











PRE-APPLICATION BASIC ASSESSMENT REPORT

for

ZANDHOOGTE ESTATE

On

A Portion of Remainder Farm Zandhoogte 139, Tergniet (Mossel Bay District)

In terms of the

National Environmental Management Act (Act No. 107 of 1998, as amended) & 2014 Environmental Impact Regulations

> Prepared for Proponent: IDEAL TRADING 301 CC

Date: 8 December 2020

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A

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Registration: EAPASA 2019/1444

Ms van Zyl has 18 years' experience as an environmental practitioner.

PURPOSE OF THIS REPORT:

Pre-Application Basic Assessment Report

APPLICANT:

IDEAL TRADING 103 CC

CAPE EAPRAC REFERENCE NO: MOS600/02

SUBMISSION DATE 08 December 2020

PUBLIC PARTICIPATION

Pre-Application Basic Assessment Report made available for public review and comment for a 30-day review and comment period.

DOCUMENT TRACKING

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MO\$600/02	Pre-Application Basic Assessment Report	2020-12-08	Ms Louise-Mari van Zyl

APPROVAL FOR RELEASE

NAME	TITLE	SIGNATURE
Ms Louise-Mari van Zyl	MS	than Juf

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DESIGNATION	NAME	METHOD

PRE-APPLICATION BASIC ASSESSMENT REPORT

in terms of the

National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended & Environmental Impact Regulations 2014

ZANDHOOGTE ESTATE

A Portion of Remainder Farm Zandhoogte 139, Tergniet (Mossel Bay District)

Submitted for: Departmental Compliance

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1. CONTENT OF BASIC ASSESSMENT REPORTS

Appendix 1 of the 2014 EIA Regulations (as amended) contains the required contents of a Basic Assessment Report. The checklist below serves as a summary of how these requirements were incorporated into this Basic Assessment Report.

Requi	rement	Details
(a) De (i) (ii) (iii)	tails of - The EAP who prepared the report; and The expertise of the EAP, including, curriculum vitae. Applicant Details	Ms Louise-Mari van Zyl
(b) The (i) (ii) (iii)	e location of the activity, including – The 21 digit Surveyor General code of each cadastral land parcel; Where available, the physical address and farm name; Where the required information in items (i) and (ii) is not available, the coordinates of the boundary of the property or properties.	C0510000000013900000
activiti	plan which locates the proposed activity or es applied for as well as the associated ires and infrastructure at an appropriate scale, or, A linear activity, a description and coordinates of the corridor in which the proposed activity or activities is to be undertaken; or On land where the property has not been defined, the coordinates within which the activity is to be undertaken.	Refer to Appendix B for site plans
(d) a c includi (i) (ii)	All listed and specified activities triggered and being applied for; and A description of the activities to be undertaken including associated structures and infrastructure.	Refer to main report
	description of the policy and legislative context which the development is proposed, including – 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 How the proposed activity complies with and responds to the legislation and policy context,	Refer to main report

Requirement	Details
plans, guidelines, tools frameworks and instruments.	
(f) A motivation for the need and desirability for the	Refer to main report
proposed development, including the need and	
desirability of the activity in the context of the preferred	
location.	
(g) A motivation for the preferred site, activity and technology alternative.	Refer to Appendix G1 for Planning Report
(h) A full description of the process followed to reach	Refer to main report
the proposed preferred alternative within the site,	
including -	
(i) Details of all alternatives considered;	
(ii) Details of the public participation process	
undertaken in terms of regulation 41 of the	
Regulations, including copies of the supporting	
documents and inputs;	
(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;	
(iv) The environmental attributes associated with	
the alternatives focusing on the geographical,	
physical, biological, social, economic, heritage	
and cultural aspects;	
(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. (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;	
(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;	
(viii) The possible mitigation measures that could	
be applied and level of residual risk; (ix) The outcome of the site selection matrix;	
(x) If no alternatives, including alternative locations	
for the activity were investigated, the motivation	
for not considering such; and	
(xi) A concluding statement indicating the preferred	
alternatives, including preferred location of the	
activity.	
(i) A full description of the process undertaken to	Refer to main report
identify, assess and rank the impacts the	

Requirement	Details
activity will impose on the preferred location through the life of the activity, including – (ii) A description of all environmental issues and risks that were identified during the environmental impact assessment process; and (iii) 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 addressed by the adoption of mitigation measures.	
(j) An assessment of each identified potentially significant impact and risk, including -	Refer to main report
 (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 mitigated. 	
(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 assessment report.	Refer to main report
 (I) An environmental impact statement which contains: (i) A summary of the key findings of the environmental impact assessment; (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 (iii) A summary of the positive and negative impacts and risks of the proposed activity and identified alternatives. 	Refer to main report
(<i>m</i>) Based on the assessment, and where applicable, impact management measures from specialist reports, the recording of proposed impact management objectives, and the impact management outcomes for the development for inclusion in the EMPr.	Refer to main report and Appendix H for EMP
(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 main report
(o) A description of assumptions, uncertainties and gaps in knowledge which relate to the assessment and mitigation measures proposed.	Refer to main report

Deminerant	Deteile
Requirement	Details
(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 main report
(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 main report
 (<i>r</i>) An undertaking under oath or affirmation by the EAP in relation to: (<i>i</i>) The correctness of the information provided in the reports; (<i>ii</i>) The inclusion of comments and inputs rom stakeholders and I&APs (<i>iii</i>) The inclusion of inputs and recommendations from the specialist reports where relevant; and (<i>iv</i>) 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. 	Refer to Appendix M
 (s) Where applicable, details of any financial provisions for the rehabilitation, closure and ongoing post decommissioning management of negative environmental impacts. (t) Any specific information that may be required by the 	Not applicable to this application EAP Declaration on public participation included
competent authority. (u) Any other matters required in terms of section 24(4)(a) and (b) of the Act.	with Appendix F4.





BASIC ASSESSMENT REPORT

THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, 1998 (ACT NO. 107 OF 1998) AND THE ENVIRONMENTAL IMPACT ASSESSMENT REGULATIONS.

NOVEMBER 2019

(For official use only)	
Pre-application Reference Number (if applicable):	
EIA Application Reference Number:	
NEAS Reference Number:	
Exemption Reference Number (if applicable):	
Date BAR received by Department:	
Date BAR received by Directorate:	
Date BAR received by Case Officer:	

GENERAL PROJECT DESCRIPTION

(This must Include an overview of the project including the Farm name/Portion/Erf number)

The **Remainder Farm Zandhoogte 139** is roughly 38.23ha in extent and consists of four (4) portions (refer to Figure 1) of which only **Portion A** is the focus of this development application and investigation:

- **Portion A =** +/-10.20ha [subject development area]
- **Portion B** = +/-0.77ha [Main Road 102, Provincial Road]
- **Portion C** = 8.48ha [remains Agriculture] and
- **Portion D** = Remainder Farm 139 [remains Agriculture north of the N2].

The property is zoned 'Agriculture Zone' and was utilised for grazing until recently.



Figure 1: Site orientation map for Remainder Zandhoogte 139.

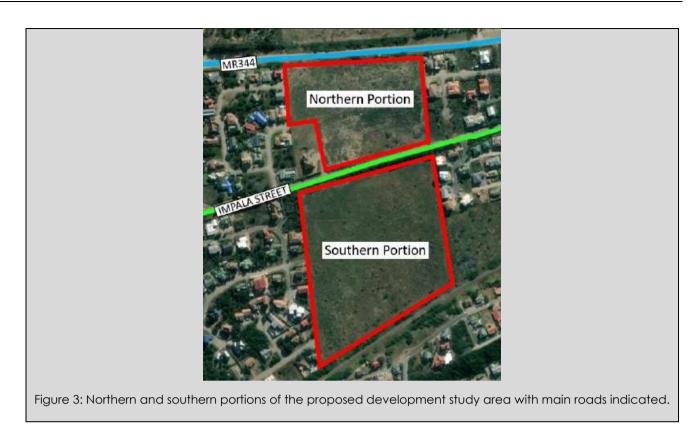
The proposal entails the following:

- Rezoning of **Portion A** (10.2ha) to Subdivisional Area to enable the subdivision of the property in various residential uses, namely:
 - 160x General Residential Zone I erven (group housing) = 49.18% of site (5ha)
 - 3x General Residential Zone III erven (flats) = 8.53% of site (0.87ha)
 - 4x Private Open Space erven = 12.76% of site (1.3ha)
 - 1x Public Street (Transport Zone II) = 4.66% of site (1.47ha)
 - 4x Private Street (Transport Zone III) = 24.87% of site (2.53ha)
- Link services infrastructure, namely water, sewage reticulation, stormwater drainage, 11kVA overhead line, will link up with the existing municipal services.
- Upgrade of Impala Avenue by expanding with road with a dedicated right turn lane to access the southern portion of the development.



Figure 2: Preferred Alternative 1 for Zandhoogte Estate (Source: Vreken June 2020).

The development will be developed in **two (2) phases** with the Phase 1 being north of Impala Way and the Phase 2 south of Impala Way. It is expected to complete both phases within a period of eight (8) years.



IMPORTANT INFORMATION TO BE READ PRIOR TO COMPLETING THIS BASIC ASSESSMENT REPORT

- 1. **The purpose** of this template is to provide a format for the Basic Assessment report as set out in Appendix 1 of the National Environmental Management Act, 1998 (Act No. 107 of 1998) ("NEMA"), Environmental Impact Assessment ("EIA") Regulations, 2014 (as amended) in order to ultimately obtain Environmental Authorisation.
- 2. The Environmental Impact Assessment ("EIA") Regulations is defined in terms of Chapter 5 of the National Environmental Management Act, 19998 (Act No. 107 of 1998) ("NEMA") hereinafter referred to as the "NEMA EIA Regulations".
- 3. The required information must be typed within the spaces provided in this Basic Assessment Report ("BAR"). The sizes of the spaces provided are not necessarily indicative of the amount of information to be provided.
- 4. All applicable sections of this BAR must be completed.
- 5. Unless protected by law, all information contained in, and attached to this BAR, will become public information on receipt by the Competent Authority. If information is not submitted with this BAR due to such information being protected by law, the applicant and/or Environmental Assessment Practitioner ("EAP") must declare such non-disclosure and provide the reasons for believing that the information is protected.
- 6. This BAR is current as of **November 2019**. It is the responsibility of the Applicant/ EAP to ascertain whether subsequent versions of the BAR have been released by the Department. Visit this Department's website at http://www.westerncape.gov.za/eadp to check for the latest version of this BAR.
- 7. This BAR is the standard format, which must be used in all instances when preparing a BAR for Basic Assessment applications for an environmental authorisation in terms of the NEMA EIA Regulations when the Western Cape Government Department of Environmental Affairs and Development Planning ("DEA&DP") is the Competent Authority.
- 8. Unless otherwise indicated by the Department, one hard copy and one electronic copy of this BAR must be submitted to the Department at the postal address given below or by delivery thereof to the Registry Office of the Department. Reasonable access to copies of this Report must be provided to the relevant Organs of State for consultation purposes, which may, if so indicated by the Department, include providing a printed copy to a specific Organ of State.
- 9. This BAR must be duly dated and originally signed by the Applicant, EAP (if applicable) and Specialist(s) and must be submitted to the Department at the details provided below.

- 10. The Department's latest Circulars pertaining to the "One Environmental Management System" and the EIA Regulations, any subsequent Circulars, and guidelines must be taken into account when completing this BAR.
- 11. Should a water use licence application be required in terms of the National Water Act, 1998 (Act No. 36 of 1998) ("NWA"), the "One Environmental System" is applicable, specifically in terms of the synchronisation of the consideration of the application in terms of the NEMA and the NWA. Refer to this Department's Circular EADP 0028/2014: One Environmental Management System.
- 12. Where Section 38 of the National Heritage Resources Act, 1999 (Act No. 25 of 1999) ("NHRA") is triggered, a copy of Heritage Western Cape's final comment must be attached to the BAR.
- The Screening Tool developed by the National Department of Environmental Affairs must be used to generate a screening report. Please use the Screening Tool link <u>https://screening.environment.gov.za/screeningtool</u> to generate the Screening Tool Report. The screening tool report must be attached to this BAR.
- 14. Where this Department is also identified as the Licencing Authority to decide on applications under the National Environmental Management: Air Quality Act (Act No. 29 of 2004) ('NEM:AQA"), the submission of the Report must also be made as follows, for-

Waste Management Licence Applications, this report must also (i.e., another hard copy and electronic copy) be submitted for the attention of the Department's Waste Management Directorate (Tel: 021-483-2728/2705 and Fax: 021-483-4425) at the same postal address as the Cape Town Office.

Atmospheric Emissions Licence Applications, this report must also be (i.e., another hard copy and electronic copy) submitted for the attention of the Licensing Authority or this Department's Air Quality Management Directorate (Tel: 021 483 2888 and Fax: 021 483 4368) at the same postal address as the Cape Town Office.

DEPARTMENTAL DETAILS

CAPE TOWN OFFICE: REGION 1 and REGION 2 (Region 1: City of Cape Town, West Coast District) (Region 2: Cape Winelands District & Overberg District)	GEORGE OFFICE: REGION 3 (Central Karoo District & Garden Route District)
BAR must be sent to the following details:	BAR must be sent to the following details:
Western Cape Government	Western Cape Government
Department of Environmental Affairs and	Department of Environmental Affairs and
Development Planning	Development Planning
Attention: Directorate: Development	Attention: Directorate: Development
Management (Region 1 or 2)	Management (Region 3)
Private Bag X 9086	Private Bag X 6509
Cape Town,	George,
8000	6530
Registry Office	Registry Office
1 [#] Floor Utilitas Building	4 th Floor, York Park Building
1 Dorp Street,	93 York Street
Cape Town	George
Queries should be directed to the	Queries should be directed to the
Directorate: Development Management	Directorate: Development Management
(Region 1 and 2) at:	(Region 3) at:
Tel: (021) 483-5829	Tel: (044) 805-8600
Fax (021) 483-4372	Fax (044) 805 8650

MAPS	
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	tion map (see below) as Appendix A1 to this BAR that shows the location of development and associated structures and infrastructure on the property.
Locality Map:	
	For ocean based or aquatic activity, the coordinates must be provided within which the activity is to be undertaken and a map at an appropriate scale clearly indicating the area within which the activity is to be undertaken. Where comment from the Western Cape Government: Transport and Public Works is required, a map illustrating the properties (owned by the Western

Cape Government: Transport and Public Works) that will be affected by the proposed development must be included in the Report.
iled site development plan / site map (see below) as Appendix B1 to this BAR; ble, all alternative properties and locations.
 Detailed site development plan(s) must be prepared for each alternative site or alternative activity. The site plans must contain or conform to the following: The detailed site plan must preferably be at a scale of 1:500 or at an appropriate scale. The scale must be clearly indicated on the plan, preferably together with a linear scale. The property boundaries and numbers of all the properties within 50m of the site must be indicated on the site plan. On land where the property has not been defined, the co-ordinates of the area in which the proposed activity or development is proposed must be provided. The current land use (not zoning) as well as the land use zoning of each of the adjoining properties must be clearly indicated on the site plan. The position of each component of the proposed activity or development as well as any other structures on the site must be indicated on the site plan. Services, including electricity supply cables (indicate aboveground or underground), water supply pipelines, boreholes, sewage pipelines, storm water infrastructure and access roads that will form part of the proposed development <u>must</u> be clearly indicated on the site plan. Servicudes and an indication of the purpose of each servitude must be included on the site plan. Sensitive environment<u>al</u> elements within 100m of the site must be included on the site plan, including (but not limited to): Watercourse / Rivers / Wetlands Flood lines (i.e., 1:100 year, 1:50 year and 1:10 year where applicable); Ridges; Cultural and historical features/landscapes; Areas with indigenous vegetation (even if degraded or infested with alien species). Whenever the slope of the site exceeds 1:10, a contour map of the site must be submitted. North arrow A map/site plan must also be provided at an appropriate scale, which superimposes the proposed development and its associated struc
Colour photographs of the site that shows the overall condition of the site and its surroundings (taken on the site and taken from outside the site) with a description of each photograph. The vantage points from which the photographs were taken must be indicated on the site plan, or locality plan as applicable. If available, please also provide a recent aerial photograph. Photographs must be attached to this BAR as Appendix C . The aerial photograph(s) should be supplemented with additional photographs of relevant features on the site. Date of photographs must be included. Please note that the above requirements must be duplicated for all alternative sites.

Biodiversity Overlay Map:	A map of the relevant biodiversity information and conditions must be provided as an overlay map on the property/site plan.
Linear activities or development and multiple properties	GPS co-ordinates must be provided in degrees, minutes and seconds using the Hartebeeshoek 94 WGS84 co-ordinate system. Where numerous properties/sites are involved (linear activities) you must attach a list of the Farm Name(s)/Portion(s)/Erf number(s) to this BAR as an Appendix. For linear activities that are longer than 500m, please provide a map with the co-ordinates taken every 100m along the route to this BAR

ACRONYMS

BGCMA:	Breede-Gourits Catchment Management Agency
CBA:	Critical Biodiversity Area
DAFF:	Department of Forestry and Fisheries
DEA:	Department of Environmental Affairs (National)
DEA& DP:	Department of Environmental Affairs and Development Planning (Provincial)
DoA:	Department of Agriculture
DoH:	Department of Health
DWS:	Department of Water and Sanitation
EAP:	Environmental Assessment Practitioner
ECO:	Environmental Control Officer
EMPr:	Environmental Management Programme
ESA:	Ecological Support Area
HWC:	Heritage Western Cape
NFEPA:	National Freshwater Ecosystem Protection Assessment
NSBA:	National Spatial Biodiversity Assessment
TOR:	Terms of Reference
WCBSP:	Western Cape Biodiversity Spatial Plan
WCG:	Western Cape Government

SECTION A: ADMINISTRATIVE DETAILS

	CAPE TOWN OFFICE:		GEORGE OFFICE:	
Highlight the Departmental Region in which the intended application will fall	REGION 1 (City of Cape Town, West Coast District	REGIC (Ca Winela Distric Overt Distri	pe ands ct & perg	REGION 3 (Central Karoo District & Garden Route District)
Duplicate this section where there is more than one Proponent Name of Applicant/Proponent:	IDEAL TRADING 301 CC			
Name of contact person for Applicant/Proponent (if other):	Christo Spies / Dic	ck Francois	Swanich	
Company/ Trading name/State Department/Organ of State:				
Company Registration Number:	2010/122651/23			
Postal address:	P.O BOX 89			
	Hartenbos		Postal code:	6520
Telephone:			Cell:	076 635 1997
E-mail:	: christo@cobrafuel.co.za Fax:			
Company of EAP:	Cape Environme	ntal Assessi	ment Prac	ctitioners (Cape EAPrac)
EAP name:	Ms Louise-Mari van Zyl			
Postal address:	PO Box 2070			
	George		Postal code:	6530
Telephone:	044 874 0365		Cell:	071 603 4132
E-mail:	louise@cape- eaprac.co.za		044 874 0432	
Qualifications:	MA Geography & Environmental Studies			
EAPASA registration no:	2019/1444			

Duplicate this section where there is more than one landowner Name of landowner:	Same as Applicant		
Name of contact person for landowner (if other):			
Postal address:			
		Postal code:	
Telephone:		Cell:	
E-mail:		Fax:	
Name of Person in control of the land: Name of contact person	Same as Applicant		
for person in control of the land:			
Postal address:			
		Postal code:	
Telephone:	()	Cell:	
E-mail:		Fax:	

Duplicate this section where there is more than one Municipal Jurisdiction Municipality in whose area of jurisdiction the proposed activity will fall:	Mossel Bay Municipality			
Contact person:	Jaco Roux			
Postal address:	PO Box 25			
	Mossel Bay	Postal code:	6500	
Telephone	044 606 5071	Cell:	083 740 6898	
E-mail:	jroux@mosselbay.gov.za	Fax:		

SECTION B: CONFIRMATION OF SPECIFIC PROJECT DETAILS AS INCLUDED IN THE APPLICATION FORM

Is the proposed developmer (please tick):	New√	Expansion	
---	------	-----------	--

2. Is the proposed site(s) a brownfield of greenfield site? Please explain.

Greenfield.

Prior Environmental Authorisation (EA) was issued for development of the Vista de Bahia Retirement village on the southern portion of Portion A (copy of EA and Extension EA attached).

The original EA was valid until 13 October 2009 and the validity period was successfully extended till 13 October 2015 permitting a retirement village south of Impala Way.

The owner of the property since passed away and Ideal Trading 301 CC bought the property for development purposes.

The property consists of four (4) portions due to the various roads that cut through the property:

- Portion A = +/-10.20ha [subject development area]
- **Portion B** = +/-0.77ha [Main Road 344, Provincial Road]
- Portion C = 8.48ha [remains Agriculture] and
- Portion D = Remainder Farm 139 [remains Agriculture north of the N2].

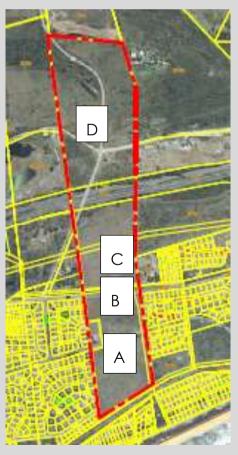


Figure 4: Orientation map showing Portion A in relation to the Remainder Zandhoogte 139.

Area A is the focus of this development application.

<u>Area B</u> is the MR334 provincial road.

<u>Area C</u> This portion is excluded from the development application.

<u>Area D</u> is situated outside of the urban edge and falls within the 800m buffer of the sewage works. This portion is excluded from the development application.

The study site (Areas A) falls completely within the urban area of Tergniet. The majority of the study site is surrounded by existing residential development on the south, west and eastern boundaries that are single residential properties, mostly double storey structures.

The railway line (Transnet) and PetroSA watermain (servitude) form the southern border of Area A, and MR334 the northern border. Portion A is bisected by Impala Way which will serve as the point of access to both the northern and southern portions.

All internal services will link to the existing municipal services that are already available via the registered servitudes and that services the surrounding Tergniet township.



Figure 5: Servitudes present across Remainder Zandhoogte 139 (Portion A).

The intention of the Applicant is to development in two (2) phases, with **Phase 1** starting in 2021 – 2024 and **Phase 2** from 2024 -2028.

The Municipality awarded a contract to Lejamo Construction in June 2020 for installation of the Midbrak sewer network for the greater area. The network crosses over Remainder Farm Zandhoogte 139, along the southern boundary next to the railway/PetroSA waterline, as well as along the western boundary. Construction is currently underway and is expected to be finished by May 2021. The DEADP reference for this pipeline is 16/3/3/6/4/D6/35/0267/19 dated 28 January 2020.

3.	For Linear activities or developments
3.1	Provide the Farm(s)/Farm Portion(s)/Erf number(s) for all routes:

г

3.2	Development footprint of the proposed development for all alternatives.									
3.3	Provide a description of the proposed development (e.g. for roads the length, width and width of the road reserve in the case of pipelines indicate the length and diameter) for all alternatives.									
3.4.	Indicate how acc	cess to the proposed routes w	ill be obtained for all alte	ərnativ	OS.					
3.6	^{.6} Starting point co-ordinates for all alternatives									
	Latitude (S)	0	í	"						
	Longitude (E) ° "									
	Middle point co-ordinates for all alternatives									
	Latitude (S)	0	٢	"						
	Longitude (E) ° "									
	End point co-ordir	nates for all alternatives								
	Latitude (S) ° "									
	Longitude (E)	0	٤	**						
		s or developments longer tha e route must be attached to t		the co	o-ordinates					
4.	Other developme	nts								
4.1	Property size(s) of all proposed site(s): 10.2ha									
4.2	Developed footprint of the existing facility and associated infrastructure (if applicable):									
4.3	Development footprint of the proposed development and associated 10.2ha 10.2ha									
4.4	Provide a detailed description of the proposed development and its associated infrastructure (This must include details of e.g. buildings, structures, infrastructure, storage facilities, sewage/effluent treatment and holding facilities).									

The development of Portion A of Remainder Zandhoogte 139 is considered infill development. The land is surrounded by existing township development and qualifies for optimising vacant land within urban areas. The proposal includes the following components:

LEGEND:									
	ZONING	LAND USE	QTY	AREA (HA)	%				
	General Residential Z1	Group Housing	160	5,0193	49.18				
	General Residential Z3	Flats	3	0,8701	8.53				
	Open Space Zone II	Private Open Space	4	1,3018	12.76				
	Transport Zone II	Public Street	1	0,4754	4.66				
	Transport Zone III	Private Street	4	2,5391	24.87				
	TOTAL		172	10,2056	100				

Figure 6: Development breakdown for Preferred Alternative 1 Zandhoogte Estate (Source: Vreken 2020).

- **Density overall:** Approximately 20 units/ha
- <u>General Residential III (flats)</u>: consist of three erven along MR334, each with provision for 12x, 24x and 12x flats (total 48 flats) offering a mixture of 2-3 bedroom units. The three blocks will not exceed three (3) storeys in height



Figure 7: Three General Residential flat block erven (48 flat units).

- <u>Group housing:</u> Sizes of erven vary between 580m² 265m² with two large erven (+/- 900m²) along Impala Avenue.
- Landscaping: Internal open space areas are for landscaping, recreational use and services. A stormwater retention pond is proposed in the south easter corner of the application area as part of internal open space.
- **Fencing:** All boundaries to be solid walls except for the southern boundary of Phase 2 which will be ClearVu overlooking Impala Avenue.
- <u>Water</u>: Bulk supply has been reserved for this development since 2007 (prior approvals). Existing municipal water lines run along the MR334 as well as Impala Way. Connecing pipes will vary between 75mm and 110mm diameter. Bulk annual daily demand for the development has been calculated at 149kl/day. Water saving measures such as rainwater tanks (group housing units), duel flush toilets, low flow shower heads must be installed for all units. The Municipality must confirm available surplus capacity.
- <u>Sewage</u>: The Municipal MidBrak Sewer upgrades are currently underway. The 250mm main sewer line running through the southern portion of the study site is under construction and expected to be finalised by May 2021. Household connection lines will be 110mm diameter and main lines will be 160mm diameter. Average daily flow for the proposed development is calculated at 138kl/day. The municipal system pumps sewage to the Great Brak Wastewater Treatment Works (WWTW) for which the Municipality must confirm sufficient surplus treatment capacity.
- Fire: Fire hydrants are supplied as part of the development services layout.
- <u>Solid Waste:</u> On-site collection points are provided as part of the proposal for each portion. Waste will be collected by the Municipality as part of the greater Tergniet collection. Construction waste will be handled at the designated Great Brak site. The Municipality must confirm sufficient landfill space at these licensed facilities.

• <u>Electricity:</u> The estimated capacity load for the development is 630kVA. According to Element Engineers (2019) there is sufficient capacity on the existing 11kV reticulation line to accommodate this load. Nonetheless use will be made of energy saving street lights, LED in all units, heat/solar pumps or similar to conserve energy. The existing overhead line that runs along the length of the eastern boundary of the study site will be removed and replaced with a 70mm underground cable within the same servitude, along the same alignment. A new 630kVA mini-sub will be installed on the Impala Avenue pavement that will connect to the existing ring main mini-sub that already feeds into the 11kVA line. Connection will be underground within Impala Avenue reserve.



Figure 8: The existing overhead line that runs along the eastern boundary of the site will be replaced with an underground cable.

• <u>Stormwater</u>: Due to the moderate gradient of the site (especially the southern portion) it is likely that lateral movement of stormwater will be fast and this can liquify silty soils and transport topsoil. A formal system will be developed consisting of street kerbing, lined channels, stormwater pipes, catchpits and a retention pond in the south eastern corner of the property. All pipe outlets will be fitted with headwalls and gabion/reno mattresses as energy dissipaters to prevent unwanted erosion. All outlets will be fitted with litter traps which will be the responsibility of the managing agent (body corporate / homeowners association) to clean out to prevent blockages. Each group housing unit must be fitted with rainwater tans to reduce runoff.



Figure 9: Stormwater drainage catchments for the study site (Source: Element Engineers 2019).

Drainage of the southern portion (**Zone A**) amounts to approximately 80% of the total runoff. A stormwater retention pond is provided in the south-eastern corner of the site, abutting the PetroSA water line servitude and Transnet Railway line. Infiltration levels in the aera is very high and flow from the retention pond will filter into the sand at the lowest point of the site towards the east (refer to Figure 8 for discharge direction).

Zone B drains to Impala Avenue. A culvert will be constructed underneath Impala Avenue from where it will discharge into a constructed open channel along the eastern boundary of the southern portion (within the servitude) into the retention pond in the south-eastern corner in Zone A.

Zone C drains towards the MR334 and will discharge into an existing culvert underneath the MR334.

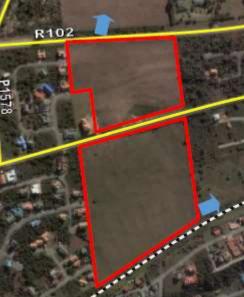


Figure 10: Image indicating stormwater discharge direction from the site (Source: Element Engineers

2019).

4.5 Indicate how access to the proposed site(s) will be obtained for all alternatives.

<u>Access:</u>

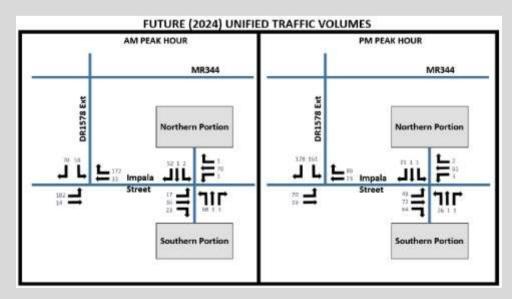
- The existing farmhouse entrance will be closed and consolidated to recreate a new dual access directly off Impala Avenue to the northern portion for 48 group housing units and three flats properties (48 flats);
- Dual access directly off Impala Avenue to the southern portion for 112 group housing units.
- Access will be 6m wide and internal roads 5.2m wide.

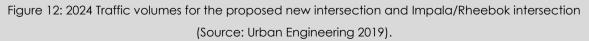


Figure 11: Two dual accesses off Impala Street to the north and southern portions.

This intersection is approximately 134m from the Impala Road intersection, +/-100m from the Seekat Road intersection (P1578) to the west and in excess of 200m to the closest intersection to the east. The average sight distance is 110m according to Urban Engineering which is more than the minimum 80m, which puts the proposed intersection with sufficiently space for a minor road with a 60km speed limit.

Urban Engineers conducted a Traffic Impact Assessment in 2019 (traffic counts conducted on At Rheebok Street/Impala Avenue intersection and at the study site. Taking into account that the MR334 was upgraded during 2020 the overall road conditions have improved since 2019 and a higher than average growth rate was assumed for the area (3.5% per annum = considered high growth) over a period of five (5) years (till 2024). The anticipated traffic flows are depicted in Figure 12 below:





The findings of the TIA stipulate that the Rheebok/Impala Avenue intersection operates at an overall range between level B & C (A being the best and F being the worst), which is deemed to be acceptable when approaching the intersection from the easterly side. The current LoS when approaching the intersection from the western direction however is unacceptable. However this is not as a result of the proposed development. Upgrade of the western approach is a municipal function to improve the current LoS constraints. Volume/capacity ratios are considered acceptable, especially coming from the eastern side (from the development direction towards the intersection). The additional traffic associated with the proposed development will impact on the level of service (LoS) associated with the Rheebok/Impala Avenue intersection, but within acceptable limits (Level B).

A **dedicated 3m wide right turn lane** must be constructed on **Impala Avenue** to ensure that traffic turning into the southern portion of the development, does not cause traffic delays along Impala Avenue travelling in an easterly direction. This upgrade must allow at least three (3) vehicle stacking distance.

No direct access is proposed via any of the existing, internal road networks within the eastern or western residential areas. If deemed necessary, temporary construction access may be requested from the Department of Transport (from the MR334) for the northern portion and from Transnet for access along the railway line, or Seester Street in the south.

Permanently locked gates will provide **emergency exits** to Seester Street (southern portion) and the MR334 (norther portion).

The entrances to the northern/southern portions will have **gatehouses to control access** and will have **sufficient space for public transport** i.e. taxi's / waste removal vehicles to turn around safely before re-entering Impala Avenue.

The site has a moderate gradient in a south-easterly direction with the highest difference in elevation between Impala Avenue and the southern portion of the study site. Point of access for the preferred Alternative has been informed by slope analysis (Element Engineers) and is proposed at the least steep portion of the study site. Approximately 20% of the site (orange) is steeper than 1:7,5 but not steeper than 1:6. According to Element Engineers there is no slope instability on the site. Access off Impala Avenue has been positioned outside of the steepest portion to avoid too much infill for the access to the southern portion.

	Figure 13: Slop	pe ar	haly	sis for	t the	stuc	dy site	e indi	-Te -	ing t	ne s	stee	Ppesi		rt o	f the	site	e (orc	inge)			
4.6	SG Digit code(s) of the proposed site(s) for all alternatives:	С	0	5	1	0	0	0	0	0	0	0	0	0	1	3	9	0	0	0	0	0
Coordinates of the proposed site(s) for a								or all	all alternatives:													
4.7 Latitude (S)							34° 4'					4''										
·	Longitude (E)								22	0				11'					27	7''		

SECTION C: LEGISLATION/POLICIES AND/OR GUIDELINES/PROTOCOLS

1. EXEMPTION APPLIED FOR IN TERMS OF THE NEMA AND THE NEMA EIA REGULATIONS

Has exemption been applied for in terms of the NEMA and the NEMA EIA	VEC	NO
Regulations. If yes, include a copy of the exemption notice in Appendix E18.	TE3	NO

2. IS THE FOLLOWING LEGISLATION APPLICABLE TO THE PROPOSED ACTIVITY OR DEVELOPMENT

The National Environmental Management: Integrated Coastal Management Act, 2008 (Act No. 24 of 2008) ("ICMA"). If yes, attach a copy of the comment from the relevant competent authority as Appendix E4 and the pre-approval for the reclamation of land as Appendix E19.	¥ ES	NO
The National Heritage Resources Act, 1999 (Act No. 25 of 1999) ("NHRA"). If yes,	YES	NO
attach a copy of the comment from Heritage Western Cape as Appendix E1.		
The National Water Act, 1998 (Act No. 36 of 1998) ("NWA"). If yes, attach a copy	YES	NO
of the comment from the DWS as Appendix E3.		

The National Environmental Management: Air Quality Act, 2004 (Act No. 39 of 2004) ("NEM:AQA"). If yes, attach a copy of the comment from the relevant authorities as Appendix E13.	¥ ES	NO
The National Environmental Management Waste Act (Act No. 59 of 2008) ("NEM:WA")	YES	NO
The National Environmental Management Biodiversity Act, 2004 (Act No. 10 of 2004 ("NEMBA").	YES	NO
The National Environmental Management: Protected Areas Act, 2003 (Act No. 57 of 2003) ("NEMPAA").	YES	NO
The Conservation of Agricultural Resources Act, 1983 (Act No. 43 of 1983). If yes, attach comment from the relevant competent authority as Appendix E5.	YES	NO

3. OTHER LEGISLATION

List any other legislation that is applicable to the proposed activity or development.

3.3. Spatial Planning and Land Use Management, 2013 (ACT 16 OF 2013)

Section 42 of SPLUMA prescribe certain aspects that must be taken into consideration when deciding on a land development application. These are:

(1). Development principles set out in Chapter 2 of SPLUMA

(2). Protect and promote the sustainable use of agricultural land

(3). National and provincial government policies the municipal development framework and take into account:

- (i) The public interest
- (ii) The constitutional transformation imperatives and the related duties of the State.
- (iii) The facts and circumstances relevant to the application
- (iv) The respective rights and obligations of all those affected
- (v) The state and impact of engineering services, social infrastructure and open space requirements and
- (vi) Any factors that may be prescribed, including timeframes for making decisions.

3.4. National Forest Act

The study site does not contain any protected trees.

- One small milkwood tree in the north-western corner of the northern portion is situated within the property border and falls within the building line.
- Another large milkwood tree is found on the southern portion long the eastern boundary, within the building line and electrical servitude.

It is likely that both trees can be avoided during construction, however the engineers have been requested to confirm and fencing may require trimming of branches/roots

- The road reserve of Impala Avenue contains a few Cheesewood trees along its southern boundary. Trimming of branches/roots may be required to allow the underground electrical cable and access to the southern portion to be constructed.
- One small milkwood tree is situated in proximity where the entrance to the southern portion is position, this tree is likely to be removed when the Impala Road upgrade (additional right turn lane) happens.

The Department of Environmental, Fisheries & Forestry will be approached for comment as part of the application process.

4. POLICIES

Explain which policies were considered and how the proposed activity or development complies and responds to these policies.

4.1 Western Cape Provincial SDF

The Western Cape Provincial SDF was approved in 2014 by the Western Cape Parliament and serves as a strategic spatial planning tool that "communicates the provinces spatial planning agenda". The PSDF puts in place a coherent framework for the Province's urban and rural areas that:

- Gives spatial expression to National and provincial development agendas.
- Serves as basis for coordinated and integrated planning alignment on National and Provincial Departmental Programmes.
- Supports municipalities to fulfil their mandates in line with national and provincial Agendas.
- Communicates government's spatial development agenda.

The proposed development compliments the SDF's spatial goals that aim to take the Western Cape on a path towards:

- Greater productivity, competitiveness, and opportunities within the spatial economy.
- More inclusive developments and strengthening the economy in rural areas.
- Strengthening resilience and sustainable development.

4.2. Eden Spatial Development Framework (2017)

The Eden District Spatial Development Framework was approved in 2017 and aims to establish a strong strategic direction and vision, towards increasing levels of detail in the spatial recommendations that are directive rather than prescriptive and providing guidance to local municipalities in the District regarding future spatial planning, strategic decision making and regional integration. The vision and strategic direction identify four key drivers of spatial change within the District. These four strategies lie at the heart of this SDF and the problem statement, spatial concept, spatial proposals and implementation are organised around these directives.

The proposed development of the study site is regarded as being consistent with the Eden District SDF.

4.3. Mossel Bay Spatial Development Framework (2017)

The Spatial Development Framework (SDF) is one of the sectoral plans of an Integrated Development Plan. The Municipality has identified towns which has high growth potential. According to the results of the growth potential study that was conducted by provincial authority, growth and development strategies must be focused on towns that has relatively growth potential towards other towns, the Mossel Bay area being one of the area with a high growth potential.

The application area is located inside a demarcated urban edge of Tergniet and is also earmarked as a proposed "densification area". The proposal is therefore consistent with the local Municipal Spatial Development Framework.

4.4. Municipal Integrated Development Plan (2017-2022)

The key pillars of sustainability for the Mossel Bay Municipality are social well-being, Economic Viability and Environmental Integrity. According to the Municipal IDP, the key development priorities for Mossel Bay include:

- Commercial Development
- Industry Development

- Bulk Infrastructure Development
- Property Development
- Water security

The IDP highlights the following aspects for Mossel Bay in the IDP:

- There has been a change in the attitude of most residents towards a positivity regarding growth.
- Growth is inevitable and the focus should be on managing the growth to protect what is important to residents.
- When a critical mass development has is reached the element of crime will also manifest, therefore development should be strictly managed and guided towards a common goal of maintaining the "ambience" and "free" characteristics of the town.

The IDP recognises the need for property development in the Mossel Bay area, and also the need for growth and development on vacant land within the urban edge. It is the considered opinion that the proposed development of the study site is consistent with Mossel Bay IDP.

5. GUIDELINES

List the guidelines which have been considered relevant to the proposed activity or development and explain how they have influenced the development proposal.

The following Spatial Policy Statements & Guidelines are applicable to the proposed land development planning application:

Strategy: Growth management Policy 3.3.

Optimize existing infrastructure capacity and economic opportunity by directing mixed use, higher density development to areas of opportunity.

Guideline 3.3.7.

Promote compact development

- Density should occur within 800-1600m or 10-20 minutes from transport hubs and areas with mixed use activity.
- The promotion of a more compact city form requires an increase in average gross density. However, an increase in density should maintain the character and form certain heritage areas and natural environments so as to not damage or negatively impact the surroundings.
- Appropriate urban density is key to achieving the Eden SDF's policy objectives.

The proposed development is in proximity to existing commercial nodes and beaches.

The proposed development therefor conforms to the concept of integrated and compact urban development.

6. **PROTOCOLS**

Explain how the proposed activity or development complies with the requirements of the protocols referred to in the NOI and/or application form

The Screening Tool identifies the following studies as potentially being applicable to the proposed development:

Theme	Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
Agriculture Theme			Х	
Aquatic Biodiversity Theme				Х
Archaeological and Cultural		X		
Heritage Theme				
Civil Aviation Theme			X	
Plant Species Theme			Х	
Defence Theme				X
Terrestrial Biodiversity Theme	Х			

The environmental process commenced mid-2019 with specialist appointments and various studies. The Notice of Intent was submitted to the Department on 2 November 2020 thereby commencing the formal process. The **protocols (ito registrations and details of reports) are not applicable** to the studies that commenced prior to May and October 2020 (botanical / heritage).

The Screening Tool identifies:

- Biodiversity (VERY HIGH)
- Archaeology & Heritage (HIGH)
- Agriculture (MEDIUM)
- Civil Aviation (MEDIUM)
- Botanical (MEDIUM)
- Defence (LOW)
- Aquatic (LOW)

The site is not deemed botanically sensitive due to historical land use (grazing / moving / multiple servitudes for services). A limited number of small milkwood and cheesewood trees are present in the *Impala Road reserve*, and two more within the boundary of the study site on the property borders, within the servitude and building lines. Forestry applications may be required for the removal/trimming of said protected trees. A botanical study was conducted by Dr Jan Vlok in 2019 and the Department of Forestry will be approached for comment as part of the application process.

As part of the planning application the Heritage Western Cape confirmed that the site is not deemed sensitive and they issued their approval without the need for any further investigations/assessments.

The Department of Agriculture confirmed that despite the zoning being Agriculture. The site is within the urban edge and designated for township development, thus Act 70 of 70 does not apply. No further soil studies or agriculture potential studies are required.

The site is situated far from the closest airport and poses no threat to civil aviation operations. An obstacle application has been submitted to the SACAA and their provisional approval will be included with the Basic Assessment report.

Defence is not considered of any concern and no further studies are required.

The site does not contain any aquatic features. There are no wetlands or drainage lines on or within 500m from the boundary of the site. No further studies are required. The BGCMA will be approached for comment as part of the application process.

Refer to Appendix D. For a copy of the Site Verification Report.

SECTION D: APPLICABLE LISTED ACTIVITIES

List the applicable activities in terms of the NEMA EIA Regulations

Activity No(s):	Provide the relevant Basic Assessment Activity(ies) as set out in Listing Notice 1	Describe the portion of the proposed development to which the applicable listed activity relates.
27	The clearance of an area of 1 hectares or more, but less than 20 hectares of indigenous vegetation, except where such clearance of indigenous vegetation is required for (i) The undertaking of a linear activity; or (ii) Maintenance purposes undertaken in accordance with a maintenance management plan.	The Dune Thicket that may have occured in the study area was removed from the entire proposed development area many years ago and the area was used as agricultural lands thereafter. These lands have not been ploughed in recent years, however the site has been brushcutted frequently and used for grazing. As a result the ground cover consist mostly of grass species, with some pioneer/climax species. The site has not been exposed to ecological burns. The property falls outside designed CBA areas and the vegetation type on the site is considered to be 'least concerned' .
28	Residential, mixed, retail, commercial, industrial or institutional development where such land was used for agriculture or after 1 April 1998 and where such development (i) will occur within an urban area, where the total land to be developed is bigger than 5 hectares.	The property is roughtly 10.2ha and is is zoned Agriculture I and was used for agriculture/grazing till change in ownership.
Activity No(s):	Provide the relevant Basic Assessment Activity(ies) as set out in Listing Notice 3	Describe the portion of the proposed development to which the applicable listed activity relates.
Note: • The listed activ	ities specified above must reconcile with ac	ivities applied for in the application

• The listed activities specified above must reconcile with activities applied for in the application form. The onus is on the Applicant to ensure that all applicable listed activities are included in the application. If a specific listed activity is not included in an Environmental Authorisation, a new application for Environmental Authorisation will have to be submitted.

• Where additional listed activities have been identified, that have not been included in the application form, and amended application form must be submitted to the competent authority.

List the applicable waste management listed activities in terms of the NEM:WA	List the applicable	waste manageme	ent listed activities	in terms of the NEM:WA
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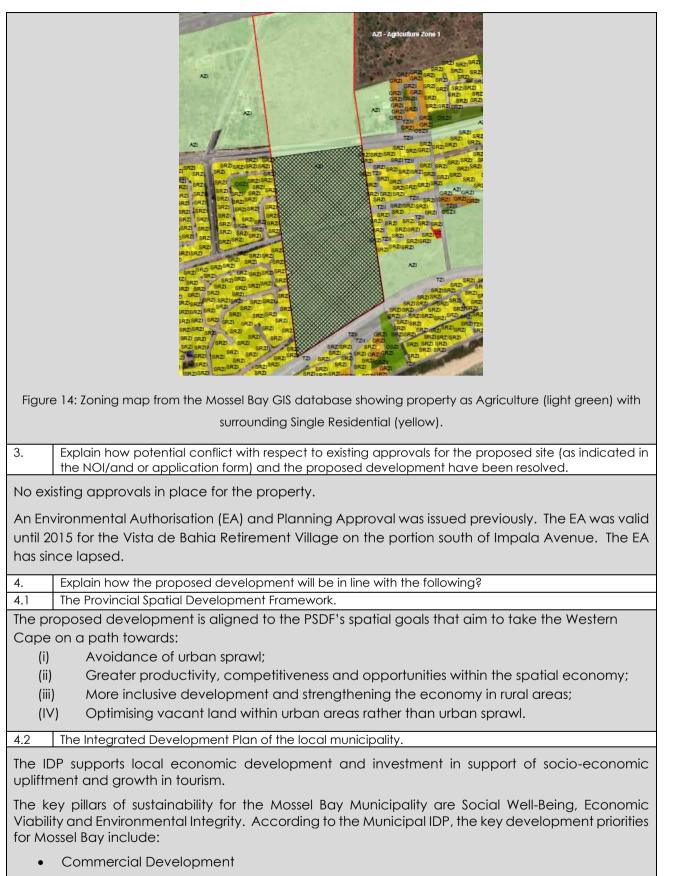
Provide the relevant Basic Assessment Activity(ies) as set out in Category A	Describe the portion of the proposed development to which the applicable listed activity relates.

List the applicable listed activities in terms of the NEM:AQA

Activity No(s):		Describe the portion of the proposed
,	Provide the relevant Listed Activity(ies)	development to which the applicable
		listed activity relates.

SECTION E: PLANNING CONTEXT AND NEED AND DESIRABILITY

1.	Provide a description of the preferred alternative.			
The proposal entails the following:				
•	 Rezoning of Portion A (10.2ha) to Subdivisional Area to enable the subdivision of the property in various residential uses, namely: 160x General Residential Zone I erven (group housing) = 49.18% of site (5ha) 3x General Residential Zone III erven (flats) = 8.53% of site (0.87ha) 4x Private Open Space erven = 12.76% of site (1.3ha) 1x Public Street (Transport Zone II) = 4.66% of site (1.47ha) 4x Private Street (Transport Zone III) = 24.87% of site (2.53ha) Link services infrastructure, namely water, sewage reticulation, stormwater drainage, 11kVA overhead line, will link up with the existing municipal services. Upgrade of Impala Avenue by expanding with road with a dedicated right turn lane to access the southern portion of the development. 			
2.	Explain how the proposed development is in line with the existing land use rights of the property as you have indicated in the NOI and application form? Include the proof of the existing land use rights granted in Appendix E21.			
The site does not have existing development rights other than what is associated with Agricultural				
zoning. Act 70 of 70 does not apply despite the zoning as the site has been earmarked for township				
development in line with optimising vacant land within urban areas.				



- Industry Development
- Bulk Infrastructure Development
- Property development
- Water Scarcity

The development will amount to a number of temporary employment opportunities during construction, as well as a number of permanent employment opportunities, for skilled, semi-skilled and unskilled persons through opportunities in administration, healthcare, landscaping and security.

4.3. The Spatial Development Framework of the local municipality.

Mossel Bay has been identified by the SDF as one of the towns which has high growth potential. The application area is located inside the demarcated urban edge of Tergniet, and it is also earmarked as a proposed "densification" area.

Section E(9) of the Basic Assessment report template (Planning Context and Need & Desirability) specifically enquires about how a project/activity will help to optimise vacant land within urban areas. This development proposal achieves these criteria, as opposed to urban sprawl.

4.4. The Environmental Management Framework applicable to the area.

Not applicable

5. Explain how comments from the relevant **authorities and/or specialist(s)** with respect to **biodiversity** have influenced the proposed development.

The site is transformed and not deemed sensitive.

Protected trees that occur within the western and eastern service servitudes (within the building lines) may be affected with services/fencing.

Protected trees that occur within the Impala Avenue road reserve may be affected with services and expansion of Impala Avenue to create a dedicated right turn lane into the southern portion of the development.

6. Explain how the **Western Cape Biodiversity Spatial Plan** (including the guidelines in the handbook) has influenced the proposed development.

The site is not deemed sensitive from a botanical or aquatic perspective.

7. Explain how the proposed development is in line with the intention/purpose of the relevant zones as defined in the ICMA.

The property falls outside the Eden Coastal Management Line (CML), Coastal Development Zone (CDZ) and 100yr Erosion Risk Zone.

8. Explain whether the screening report has changed from the one submitted together with the application form. The screening report must be attached as Appendix I.

The screening tool has not changed. It is still the same screening tool submitted with the notice of intent.

9. Explain how the proposed development will optimise vacant land available within an urban area.

The vacant land will be developed into residential development.

Land that is situated close to public amenities, transport routes and commercial businesses is ideal for urban densification.

Development of the study site helps with avoidance of urban sprawl, supports greater productivity and opportunities within the spatial economy, strengthens the economy in rural areas by allowing permanent residents rather than seasonal influx/tourism only thereby ensuring more inclusive development within Tergniet.

Explain how the proposed development will optimise the use of existing resources and infrastructure.
 Access into the proposed development will be from Impala Avenue (upgrade required for a dedicated right turn lane into the southern portion of the development);

- Water, sewer reticulation and electrical services will be connected into existing municipal services with no requirements for bulk upgrades.
- 11. Explain whether the necessary services are available and whether the local authority has confirmed sufficient, spare, unallocated service capacity. (Confirmation of all services must be included in Appendix E).

Mossel Bay Municipality previously confirmed availability of services when development was authorised on the southern portion of the site. The Municipality will be approached to confirm services availability and surplus capacity as part of the ongoing environmental process. The consulting engineers, Element Engineers, have reported that sufficient services capacity is available.

- <u>Water</u>: Bulk supply has been reserved for this development since 2007 (prior approvals). Existing municipal water lines run along the MR334 as well as Impala Way. Connecting pipes will vary between 75mm and 110mm diameter. Bulk annual daily demand for the development has been calculated at 149kl/day. Water saving measures such as rainwater tanks (group housing units), duel flush toilets, low flow shower heads must be installed for all units. The Municipality must confirm available surplus capacity.
- <u>Sewage</u>: The Municipal MidBrak Sewer upgrades are currently underway. The 250mm main sewer line running through the southern portion of the study site is under construction and expected to be finalised by May 2021. Household connection lines will be 110mm diameter and main lines will be 160mm diameter. Average daily flow for the proposed development is calculated at 138kl/day. The municipal system pumps sewage to the Great Brak Wastewater Treatment Works (WWTW) for which the Municipality must confirm sufficient surplus treatment capacity.
- **<u>Fire:</u>** Fire hydrants are supplied as part of the development services layout.
- <u>Solid Waste:</u> On-site collection points are provided as part of the proposal for each portion. Waste will be collected by the Municipality as part of the greater Tergniet collection. Construction waste will be handled at the designated Great Brak site. The Municipality must confirm sufficient landfill space at these licensed facilities.
- <u>Electricity:</u> The estimated capacity load for the development is 630kVA. According to Element Engineers (2019) there is sufficient capacity on the existing 11kV reticulation line to accommodate this load. Nonetheless use will be made of energy saving street lights, LED in all units, heat/solar pumps or similar to conserve energy. The existing overhead line that runs along the length of the eastern boundary of the study site will be removed and replaced with a 70mm underground cable within the same servitude, along the same alignment. A new 630kVA mini-sub will be installed on the Impala Avenue pavement that will connect to the existing ring main mini-sub that already feeds into the 11kVA line. Connection will be underground within Impala Avenue reserve.
- <u>Stormwater</u>: Due to the moderate gradient of the site (especially the southern portion) it is likely that lateral movement of stormwater will be fast and this can liquify silty soils and transport topsoil. A formal system will be developed consisting of street kerbing, lined channels, stormwater pipes, catchpits and a retention pond in the south eastern corner of the property. All pipe outlets will be fitted with headwalls and gabion/reno mattresses as energy dissipaters to prevent unwanted erosion. All outlets will be fitted with litter traps which will be the responsibility of the managing agent (body corporate / homeowners association) to clean out to prevent blockages. Each group housing unit must be fitted with rainwater tans to reduce runoff.

Conservation measures:

Potable water supply:

- i. Each group housing unit must be fitted with rainwater storage tanks.
- ii. Units must be fitted with duel flush toilets, low flow shower heads.
- Solid Waste:
 - I. Recycling at source is recommended.
- Electricity and electricity distribution:
 - I. All units to be fitted with LED lights;
 - II. Energy saving street lights must be installed;
 - III. Solar/heat pumps (or similar) must be used throughout the development.

<u>Stormwater design (SUDS orientated):</u>

- i. Group housing units must be fitted with rainwater tanks to reduce intensity runoff volumes;
- ii. Exposed surfaces such as gardens and private open space consist of sandy soils with high permeability levels with quick absorption capacity,
- iii. All paving must be segmented, permeable paving that supports infiltration to reduce stormwater volumes at source which is in line with the SUDS stormwater approach.
- 12. In addition to the above, explain the **need and desirability** of the proposed activity or development in terms of this Department's guideline on Need and Desirability (March 2013) or the DEA's Integrated Environmental Management Guideline on Need and Desirability.

The development proposal is **consistent with all the applicable spatial planning policies**, it is consistent with the Mosel Bay IDP and consistent with the **character of the area**.

A similar development was **previously approved** on the southern portion of the site (approximately 6ha) with both environmental authorisation and planning authorisation issued (since lapsed).

The site is situated within the **urban edge**.

Development of the site supports the principle of **optimising vacant land** within urban areas.

The site can be readily connected to **municipal services**.

Development proposed is similar to surrounding developments also being of a residential nature.

SECTION F: PUBLIC PARTICIPATION

The Public Participation Process ("PPP") must fulfil the requirements as outlined in the NEMA EIA Regulations and must be attached as Appendix F. Please note that If the NEM: WA and/or the NEM: AQA is applicable to the proposed development, an advertisement must be placed in at least two newspapers.

1. Exclusively for linear activities: Indicate what PPP was agreed to by the competent authority. Include proof of this agreement in App J.

Approved Public Participation Plan attached as Appendix I.

2. Confirm that the PPP as indicated in the application form has been complied with. All the PPP must be included in Appendix F.

Public participation as indicated in the Public Participation Plan will be complied with.

Comments received during the mandatory 30-day commenting period on the BAR, will be considered by the project team and a detailed Comments & Response Report will be compiled.

3. Confirm which of the State Departments and Organs of State indicated in the Notice of Intent/application form were consulted with.

Department of Health Department of Transport Department of Water Affairs (via BGCMA) Mossel Bay Municipality

CapeNature

Department of Agriculture

SACAA

Department of Forestry

Department of Environmental Affairs & Development Planning Heritage Western Cape Garden Route District Municipality SANRAL Transnet PetroSA

- 4. If any of the State Departments and Organs of State were not consulted, indicate which and why.
- 5. if any of the State Departments and Organs of State did not respond, indicate which.
- 6. Provide a summary of the issues raised by I&APs and an indication of the manner in which the issues were incorporated into the development proposal.

Comments received from registered I&APs in response to the pre-application BAR and draft BAR will be considered and responded to during the ongoing environmental application process.

Note:

A register of all the I&AP's notified, including the Organs of State, <u>and</u> all the registered I&APs must be included in Appendix F. The register must be maintained and made available to any person requesting access to the register in writing.

The EAP must notify I&AP's that all information submitted by I&AP's becomes public information.

Your attention is drawn to Regulation 40 (3) of the NEMA EIA Regulations which states that "Potential or registered interested and affected parties, including the competent authority, may be provided with an opportunity to comment on reports and plans contemplated in subregulation (1) prior to submission of an application but **must** be provided with an opportunity to comment on such reports once an application has been submitted to the competent authority."

All the comments received from I&APs on the pre -application BAR (if applicable and the draft BAR must be recorded, responded to and included in the Comments and Responses Report and must be included in Appendix F.

All information obtained during the PPP (the minutes of any meetings held by the EAP with I&APs and other role players wherein the views of the participants are recorded) and must be included in Appendix F.

Please note that proof of the PPP conducted must be included in Appendix F. In terms of the required "proof" the following is required:

- a site map showing where the site notice was displayed, dated photographs showing the notice displayed on site and a copy of the text displayed on the notice;
- in terms of the written notices given, a copy of the written notice sent, as well as:

- if registered mail was sent, a list of the registered mail sent (showing the registered mail number, the name of the person the mail was sent to, the address of the person and the date the registered mail was sent);
- if normal mail was sent, a list of the mail sent (showing the name of the person the mail was sent to, the address of the person, the date the mail was sent, and the signature of the post office worker or the post office stamp indicating that the letter was sent);
- if a facsimile was sent, a copy of the facsimile Report;
- o if an electronic mail was sent, a copy of the electronic mail sent; and
- if a "mail drop" was done, a signed register of "mail drops" received (showing the name of the person the notice was handed to, the address of the person, the date, and the signature of the person); and
- a copy of the newspaper advertisement ("newspaper clipping") that was placed, indicating the name of the newspaper and date of publication (of such quality that the wording in the advertisement is legible).

SECTION G: DESCRIPTION OF THE RECEIVING ENVIRONMENT

All specialist studies must be attached as Appendix G.

1. GROUNDWATER

1.1.	Was a specialist study conducted?	YES	NO		
1.2.	Provide the name and or company who conducted the specialist study.				
	1		_		
1.3.	Indicate above which aquifer your proposed development will	be located a	nd explain how		
	this has influenced your proposed development.				
	Indicate the depth of aroundwater and explain how the depth	of groundwa	tor and type of		
1.4.	Indicate the depth of groundwater and explain how the depth aquifer (if present) has influenced your proposed development				
		-			

2. SURFACE WATER

2.2. Prov	ide the name and/or company who conducted the specie	alist study.				
		2.2. Provide the name and/or company who conducted the specialist study.				
	ain how the presence of watercourse(s) and/or wetlands o	on the property	r(ies) has			
influ	enced your proposed development.					

3. COASTAL ENVIRONMENT

3.1.	Was a specialist study conducted?	YES	NO
3.2.	Provide the name and/or company who conducted the specie	ilist study.	

3.3.	Explain how the relevant considerations of Section 63 of the ICMA were taken into account and explain how this influenced your proposed development.
3.4.	Explain how estuary management plans (if applicable) has influenced the proposed development.
3.5.	Explain how the modelled coastal risk zones, the coastal protection zone, littoral active zone and estuarine functional zones, have influenced the proposed development.

4. **BIODIVERSITY**

4.1.	Were specialist studies conducted?	YES	NO
4.2.	Provide the name and/or company who conducted the specialist studies.		
Dr Jan Vlok conducted a botanical impact assessment in addition to the original botanical assessment performed by Dr Dave McDonald. Dr Jan Vlok was appointed prior to the specialist protocols came into effect.			
 4.3. Explain which systematic conservation planning and other biodiversity informants such as vegetation maps, NFEPA, NSBA etc. have been used and how has this influenced your proposed development. 			

NSBA

NBF

NFEPA

CapeFarm Mapper

Sanbi

Protected Tree Species List

Western Cape Biodiversity Spatial Plan

Protected Trees have been identified and incorporated into the preferred Alternative.

The site is not deemed sensitive due to its transformed nature. Species diversity is very low and only a few pioneer and climax species are notable from the otherwise homogenous grass cover.



Figure 15: 2019 Aerial images of the study site as the northern and southern portions (Source: van Aardt 2019).

4.4. Explain how the objectives and management guidelines of the Biodiversity Spatial Plan have been used and how has this influenced your proposed development.

Optimisation of vacant land within urban areas is in support of urban sprawl which contributes to loss of habitat, fragmentation and loss of ecological functioning.

Explain what impact the proposed development will have on the site specific features and/or
 function of the Biodiversity Spatial Plan category and how has this influenced the proposed development.

The site is not indicated as a CBA, ESA or FPA. Due to the low ecological sensitivity of the site for fauna, flora and biodiversity, and its value as vacant land within the urban edge, it was not considered necessary to amend the layout plan to avoid remaining natural areas other than individual protected trees.

4.6.	If your proposed development is located in a protected area, explain how the proposed development is in line with the protected area management plan.
4.7.	Explain how the presence of fauna on and adjacent to the proposed development has influenced your proposed development.

The botanical / fauna and biodiversity of the site is deemed to be LOW.

This is set against the backdrop of surrounding land use types being a combination of urban developments, roads/railway (south/north) with only the vacant portion to the east remaining undeveloped.

Already, connectively to other remaining natural environments (outside of the study site) have been severely compromised due to human intervention and development with roads/railways surrounding the site, surrounded by urban development.

Lack of fire management (due to the risk it holds for existing urban developments) and regular mowing and grazing, have resulted in a homogenous habitat, consisting mostly of grasses with a few pioneer/climax species.

As a result, the development footprint optimises the entire site for the use of urban development to maximise development in favour of urban sprawl outside of defined urban areas.

5. GEOGRAPHICAL ASPECTS

Explain whether any geographical aspects will be affected and how has this influenced the proposed activity or development.

None will be affected.

6. HERITAGE RESOURCES

6.1.	Was a specialist study conducted?	YES	NO	
6.2.	Provide the name and/or company who conducted the specialist study.			
Stefan de Kock (Perception Planning)				
6.3.	Explain how areas that contain sensitive heritage resources have influenced the proposed development.			
Heritage Western Cape considered the specialist submissions and issued their decision confirming that no further assessments are required.				

7. HISTORICAL AND CULTURAL ASPECTS

Explain whether there are any culturally or historically significant elements as defined in Section 2 of the NHRA that will be affected and how has this influenced the proposed development.

None will be affected.

8. SOCIO/ECONOMIC ASPECTS

8.1. Describe the existing social and economic characteristics of the community in the vicinity of the proposed site.

Tergniet is a well-known and popular tourism and retirement destination within the Southern Cape. It is well managed by the Municipality and has a low crime rate. The town has access to the coast and a number of recreational features, which creates ample opportunity for residents and visitors to contribute to the local economy.

The character of the immediate area where the study site is location is similar in style which is mostly single residential development with a mixture of single and double storey buildings.

8.2.	Explain the socio-ecc	nomic value/contributio	on of the proposed	development.
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The development will create temporary employment opportunities during the construction phases to semi- and unskilled workers. Full time workers will be required in skilled and semi-skilled positions for maintenance and management.

Primary and secondary spending will arise from buying of building materials and operational spending will be associated with products and materials for maintenance (of houses / infrastructure).

8.3. Explain what social initiatives will be implemented by applicant to address the needs of the community and to uplift the area.

At least 50% of materials must be sources locally + minimum 50% local labour must be sourced locally.

Ownership of the property / company is private.

Explain whether the proposed development will impact on people's health and well-being
(e.g. in terms of noise, odours, visual character and sense of place etc) and how has this influenced the proposed development.

The development will result in temporary impacts during the construction phase.

The removal of ground cover will cause dust particles to become airborne which may result in dust pollution for periods of time.

Construction activities are associated with temporary noise that will impact on immediate neighbouring land uses.

Inconvenience during upgrade of Impala Avenue to create dedicated right turning land into the southern portion of the development.

SECTION H: ALTERNATIVES, METHODOLOGY AND ASSESSMENT OF ALTERNATIVES

1. DETAILS OF THE ALTERNATIVES IDENTIFIED AND CONSIDERED

1.1. Property and site alternatives to avoid negative impacts, mitigate unavoidable negative impacts and maximise positive impacts.

Provide a description of the **preferred property** and **site alternative**.

No alternative properties/site is considered for this application.

Section E(9) of this Basic Assessment report template (Planning Context and Need & Desirability) specifically enquires about **how a project/activity will help to optimise vacant land within urban areas**. This development proposal achieves this criteria, as opposed to urban sprawl.

Provide a description of any other property and site alternatives investigated.

No alternative sites were considered.

Provide a motivation for the preferred property and site alternative including the outcome of the site selection matrix.

No alternative sites were considered.

Provide a full description of the process followed to reach the preferred alternative within the site.

The property was previously owned by another. Development rights were applied for on the southern portion at the time and it was granted for a retirement village (Vista de Bahia Retirement Village).

The owner since passed away and the new owners wishes to development the site. The development rights lapsed in 2015.

The portion of the development that falls within the urban edge (portion immediately north and south of Impala Avenue) is designated for township development.

A site development proposal was compiled for group housing and flats. Access was proposed in the centre of the development portions (off Impala Avenue).

The gradient of the site and minimum requirements for safe distances between intersections (minimum 80m) dictated that the site development plan be amended by (a) moving the entrances to the west and consolidating it with the existing farmhouse entrance, (b) providing for a dedicated right turn lane on Impala Avenue into the southern portion to ensure that traffic and mobility is not affected for vehicles traveling in an easterly direction (towards Tergniet/Rheebok).

The preferred alternative is being subjected to public participation and changes (if deemed necessary) will be considered either as mitigation to the preferred alternative, or as stand-alone alternatives.

Provide a detailed motivation if no property and site alternatives were considered.

No alternative site was considered as the site is pre-identified for township development, is in proximity to existing amenities and in character with the surrounding land use, as well as being within the urban edge and able to readily connect to municipal services.

The No-Go and Alternative 2 was considered, but Alternative 2 is not feasible because of access restrictions and no upgrade to Impala Avenue would have resulted in unacceptable traffic conditions.

List the positive and negative impacts that the property and site alternatives will have on the environment.

POSITIVE NEGATIVE					
Income generation for the municipality from future rates and taxes	Loss of vacant land that contains limited natural elements.				
Upgrade of Impala Avenue to ensure no negative traffic impacts.	Additional traffic generated by the development.				
Optimising development opportunity within the urban edge.	Change in land use from vacant to developed.				
Utilisation of vacant land in an urban context.	Temporary noise and dust pollution during construction period.				
Temporary employment opportunities during construction (to semi-skilled and unskilled workers mostly).	Temporary risk of increase in crime during construction.				
Permanent employment opportunities during operational phase (to skilled and semi-skilled workers mostly).	Temporary increase in heavy vehicular traffic along Main Road during construction.				
Provision of safety (through development) of an otherwise vacant piece of land with no access control.	Additional pressure on non-renewable services.				
and maximise positive impacts.	impacts, mitigate unavoidable negative impacts				
Provide a description of the preferred activity alte	rnative.				
Residential development. The site is earmarked for urban expansion in terms the local spatial planning provisions in line with opt	of the SDF and will be utilised in accordance with imising the use of vacant land within urban areas.				
Provide a description of any other activity alternation	ives investigated.				
No-Go Alternative: No development. Property remains vacant until such time as a su Municipality will maintain status quo (mowing of pr	uccessful development application is approved. operty) until such time.				
Provide a motivation for the preferred activity alter	rnative.				
 The site is earmarked for urban expansion in The site is a strategic property for the M alienation) that is needed to support munic Bulk services are allocated for development The site is close to existing amenities in town Optimising vacant land within the urban expansion 	unicipality from which they receive funds (for its cipal projects/budgets; nt of the site; n;				
Provide a detailed motivation if no activity alterna	tives exist.				
	owever it is not deemed reasonable or feasible edge. The primary rights cannot be optimised due				

List the positive and negative impacts that the **activity alternatives** will have on the environment.

The prop	posed development will not result in any positive impacts on the natural environment.
1.3.	Design or layout alternatives to avoid negative impacts, mitigate unavoidable negative impacts and maximise positive impacts
Provide	a description of the preferred design or layout alternative .
Alternat	ive 1: (Preferred alternative): As discussed in this BAR.
Alternat road pc	ive 2: (Original alternative): Not deemed feasible due to unsafe access (non-compliant with plicies).
No-Go /	Alternative: Status quo
Provide	a description of any other design or layout alternatives investigated.
The defi	nition of 'alternatives' must be considered, as well as references in NEMA to alternatives:
	"alternative" in relation to a proposed activity, means different means of meeting the general ourpose and requirements of the activity, which may include alternatives to the (a) property on which or location where the activity is proposed, (b) type of activity to be undertaken, (c) design or layout of the activity: (d) technology to be sued in the activity, or € operational aspects of the activity.
•	 Excluding components or elements of a development i.e. by changing design or layout, complies with the definition of an 'alternative'. In the same context, Section 24O of NEMA stipulates that "where appropriate, any feasible and reasonable alternatives andany feasible and reasonable modification or changes to the activity that may minimise impacts on the environment" must be considered. The test is both feasible AND reasonable. When a proposal does not comply with minimum policy requirements, it is not feasible nor reasonable. Lastly, the 'general objective' of Integrated Environmental Management is to"identify, oredict and evaluate actual and potential impacts on the environmentand alternatives and options for mitigationwith a view to minimising negative impacts, maximising benefits and promoting compliance with environmental management principles".
	is not deemed sensitive from an environmental perspective. Alternatively are associated with layout/concept changes and technology alternatives.
alternat in terms Sedgefic owners	ive 3: Is the No-Development (or No-Go) alternative whereby the site remains vacant. This ive is not deemed feasible mainly because the property is earmarked for urban development of the Spatial Development Framework and the site being located within the urban edge of eld, surrounded by existing urban developments. If <i>this</i> development is not authorised, the will undertake another application for development or they'll sell it to another developer who ly for development rights.
specific This dev	E(9) of the Basic Assessment report template (Planning Context and Need & Desirability) ally enquires about how a project/activity will help to optimise vacant land within urban areas. elopment proposal achieves this criteria, as opposed to urban sprawl. It is not reasonable , nor to keep it as a vacant piece of land.
Provide	a motivation for the preferred design or layout alternative .
1 • 1 • 1	The site is not deemed to be sensitive from an ecological/biodiversity perspective, since it is transformed for the most part; The remaining natural vegetation on the property is of Least Concerned conservation value at a site specific level; The site does not contain any watercourses or aquatic habitat; The consulting engineers has confirmed that sufficient bulk services are available; The existing road network can accommodate the proposed development with upgrades to the access on Impala Avenue;

 The site is not deemed sensitive and may be excavated should an excavation permit be issued by HWC;
 All of the on-site protected trees can potentially be protected and more can be planted with landscaping;
• The land use is similar to surrounding land use types and will not deter from the character of the area.
Provide a detailed motivation if no design or layout alternatives exist.

	List the positive and negative impacts that the d	esign alternatives will have on the environment.					
	Alternative 1 (preferred)	No-GO					
	POSITIVE	POSITIVE					
	Upgrade of Impala Avenue with dedicated right turning land into the southern portion.	Not applicable					
Reduced landscape impact by removing the existing overhead 11kVA line along the eastern boundary of the site and replacing it with underground cabling.							
	Alternative 1	No-GO					
	NEGATIVE	NEGATIVE					
NEGATIVE Replacing the overhead 11kVA line with an underground cable may impact on a protected tree within the servitude. Loss of habitat / protected trees 1.4.		Underutilisation of vacant land that could result in investment opportunities, rates & taxes income.					
	Loss of habitat / protected trees	No income or employment opportunities generated from vacant land					
	efficiency) to avoid negative impact maximise positive impacts.	uce resource demand and increase resource use s, mitigate unavoidable negative impacts and					
	Provide a description of the preferred technolog	y alternatives:					
 Solar and/or heat pumps and/or gas geysers (or similar) for heating of water water tanks at each residential house LED lights only Duel flush toilets Low flow shower heads Gas stoves optional, must be recommended for individual homes by Developer 							
	 Solar panels optional, on condition that it does not contribute to glint and glare for pilots (CAA condition of provisional approval) 						
	Provide a description of any other technology al	ternatives investigated.					
	Provide a motivation for the preferred technolog	y alternative.					

The use of solar/heat pumps/gas geysers reduces the demand on (municipal) electricity.

The use of rainwater tanks provides households with water for gardening or other uses that reduces the demand on municipal water supply.

The use of LED lights reduces the demand for municipal electricity.

Use of low flow shower heads and duel flush toilets reduces the pressure on municipal potable water supply.

Use of solar panels on roofs optional provided that it does not contribute to glint and glare effect for pilots from the nearby airfields.

Provide a detailed motivation if no alternatives exist.

|--|

Reduced water demand on municipal supply with rainwater tanks, duel flush toilets and low		NEGATIVE				
		Reduced income generation potential for Municipality when renewable energy devices are implemented.				
Reduced electricity demand on municipal supply with use of alternatives such as solar or heat pumps/gas geysers.		Reduced income generation potential for Municipality when rainwater harvesting replaces municipal water supply.				
	1.5. Operational alternatives to avoid neg	Operational alternatives to avoid negative impacts, mitigate unavoidable negative				

Provide a description of the preferred operational alternative.

Recycle at source to reduce pressure on landfill sites.

Provide a description of any other operational alternatives investigated.

Provide a motivation for the preferred operational alternative.

Recycle at source to reduce pressure on landfill sites.

Provide a detailed motivation if no alternatives exist.

List the positive and negative impacts that the operational alternatives will have on the environment.

POSITIVE		NEGATIVE	
Recycle at source to reduce pressure on landfill sites.		Not applicable.	
1.6. The	The option of not implementing the activity (the 'No-Go' Option).		

Provide an explanation as to why the 'No-Go' Option is not preferred.

If this development proposal is not authorised, the owner will still endeavour to sell the property to another developer, therefore it is assumed that the No-Go alternative is only temporary as development will happen on the site regardless of who/what is developed on the property.

The location of the property in the centre of town on a flat piece of land, with good access to road network and services will result in the property being developed.

Vacant land remains of concern within urban areas as they are typically targeted for land grabs and come with potential criminal operations seeing as there is no access control or security at present.

Vacant land remains of concern for illegal dumping.

1.7.	Provide an explanation as to whether any other alternatives to avoid negative impacts,							
	mitigate unavoidable negative impacts and maximise positive impacts, or detailed							
	motivation if no reasonable or feasible alternatives exist.							

An alternative could be developed by only focussing on the southern portion and leaving the northern portion for now because the southern portion obtained environmental authorisation in 2009 already.

However the norther portion is also within the urban edge and therefore developing the two portions as one development is a reasonable approach.

1.7. Provide a concluding statement indicating the preferred alternative, including the preferred location of the activity.

The site is ideally located for the proposed activity. The following key aspects have been taken into account:

- Site location suitability (in the centre of town, close to amenities)
- Accessibility (ito existing road networks that can be upgraded with minimal impact)
- Services capacity (Municipality must confirmed sufficient services availability)
- Services connections (existing water, electricity and sewer connections available in proximity to the site)
- Low site sensitivity (no watercourses, low botanical/ecological/faunal sensitivity other than individual milkwood trees)
- Vacant land within the urban edge
- Compatibility with the surrounding land use character

2. "NO-GO" AREAS

Explain what "no-go" area(s) have been identified during identification of the alternatives and provide the co-ordinates of the "no-go" area(s).

There are currently no 'No-Go' areas identified for this site.

3. METHODOLOGY TO DETERMINE THE SIGNIFICANCE RATINGS OF THE POTENTIAL ENVIRONMENTAL IMPACTS AND RISKS ASSOCIATED WITH THE ALTERNATIVES.

Describe the methodology to be used in determining and ranking the nature, significance, consequences, extent, duration of the potential environmental impacts and risks associated with the proposed activity or development and alternatives, the degree to which the impact or risk can be reversed and the degree to which the impact and risk may cause irreplaceable loss of resources.

Criteria for Assessment

These criteria are drawn from the EIA Regulations, published by the Department of Environmental Affairs and Tourism (April 1998) in terms of the Environmental Conservation Act No. 73 of 1989.

These criteria include:

• Nature of the impact

This is the appraisal of the type of effect the construction, operation and maintenance of a development would have on the affected environment. This description should include what is to be affected and how.

• Extent of the impact

Describe whether the impact will be: local extending only as far as the development site area; or limited to the site and its immediate surroundings; or will have an impact on the region, or will have an impact on a national scale or across international borders.

• Duration of the impact

The specialist / EAP should indicate whether the lifespan of the impact would be short term (0-5 years), medium term (5-15 years), long term (16-30 years) or permanent.

• Intensity

The specialist / EAP should establish whether the impact is destructive or benign and should be qualified as low, medium or high. The study must attempt to quantify the magnitude of the impacts and outline the rationale used.

• Probability of occurrence

The specialist / EAP should describe the probability of the impact actually occurring and should be described as improbable (low likelihood), probable (distinct possibility), highly probable (most likely) or definite (impact will occur regardless of any prevention measures).

The impacts should also be assessed in terms of the following aspects:

• Legal requirements

The specialist / EAP should identify and list the relevant South African legislation and permit requirements pertaining to the development proposals. He / she should provide reference to the procedures required to obtain permits and describe whether the development proposals contravene the applicable legislation.

• Status of the impact

The specialist / EAP should determine whether the impacts are negative, positive or neutral ("cost – benefit" analysis). The impacts are to be assessed in terms of their effect on the project and the environment. For example, an impact that is positive for the proposed development may be negative for the environment. It is important that this distinction is made in the analysis.

• Accumulative impact

Consideration must be given to the extent of any accumulative impact that may occur due to the proposed development. Such impacts must be evaluated with an assessment of similar developments already in the environment. Such impacts will be either positive or negative, and will be graded as being of negligible, low, medium or high impact.

• Degree of confidence in predictions

The specialist / EAP should state what degree of confidence (low, medium or high) is there in the predictions based on the available information and level of knowledge and expertise.

Based on a synthesis of the information contained in the above-described procedure, specialists were required to assess the potential impacts in terms of the following significance criteria:

No significance: the impacts do not influence the proposed development and/or environment in any way.

Low significance: the impacts will have a minor influence on the proposed development and/or environment. These impacts require some attention to modification of the project design where possible, or alternative mitigation.

Moderate/Medium significance: the impacts will have a moderate influence on the proposed development and/or environment. The impact can be ameliorated by a modification in the project design or implementation of effective mitigation measures.

High significance: the impacts will have a major influence on the proposed development and/or environment and will result in the "no-go" option on the development or portions of the development regardless of any mitigation measures that could be implemented. This level of significance must be well motivated.

4. ASSESSMENT OF SIGNIFICANT IMPACTS AND RISK IDENTIFIED FOR EACH ALTERNATIVE

Note: The following table serves as a guide for summarising each alternative. The table should be repeated for each alternative to ensure a comparative assessment. The EAP may decide to include this section as Appendix J to this BAR.

BOTANICAL / ECOLOGICAL IMPACTS:

Impact	Extent	Duration	Intensity	Probability	Score	Significance
Destruction of individual plants of conservation concern (SOCC)	1	4	3	1.0	8.0	Medium
Destruction of local habitat for species of conservation concern.	1	3	2	0.8	4.8	Low
Loss of ecosystem services	1	1	2	1.0	4.0	Low
Compromising a potential ecological corridor	1	4	2	0.4	2.8	Low

Table 2: Botanical/Ecological impacts of Zandhoogte Estate (Vlok 2019).

IMPACT	Extent	Duration	Intensity	Probability	Significance	
Destruction of SOCC	Low	Low	Low	High	Low	
Destruction of local habitat/fauna/flora	Low	Long-Term	Medium-Low	High	Low	
Loss of ecosystem services	Low	Medium-Low	Low	High	Low	
Compromising ecological corridor	Low	Medium-High	Medium-Low	Medium	Low	
Mitigation recommended: Plant indigenous vegetation and milkwood trees as part of landscaping.						

HERITAGE / ARCHAEOLOGICAL IMPACTS:

NID was submitted by Stefan Coetzee (Perception Planning) in 2019. A detailed impact assessment is not required. HWC approved the proposal.

Should any artefacts be exposed during construction, the ECO must demarcate the area and notify HWC without delay.

SOCIO-ECONOMIC IMPACTS:

The development will result in impacts on the local community and on the economic. Considering that the development optimises the use of vacant land within an urban area, the results will be on immediate neighbouring properties during construction (noise, dust etc), as well as short-term and long-term economic factors such as employment opportunities, income generation, capital investment, rates & taxes etc.

IMPACT	Extent	Duration	Intensity	Probability	Significance
Noise	Low	Temporary	Low	High	Low
Dust	Low	Temporary	Low	High	Low
Theft and crime	Low	Temporary	Low	Low	Low
Traffic congestion	Low	Long-term	Low	High	Low
Employment opportunities	High	Long-term	Medium	High	Medium-High
Income generation	High	Long-term	Medium	High	Medium-High

Mitigation recommended:

- Ensure a minimum of 50% local labour employment (Mossel Bay Area);
- Ensure a minimum of 50% local sourcing of materials and stock (Mossel Bay Area);
- Workers are to remain on-site during work hours with the exception of buying food, getting medical help or vacating the premises as a result of labour related issues/health issues;
- Applicant must implement TIA with regards to upgrade of Impala Avenue to have the dedicated right turn built prior to occupation of any units in the southern portion)
- Adhere to Site Security Plan (refer to EMP)
- Clear site in a phased manner to reduce exposed areas that could result in dust pollution and inconvenience to neighbours;
- Restrict working hours to workdays (7h00 18h00) and Saturdays (8h00 13h00) to limit unnecessary noise impacts;
- Appoint and ECO to monitor compliance with the EA and EMP;
- Applicant to maintain a complaints register that must be presented and discussed during monthly meetings to ensure prompt actions.

SECTION I: FINDINGS, IMPACT MANAGEMENT AND MITIGATION MEASURES

1. Provide a summary of the findings and impact management measures identified by all Specialist and an indication of how these findings and recommendations have influenced the proposed development.

Heritage/Archaeology:

- Any excavation or exposure of artefacts must be reported immediately;
- ECO to demarcate area and notify HWC without delay.

Botany/Fauna/Ecology:

- Search and rescue of reptiles/mammals prior to construction/vegetation removal.
- Apply for Forestry Permits should any trimming/roots be affected on protected trees.
- Demarcate drip-line of all on-site protected trees;
- Landscaping must include species occurring natural in the immediate area.

Traffic:

- Upgrade of Impala Avenue with dedicated right turn lane into the southern portion of the development prior to occupation of any of the units in the southern portion.
- 2. List the impact management measures that were identified by all Specialist that will be included in the EMPr

Heritage/Archaeology:

- Any excavation or exposure of artefacts must be reported immediately;
- ECO to demarcate area and notify HWC without delay.

Botany/Fauna/Ecology:

- Search and rescue of reptiles/mammals prior to construction/vegetation removal.
- Apply for Forestry Permits should any trimming/roots be affected on protected trees.
- Demarcate drip-line of all on-site protected trees;
- Landscaping must include species occurring natural in the immediate area.

Traffic:

- Upgrade of Impala Avenue with dedicated right turn lane into the southern portion of the development prior to occupation of any of the units in the southern portion.
- 3. List the specialist investigations and the impact management measures that will **not** be implemented and provide an explanation as to why these measures will not be implemented.

None identified as yet.

4. Explain how the proposed development will impact the surrounding communities.

There will be mostly temporary impacts associated with the construction phase, namely noise and potentially dust pollution. The following key mitigation measures are submitted as part of the BAR. Refer to the EMP for more details:

- Construction activities must be limited to Mondays Fridays (7h00 18h00) and Saturdays (8h00 – 13h00);
- Work may not take place on Sunday's or public holidays;
- Vegetation clearing must be done in phases to avoid large pieces of land being exposed to wind (which could result in dust pollution);

 Rehabilitation of work areas to take place as soon as possible to minimise dust pollution; Dust suppression measures to be implemented if the ECO deems it necessary; An ECO must be appointed to oversee construction and must keep record of a complaints regarding noise/dust pollution; Upgrade of Impala Avenue must happen prior to occupation of any of the units on th southern portion to avoid traffic delays. 	
5. Explain how the risk of climate change may influence the proposed activity or developme and how has the potential impacts of climate change been considered and addressed.	nt
 Water will become a very scarce resource as periods of drought will be longer. The use rainwater tanks for each residential house is important; Rain fall intervals will become less, but downpours may be more severe. Stormwat management on the site is important to prevent unnecessary erosion and/or flooding. The use of rainwater tanks will assist with reducing flooding as it will help to retain water. 	
6. Explain whether there are any conflicting recommendations between the specialists. If s explain how these have been addressed and resolved.	0,
None.	
7. Explain how the findings and recommendations of the different specialist studies have been integrated to inform the most appropriate mitigation measures that should be implemented to manage the potential impacts of the proposed activity or development.	
The specialists all agree that the site is not deemed sensitive.	
Therefore their recommendations for mitigation/management are limited and easy to incorpora without significant changes to the preferred layout.	te
8. Explain how the mitigation hierarchy has been applied to arrive at the best practical environmental option.	le
1. AVOID IMPACTS	
Impacts cannot be avoided.	
2. MITIGATE IMPACTS	
Landscape with indigenous plants and incorporate endemic plants from the area into the landscaping to recreate natural areas within the development.	ne
Upgrade Impala Avenue with dedicated right turn lane into the southern portion of the development site.	ne
3. MINIMISE IMPACTS	
Limit construction activities to specified days and times.	
Clear the site in a phased manner to minimise dust pollution.	
Only indigenous landscaping permitted in lieu of the loss of on-site natural habitat/vegetation.	
Install water tanks at each dwelling to reduce demand on municipal water supply.	
Install solar heat pumps / solar panels (or similar devices) at each dwelling to reduce demand o municipal electrical supply.	on
Offer the option of using gas at each dwelling to reduce the demand on municipal electrical supp	ly.
Use of solar panels on roofs optional provided that it does not contribute to glint and glare effect f pilots from Mossel Bay / George Airport.	or
4 RECTIEY	

4. KECHFT

None necessary

5. REDUCE

None necessary

6. OFF-SITE

None necessary

SECTION J: GENERAL

1. ENVIRONMENTAL IMPACT STATEMENT

1.1. Provide a summary of the key findings of the	e EIA.	
 1.1. Provide a summary of the key findings of the EIA. The site is not deemed sensitive from a botanical/biodiversity/faunal perspective. The site is not deemed sensitive from a freshwater perspective. The site is not deemed sensitive from a heritage/archaeological perspective. Services are available through municipal supply. Social and economic impacts that will arise from the development is considered mostly positive in the long term and short-term impacts can be managed; Proposal is in line with spatial planning for Tergniet and will result in optimising of vacant land within the urban edge of Tergniet. The results from the public participation process are important and the outcome of the process must incorporate submissions received during the process. 		
1.2. Provide a map that that superimposes the preferred activity and its associated structures and infrastructure on the environmental sensitivities of the preferred site indicating any areas that should be avoided, including buffers. (Attach map to this BAR as Appendix B2)		
There are no on-site sensitive features. Protected milkwood/cheesewood trees are noted within the building line/servitudes and road reserve.		
1.3. Provide a summary of the positive and negative impacts and risks that the proposed activity or development and alternatives will have on the environment and community.		
POSITIVE	NEGATIVE	
Income generation for the municipality from future rates and taxes	Loss of habitat/protected trees.	
Upgrade of the access on Impala Avenue.	Increase in traffic associated with development.	
Increase income through rates & taxes.	Change in land use from vacant to developed.	
Utilisation of vacant land in an urban context.	Temporary noise and dust pollution during construction period.	
Temporary employment opportunities during construction (to semi-skilled and unskilled workers mostly).	Temporary risk of increase in crime during construction.	

Permanent employment opportunities during operational phase (to skilled and semi-skilled workers mostly).	Temporary increase in heavy vehicular traffic along Main Road during construction.
Provision of safety (through development) of an otherwise vacant piece of land with no access control.	Additional pressure on non-renewable services.

2. RECOMMENDATION OF THE ENVIRONMENTAL ASSESSMENT PRACTITIONER ("EAP")

2.1.	Provide Impact management outcomes (based on the assessment and where applicable, specialist assessments) for the proposed activity or development for inclusion in the EMPr	
•	Planting of any protected trees must be in areas where they will not necessarily have to be trimmed/removed in future.	
•		
•	Apply for Forestry Permits in the event that any trimming/roots may be required during construction.	
•	Each group housing unit must be fitted with a rainwater tanks. Each group housing unit must be fitted with solar or heat pumps/solar panels (optional) to reduce demand on electrical supply.	
•		
•	Restrict working times and hours to minimise noise/dust pollution.	
•	Source minimum 50% construction materials locally.	
•	Upgrade of Impala Avenue with dedicated right turning lane into the southern portion of the development must be completed prior to occupation of any of the units in the southern portion.	
•	Energy saving measures must be implemented. Resource conservation measures must be implemented.	
2.2.	Provide a description of any aspects that were conditional to the findings of the assessment either by the EAP or specialist that must be included as conditions of the authorisation.	
None identified yet.		
2.3.	Provide a reasoned opinion as to whether the proposed activity or development should or should not be authorised, and if the opinion is that it should be authorised, any conditions that should be included in the authorisation.	
The o	development as proposed may be considered for environmental authorisation.	
The f	ollowing conditions must be considered:	
•	Development may not proceed until such time as all approvals are obtained. Local employment must be a priority to ensure maximum social benefit to the wider community	
•	An ECO must be appointed prior to construction to oversee site preparation, vegetation removal and construction	
•	DAFF permits must be obtained prior to removal / trimming / cutting of any protected trees on the property.	

- Upgrade of Impala Avenue with a dedicated right turning lane must be completed prior to occupation of any unit in the southern portion.
- 2.4. Provide a description of any assumptions, uncertainties and gaps in knowledge that relate to the assessment and mitigation measures proposed.
- 2.5. The period for which the EA is required, the date the activity will be concluded and when the post construction monitoring requirements should be finalised.

10-year validity period for the EA. This timeframe has been confirmed with the Applicant.

Date when activity will be concluded is unknown at this stage, but the Applicant anticipates commencing in 2021 and finishing in 2028.

Post-construction monitoring must be finalised within 6 months of each of the two phases being completed.

The EA, if granted, must for the period during which it is valid, be audited and such audits must be submitted to the competent authority.

Post-completion reports must be compiled by the ECO after completion of every phase of the development. The report(s) must be submitted within 30-days from when a phase has been completed.

An **independent external audit** must be compiled post-completion of the project by an independent Environmental Auditor.

3. WATER

Since the Western Cape is a water scarce area explain what measures will be implemented to avoid the use of potable water during the development and operational phase and what measures will be implemented to reduce your water demand, save water and measures to reuse or recycle water.

- Each residential dwelling must be fitted with rainwater tanks for operational phase to supplement municipal potable water for external use and/or household use.
- Potable water may not be used during construction.

4. WASTE

Explain what measures have been taken to reduce, reuse or recycle waste.

- The contractor must provide recycle bins on the property during construction and must ensure that staff is aware of what products can be recycled/reused.
- The managing agent must implement at-source recycling.

5. ENERGY EFFICIENCY

8.1. Explain what design measures have been taken to ensure that the development proposal will be energy efficient.

- Only LED lights **must be used** within the development.
- Heat and/or solar pumps and/or gas geysers (or similar) **must be used** throughout the development.
- Use of gas for stoves is **optional** and must be recommended by the developer for individual houses.

• Use of **solar panels** on roofs **optional** provided that it does not contribute to glint and glare effect for pilots from nearby airfields.

SECTION K: DECLARATIONS

1. DECLARATION OF THE APPLICANT:

To be supplied for Final Basic Assessment report.

2. DECLARATION OF THE ENVIRONMENTAL ASSESSMENT PRACTITIONER ("EAP")

I Ms Louise-Mari van Zyl, EAPASA Registration number 2019/1444 as the appointed EAP hereby declare/affirm the correctness of the:

- Information provided in this BAR and any other documents/reports submitted in support of this BAR;
- The inclusion of comments and inputs from stakeholders and I&APs;
- The inclusion of inputs and recommendations from the specialist reports where relevant; and
- 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 that:
- In terms of the general requirement to be independent:
 - other than fair remuneration for work performed in terms of this application, have no business, financial, personal or other interest in the activity or application and that there are no circumstances that may compromise my objectivity; or
 - am not independent, but another EAP that meets the general requirements set out in Regulation 13 of NEMA EIA Regulations has been appointed to review my work (Note: a declaration by the review EAP must be submitted);
- In terms of the remainder of the general requirements for an EAP, am fully aware of and meet all of the requirements and that failure to comply with any the requirements may result in disqualification;
- I have disclosed, to the Applicant, the specialist (if any), the Competent Authority and registered interested and affected parties, all material information that have or may have the potential to influence the decision of the Competent Authority or the objectivity of any report, plan or document prepared or to be prepared as part of this application;
- I have ensured that information containing all relevant facts in respect of the application was distributed or was made available to registered interested and affected parties and that participation will be facilitated in such a manner that all interested and affected parties were provided with a reasonable opportunity to participate and to provide comments;
- I have ensured that the comments of all interested and affected parties were considered, recorded, responded to and submitted to the Competent Authority in respect of this application;
- I have ensured the inclusion of inputs and recommendations from the specialist reports in respect of the application, where relevant;
- I have kept a register of all interested and affected parties that participated in the public participation process; and
- I am aware that a false declaration is an offence in terms of Regulation 48 of the NEMA EIA Regulations;

Signature of the EAP:

2020/12/11

Date:

Cape Environmental Assessment Practitioners (Cape EAPrac)

Name of company (if applicable):

3. DECLARATION OF THE INDEPENDENT SPECIALISTS

To be supplied with Final Basic Assessment Report