodology used in determining and ranking the nature, significance, consequences, extent, duration and probability of potential environmental impacts and risks associated with the alternatives;	Refer to Appendix F of the BAR.
	(vii) positive and negative impacts that the proposed activity and alternatives will have on the environment and on the community that may be affected focusing on the geographical, physical, biological, social, economic, heritage and cultural aspects;	Refer to Section D and Appendix F of the BAR.
	(viii) the possible mitigation measures that could be applied and level of residual risk;	Refer to Section D, Section E, Appendix F and Appendix G, of the BAR.
	(ix) the outcome of the site selection matrix;	No site selection matrix was used, as the site was defined by feasibility studies and simulations carried out by the applicant.
	(x) if no alternatives, including alternative locations for the activity were investigated, the motivation for not considering such; and	Refer to Section A, 2. Feasible and Reasonable Alternatives, in the BAR.
	(xi) a concluding statement indicating the preferred alternatives, including preferred location of the activity;	Refer to Section E, Opinion of the EAP, in the BAR.
(i)	a full description of the process undertaken to identify, assess and rank the impacts the activity will impose on the preferred location through the life of the activity, including- (i) a description of all environmental issues and risks that were identified during the environmental impact assessment process; and (ii) an assessment of the significance of each issue and risk and an indication of the extent to which the issue and risk could be avoided or	Refer to Section D and Appendix F of the BAR.

	addressed by the adoption of mitigation measures;	
(j)	an assessment of each identified potentially significant impact and risk, including- (I) cumulative impacts; (ii) the nature, significance and consequences of the impact and risk; (iii) the extent and duration of the impact and risk; (iv) the probability of the impact and risk occurring; (v) the degree to which the impact and risk can be reversed; (vi) the degree to which the impact and risk may cause irreplaceable loss of resources; and (vii) the degree to which the impact and risk can be avoided, managed or mitigated;	Refer to Section D and Appendix F of the BAR.
(k)	where applicable, a summary of the findings and impact management measures identified in any specialist report complying with Appendix 6 to these Regulations and an indication as to how these findings and recommendations have been included in the final report;	Refer to Appendix D of the BAR
(l)	an environmental impact statement which contains- (i) a summary of the key findings of the environmental impact assessment;	Refer to Section D, 2. Environmental Impact Statement, in the BAR.
	(ii) a map at an appropriate scale which superimposes the proposed activity and its associated structures and infrastructure on the environmental sensitivities of the preferred site indicating any areas that should be avoided, including buffers; and	Refer to Appendix A of BAR.
	(iii) a summary of the positive and negative impacts and risks of the proposed activity and identified alternatives;	Refer to Section D, 2. Environmental Impact Statement.
(m)	based on the assessment, and where applicable, impact management measures from specialist reports, the recording of the proposed impact management outcomes for the development for inclusion in the EMPr;	Refer to Appendix G of the BAR.
(n)	any aspects which were conditional to the findings of the assessment either by the EAP or specialist which are to be included as conditions of authorisation;	Refer to Section E and Appendix G of the BAR.
(o)	a description of any assumptions, uncertainties, and gaps in knowledge which relate to the assessment and mitigation measures proposed;	This report is based on currently available information and, as a result, the following limitations and assumptions are implicit in it: – i) Descriptions of the natural and social environments are based on fieldwork and available literature. Detailed information provided in this report are largely the outcomes of the specialist studies and any methodological or

		<p>knowledge limitations on their behalf are applicable to the findings of this report.</p> <p>ii) It is anticipated that this preliminary layout will be further refined as per the outcomes of these studies and overall BAR findings. A revised layout already taking into account areas identified as sensitive by the specialists must be submitted to the authorities once the Applicant intends to begin construction.</p>
(p)	(p) a reasoned opinion as to whether the proposed activity should or should not be authorised, and if the opinion is that it should be authorised, any conditions that should be made in respect of that authorisation;	Refer to Section E in the BAR.
(q)	(q) where the proposed activity does not include operational aspects, the period for which the environmental authorisation is required, the date on which the activity will be concluded, and the post construction monitoring requirements finalised;	Refer to Appendix G of the BAR
(r)	<p>an undertaking under oath or affirmation by the EAP in relation to –</p> <p>(i) the correctness of the information provided in the reports;</p> <p>(ii) the inclusion of comments and inputs from stakeholders and I&APs;</p> <p>(iii) the inclusion of inputs and recommendations from the specialist reports where relevant; and</p> <p>(iv) any information provided by the EAP to interested and affected parties and any responses by the EAP to comments or inputs made by interested and affected parties; and</p>	Refer to Appendix H, Appendix D and Appendix E of the BAR.
(s)	where applicable, details of any financial provisions for the rehabilitation, closure, and ongoing post decommissioning management of negative environmental impacts;	Not applicable.
(t)	any specific information that may be required by the competent authority; and	None requested to date.
(u)	any other matters required in terms of section 24(4)(a) and (b) of the Act.	It is the opinion of EOH CES that the procedures for assessment of the environment and the potential impacts the proposed activities may have on the environment are adequate and comply with the requirements of Section 24(4)(a) and (b) of the Act.