



**EIA REFERENCE:** 16/3/3/1/E4/5/1028/19  
**NEAS REFERENCE:** WCP/EIA/0000592/2019  
**ENQUIRIES:** Lorretta Osborne  
**DATE OF ISSUE:** 2019 -11- 04

The Trustees  
Wijnberg Farm Trust  
3 Sunnybrae Road  
**RONDEBOSCH**  
7700

**Attention: Mr A Wijnberg**

Tel: (021) 418 3830  
E-mail: [awijnberg@prdw.com](mailto:awijnberg@prdw.com)

Dear Sir

**APPLICATION FOR ENVIRONMENTAL AUTHORISATION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, 1998 (ACT 107 OF 1998) AND THE ENVIRONMENTAL IMPACT ASSESSMENT REGULATIONS, 2014, (AS AMENDED): THE EXPANSION OF DAM 2 AND ASSOCIATED INFRASTRUCTURE ON REMAINING EXTENT OF FARM HUGOSDALE NO. 141, GREYTON**

1. With reference to the above application, the Department hereby notifies you of its decision to **grant** Environmental Authorisation, attached herewith, together with the reasons for the decision.
2. In terms of Regulation 4 of the Environmental Impact Assessment Regulations, 2014, (as amended), you are instructed to ensure, within 14 days of the date of the Environmental Authorisation, that all registered Interested and Affected Parties ("I&APs") are provided with access to and reasons for the decision, and that all registered I&APs are notified of their right to appeal.
3. Your attention is drawn to Chapter 2 of the National Appeal Regulations, 2014 (as amended), which prescribes the appeal procedure to be followed. This procedure is summarized in the attached Environmental Authorisation.

Yours faithfully

**DIRECTOR: DEVELOPMENT MANAGEMENT (REGION 1)**  
**DEPARTMENT OF ENVIRONMENTAL AFFAIRS AND DEVELOPMENT PLANNING**

CC: (1) Mr M Johnson (CES Environmental and Social Advisory Services)  
(2) Mr J Jansen van Rensburg (Theewaterskloof Municipality)  
(3) Ms P Ntanzi (BGCMA)  
(4) Ms C Rampartab (CapeNature)

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## ENVIRONMENTAL AUTHORISATION

**APPLICATION FOR ENVIRONMENTAL AUTHORISATION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, 1998 (ACT 107 OF 1998) AND THE ENVIRONMENTAL IMPACT ASSESSMENT REGULATIONS, 2014 (AS AMENDED): THE EXPANSION OF DAM 2 AND ASSOCIATED INFRASTRUCTURE ON REMAINING EXTENT OF FARM HUGOSDALE NO. 141, GREYTON**

With reference to your application for the abovementioned, find below the outcome with respect to this application.

### DECISION

By virtue of the powers conferred on it by the National Environmental Management Act, 1998 (Act No. 107 of 1998) ("NEMA") and the Environmental Impact Assessment ("EIA") Regulations, 2014 (as amended), the Competent Authority herewith **grants Environmental Authorisation** to the applicant to undertake the listed activities specified in Section B below with respect to Dam 2 Alternative, described in the Basic Assessment Report ("BAR"), dated July 2019.

The applicant for this Environmental Authorisation is required to comply with the conditions set out in Section E below.

#### A. DETAILS OF THE APPLICANT FOR THIS ENVIRONMENTAL AUTHORISATION

The Trustees  
Wijnberg Farm Trust  
% Mr A Wijnberg  
3 Sunnybrae Road  
**RONDEBOSCH**  
7700

Tel: (021) 418 3830  
E-mail: [awijnberg@prdw.com](mailto:awijnberg@prdw.com)

The abovementioned applicant is the holder of this Environmental Authorisation and is hereinafter referred to as "**the holder**".

## B. LIST OF ACTIVITIES AUTHORISED

Listed Activities	Activities/Project Description
<p>Listing Notice 1 of 2014- <b>Activity Number: 19</b></p> <p><i>The infilling or depositing of any material of more than 10 cubic metres into, or the dredging, excavation, removal or moving of soil, sand, shells, shell grit, pebbles or rock of more than 10 cubic metres from a watercourse -</i></p> <p><i>but excluding where such infilling, depositing, dredging, excavation, removal or moving -</i></p> <ul style="list-style-type: none"> <li><i>(a) will occur behind a development setback;</i></li> <li><i>(b) is for maintenance purposes undertaken in accordance with a maintenance management plan;</i></li> <li><i>(c) falls within the ambit of activities 21 in this Notice, in which case that activities applies,</i></li> <li><i>(d) occurs within existing ports or harbours that will not increase the development footprint of the port or harbour; or</i></li> <li><i>(e) where such development is related to the development of a port or harbour, in which case activities 26 in Listing Notice 2 of 2014 applies.</i></li> </ul>	<p>Infilling or depositing and excavation of more than 10 cubic metres of material will take place within the river.</p>
<p>Listing Notice 1 of 2014- <b>Activity Number: 27</b></p> <p><i>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></p> <ul style="list-style-type: none"> <li><i>(i) the undertaking of a linear activity; or</i></li> <li><i>(ii) maintenance purposes undertaken in accordance with a maintenance management plan.</i></li> </ul>	<p>The expansion of the dam will result in the clearance of more than 1 hectare of indigenous vegetation.</p>
<p>Listing Notice 1 of 2014- <b>Activity Number: 48</b></p> <p><i>The expansion of-</i></p> <ul style="list-style-type: none"> <li><i>(i) infrastructure of structures where the physical footprint is expanded by 100 square metres or more; or</i></li> <li><i>(ii) <b>dams or weirs, where the dam or weir, including infrastructure and water surface area, is expanded by 100</b></i></li> </ul>	<p>The dam footprint will be expanded by more than 100 square metres within a watercourse.</p>

<p><b>square metres or more;</b></p> <p>where such expansion occurs-</p> <p>(a) <b>within a watercourse;</b></p> <p>(b) in front of a development setback; or</p> <p>(c) if no development setback exists, within 32 metres of a watercourse, measured from the edge of a watercourse;</p> <p>excluding-</p> <p>(aa) the expansion of infrastructure or structures within existing ports or harbours that will not increase the development footprint of the port or harbor;</p> <p>(bb) where such expansion activities are related to the development of a port or harbor, in which case activity 26 in Listing Notice 2 of 2014 applies;</p> <p>(cc) activities listed in activity 14 in Listing Notice 2 of 2014 or activity 14 in Listing Notice 3 of 2014, in which case that activity applies;</p> <p>(dd) where such expansion occurs within an urban area; or</p> <p>(ee) where such expansion occurs within existing roads, road reserves or railway line reserves.</p>	
<p>Listing Notice 1 of 2014-</p> <p><b>Activity Number: 66</b></p> <p>The expansion of a dam where-</p> <p>(i) <b>the highest part of the dam wall, as measured from the outside toe of the wall to the highest part of the wall, was originally 5 metres or higher and where the height of the wall is increased by 2.5 metres or more;</b> or</p> <p>(ii) where the high-water mark of the dam will be increased with 10 hectares or more.</p>	<p>The dam wall will be raised by 17m.</p>
<p>Listing Notice 3 of 2014 –</p> <p><b>Activity Number: 12</b></p> <p>The clearance of an area of 300 square metres or more of indigenous vegetation except where such clearance of indigenous vegetation is required for maintenance purposes undertaken in accordance with a maintenance management plan.</p> <p><b>Western Cape</b></p>	<p>The development will require the clearance of more than 300 square metres of critically endangered and endangered indigenous vegetation.</p>

<ul style="list-style-type: none"> <li>i. <b>Within any critically endangered or endangered ecosystem listed in terms of section 52 of the NEMBA or prior to the publication of such a list, within an area that has been identified as critically endangered in the National Spatial Biodiversity Assessment 2004;</b></li> <li>ii. <i>Within critical biodiversity areas identified in bioregional plans;</i></li> <li>iii. <i>Within the littoral active zone or 100 metres inland from high water mark of the sea or an estuarine functional zone, whichever distance is the greater, excluding where such removal will occur behind the development setback line on erven in urban areas;</i></li> <li>iv. <i>On land, where, at the time of the coming into effect of this Notice or thereafter such land was zoned open space, conservation or had an equivalent zoning; or</i></li> <li>v. <i>On land designated for protection or conservation purposes in an Environmental Management Framework adopted in the prescribed manner, or a Spatial Development Framework adopted by the MEC or Minister.</i></li> </ul>	
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The abovementioned list is hereinafter referred to as "**the listed activities**".

The holder is herein authorised to undertake the following alternative that includes the listed activities as it relates to the development:

The proposal entails the expansion of an in-stream storage dam with a storage capacity of 56 965 cubic metres to 500 000 cubic metres on Remaining Extent of Farm Hugosdale No. 141, Greyton. The dam wall will be 22m in height with a surface area increase from 5500 square metres to 65 000 square metres. A PVC pipeline of approximately 1844m in length with a diameter of 200mm will be constructed to feed water from the dam to the orchards and the existing agricultural fields on the farm. The pipeline route will follow an existing furrow, which will run adjacent to an existing farm road. The total footprint of the development will be approximately 7,2ha in extent. Access to the site will be gained via existing farm roads.

### C. SITE DESCRIPTION AND LOCATION

The listed activities will be undertaken on Remaining Extent of Farm Hugosdale No. 141, Greyton.

The SG21 digit code is: C0130000000014100000,

Co-ordinates:                      Latitude: 34° 4' 4.50" South  
Longitude: 19° 40' 22.49" East,

Pipeline: Co-ordinates:

	Latitude (S):			Longitude (E):		
Starting point	34°	04'	48.17"	19°	39'	40.47"
Middle point	34°	04'	34.85"	19°	40'	10.64"

End point	34°	04'	10.25"	19°	40'	22.93"
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Refer to Annexure 1: Locality Map and Annexure 2: Site Plan.

The above is hereinafter referred to as "**the site**".

#### **D. DETAILS OF THE ENVIRONMENTAL ASSESSMENT PRACTITIONER**

CES Environmental and Social Advisory Services  
 % Mr Michael Johnson  
 Block C, The Estuaries, Oxbow Crescent  
**CENTURY CITY**  
 7441

Tel.: (021) 045 0900

E-mail: [m.johnson@cesnet.co.za](mailto:m.johnson@cesnet.co.za)

#### **E. CONDITIONS OF AUTHORISATION**

##### **Scope of authorisation**

1. The holder is authorised to undertake the listed activities specified in Section B above in accordance with, and restricted to, Dam 2 Alternative, described in the BAR dated July 2019 on the site as described in Section C above.
2. The Environmental Authorisation is valid for a period of **five years** from the date of issue within which commencement must occur.
3. The development must be concluded within **ten years** from the date of commencement of the listed activities.
4. The holder shall be responsible for ensuring compliance with the conditions by any person acting on his/her behalf, including an agent, sub-contractor, employee or any person rendering a service to the holder.
5. Any changes to, or deviations from the scope of the alternative described in Section B above must be accepted or approved, in writing, by the Competent Authority before such changes or deviations may be implemented. In assessing whether to grant such acceptance/approval or not, the Competent Authority may request information, in order to evaluate the significance and impacts of such changes or deviations, and it may be necessary for the holder to apply for further authorisation in terms of the applicable legislation.

##### **Written notice to the Competent Authority**

6. Seven calendar days' notice, in writing, must be given to the Competent Authority before commencement of clearing and construction activities. The notice must:

6.1 make clear reference to the site details and EIA Reference number given above; and

6.2 also include proof of compliance with the following conditions described herein:

Conditions: 7, 8, 11, 16 and 17.

### **Notification and administration of appeal**

7. The holder must in writing, within 14 (fourteen) calendar days of the date of this decision–
  - 7.1 notify all-registered Interested and Affected Parties ("I&APs") of –
    - 7.1.1 the outcome of the application;
    - 7.1.2 the reasons for the decision as included in Annexure 3;
    - 7.1.3 the date of the decision; and
    - 7.1.4 the date when the decision was issued.
  - 7.2 draw the attention of all registered I&APs to the fact that an appeal may be lodged against the decision in terms of the National Appeals Regulations, 2014 (as amended) detailed in Section G below;
  - 7.3 draw the attention of all registered I&APs to the manner in which they may access the decision; and
  - 7.4 provide the registered I&APs with:
    - 7.4.1 the name of the holder (entity) of this Environmental Authorisation;
    - 7.4.2 name of the responsible person for this Environmental Authorisation;
    - 7.4.3 postal address of the holder;
    - 7.4.4 telephonic and fax details of the holder;
    - 7.4.5 e-mail address, if any, of the holder; and
    - 7.4.6 contact details (postal and/or physical address, contact number, facsimile and e-mail address) of the decision-maker and all registered I&APs in the event that an appeal is lodged in terms of the 2014 National Appeals Regulations (as amended).
8. The listed activities, including site preparation, must not commence within 20 (twenty) calendar days from the date of issue of this Environmental Authorisation. In the event that an appeal is lodged with the Appeal Authority, the effect of this Environmental Authorisation is suspended until the appeal is decided i.e. the listed activities, including site preparation, must not commence until the appeal is decided.

### **Management of activities**

9. The draft Environmental Management Programme ("EMPr") dated March 2019 submitted as part of the application for Environmental Authorisation is hereby approved and must be implemented.
10. The EMPr must be included in all contract documentation for all phases of implementation.

## **Monitoring**

11. The holder must appoint a suitably experienced environmental control officer ("ECO"), or site agent where appropriate, before commencement of any clearing or construction activities to ensure compliance with the EMPr and the conditions contained herein.
12. A copy of the Environmental Authorisation, EMPr, audit reports and compliance monitoring reports must be kept at the site of the authorised activities, and must be made available to anyone on request, including on a publicly accessible website.
13. Access to the site referred to in Section C must be granted, and the environmental reports mentioned above must be produced, to any authorised official representing the Competent Authority who requests to see it for the purposes of assessing and/or monitoring compliance with the conditions contained herein.

## **Auditing**

14. In terms of Regulation 34 of the NEMA EIA Regulations, 2014 (as amended), the holder must conduct environmental audits to determine compliance with the conditions of the Environmental Authorisation, the EMPr and submit Environmental Audit Reports to the Competent Authority. The Environmental Audit Report must be prepared by an independent person and must contain all the information required in Appendix 7 of the NEMA EIA Regulations, 2014 (as amended).

The holder must undertake an environmental audit quarterly for the duration of the construction phase and submit Environmental Audit Reports to the Competent Authority once every six months during the construction phase. The final Environmental Audit Report must be submitted to the Competent Authority six months after operation commenced.

The holder must, within 7 days of the submission of each of the above-mentioned reports to the Competent Authority, notify all potential and registered I&APs of the submission and make the report available to anyone on request and on a publicly accessible website (if applicable).

## **Specific Conditions**

15. Should any heritage remains be exposed during excavations or any other actions on the site, these must immediately be reported to the Provincial Heritage Resources Authority of the Western Cape, Heritage Western Cape. Heritage remains uncovered or disturbed during earthworks must not be further disturbed until the necessary approval has been obtained from Heritage Western Cape.

Heritage remains include: meteorites, archaeological and/or palaeontological remains (including fossil shells and trace fossils); coins; indigenous and/or colonial ceramics; any articles of value or antiquity; marine shell heaps; stone artifacts and bone remains; structures and other built features with heritage significance; rock art and rock engravings; and/or graves or unmarked human burials including grave goods and/or associated burial material.



A qualified archaeologist and/or palaeontologist must be contracted where necessary (at the expense of the holder) to remove any heritage remains. Heritage remains can only be disturbed by a suitably qualified heritage specialist working under a directive from the relevant heritage resources authority.

16. The development areas must be clearly demarcated prior to commencement of clearing and construction activities. All areas outside the development footprint must be treated as no-go areas.
17. A Search and Rescue operation of indigenous bulbs and succulents, as well as the Species of Conservation Concern that occur on the site must be relocated by a suitably qualified and experienced botanical specialist to areas already under rehabilitation or to the remainder of the property. This relocation must be undertaken prior to commencement of clearing activities and confirmation thereof submitted to CapeNature.
18. An aquatic monitoring programme must be undertaken during and after construction and an annual monitoring report must be submitted to CapeNature.

## **F. GENERAL MATTERS**

1. Notwithstanding this Environmental Authorisation, the holder must comply with any other statutory requirements that may be applicable when undertaking the listed activities.
2. Non-compliance with a condition of this Environmental Authorisation or EMPr may render the holder liable to criminal prosecution.
3. If the holder does not commence with the listed activities within the period referred to in Condition 2, this Environmental Authorisation shall lapse for that activities, and a new application for Environmental Authorisation must be submitted to the Competent Authority. If the holder wishes to extend the validity period of the Environmental Authorisation, an application for amendment in this regard must be made to the Competent Authority prior to the expiry of the environmental authorisation.
4. The holder must submit an application for amendment of the Environmental Authorisation to the Competent Authority where any detail with respect to the Environmental Authorisation must be amended, added, substituted, corrected, removed or updated. If a new holder is proposed, an application for Amendment in terms of Part 1 of the EIA Regulations, 2014 (as amended) must be submitted.

Please note that an amendment is not required if there is a change in the contact details of the holder. In this case, the Competent Authority must only be notified of such changes.

5. The manner and frequency for updating the EMPr is as follows:  
Amendments to the EMPr must be done in accordance with Regulations 35 to 37 of the EIA Regulations, 2014 (as amended) or any relevant legislation that may be applicable at the time.

## G. APPEALS

Appeals must comply with the provisions contained in the National Appeal Regulations 2014 (as amended).

1. An appellant (if the holder of the decision) must, within 20 (twenty) calendar days from the date on which notification of the decision was sent to the holder by the Competent Authority –
  - 1.1 Submit an appeal in accordance with Regulation 4 of the National Appeal Regulations 2014 (as amended) to the Appeal Administrator; and
  - 1.2 Submit a copy of the appeal to any registered I&APs, any Organ of State with interest in the matter and the decision-maker i.e. the Competent Authority that issued the decision.
2. An appellant (if NOT the holder of the decision) must, within 20 (twenty) calendar days from the date on which the holder of the decision sent notification of the decision to the registered I&APs–
  - 2.1 Submit an appeal in accordance with Regulation 4 of the National Appeal Regulations 2014 (as amended) to the Appeal Administrator; and
  - 2.2 Submit a copy of the appeal to the holder of the decision, any registered I&AP, any Organs of State with interest in the matter and the decision-maker i.e. the Competent Authority that issued the decision.
3. The holder of the decision (if not the appellant), the decision-maker that issued the decision, the registered I&AP and the Organs of State must submit their responding statements, if any, to the appeal authority and the appellant within 20 (twenty) calendar days from the date of receipt of the appeal submission.
4. The appeal and the responding statement must be submitted to the address listed below:

By post:                   Western Cape Ministry of Local Government, Environmental Affairs and  
Development Planning  
Private Bag X9186  
CAPE TOWN  
8000

By facsimile:           (021) 483 4174; or

By hand:                 Attention: Mr Marius Venter (Tel: 021 483 2659)  
Room 809  
8<sup>th</sup> Floor Utilitas Building, 1 Dorp Street, Cape Town, 8001

**Note:** For purposes of electronic database management, you are also requested to submit electronic copies (Microsoft Word format) of the appeal, responding statement and any supporting documents to the Appeal Authority to the address listed above and/ or via e-mail to [DEADP.Appeals@westerncape.gov.za](mailto:DEADP.Appeals@westerncape.gov.za)

- A prescribed appeal form as well as assistance regarding the appeal processes is obtainable from Appeal Authority at: Tel. (021) 483 2659, E-mail DEADP.Appeals@westerncape.gov.za or URL <http://www.westerncape.gov.za/eadp>.

## H. DISCLAIMER

The Western Cape Government, the Local Authority, committees or any other public authority or organisation appointed in terms of the conditions of this Environmental Authorisation shall not be responsible for any damages or losses suffered by the holder, developer or his/her successor in any instance where construction or operation subsequent to construction is temporarily or permanently stopped for reasons of non-compliance with the conditions as set out herein or any other subsequent document or legal action emanating from this decision.

Your interest in the future of our environment is appreciated.

Yours faithfully



**MR ZAAHIR TOEFY**

**DIRECTOR: DEVELOPMENT MANAGEMENT (REGION 1)**

DATE OF DECISION: 04/11/2019

CC: (1) Mr M Johnson (CES Environmental and Social Advisory Services)  
(2) Mr J Jansen van Rensburg (Theewaterskloof Municipality)  
(3) Ms P Ntanzi (BGCMA)  
(4) Ms C Rampartab (CapeNature)

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## ANNEXURE 2: SITE PLAN

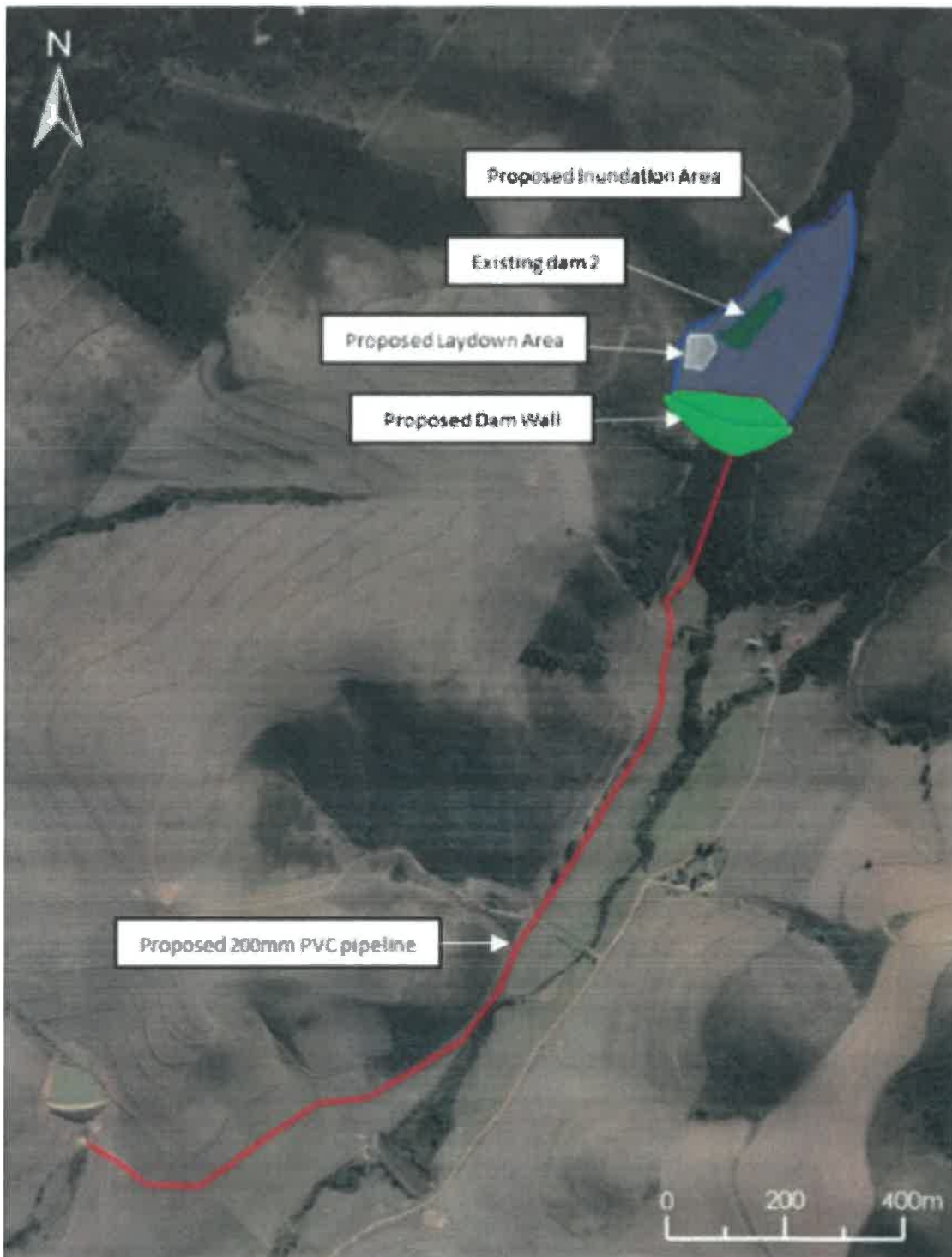


Figure 2: Site Plan of the dam expansion area on Remaining Extent of Farm Hugosdale No. 141, Greyton.

### **ANNEXURE 3: REASONS FOR THE DECISION**

In reaching its decision, the Competent Authority considered, amongst others, the following:

- a) The information contained in the Application Form submitted on 18 April 2019, the BAR dated July 2019, the EMPr submitted together with the BAR on 17 July 2019, and the additional information received between 17 October 2019 and 1 November 2019;
- b) Relevant information contained in the Departmental information base, including the Guidelines on Public Participation and Alternatives (dated March 2013);
- c) The objectives and requirements of relevant legislation, policies and guidelines, including Section 2 of the National Environmental Management Act, 1998 (Act No. 107 of 1998);
- d) The comments received from I&APs and responses to these, included in the BAR dated July 2019 and the additional information received between 17 October 2019 and 1 November 2019; and
- e) The balancing of negative and positive impacts and proposed mitigation measures;

No site visits were conducted. The competent authority had sufficient information before it to make an informed decision without conducting a site visit.

All information presented to the Competent Authority was taken into account during the consideration of the application for Environmental Authorisation. A summary of the issues that were considered to be the most significant for the decision is set out below.

#### **1. Public Participation**

The public participation process included:

- Placing site notices on 31 July 2018;
- Giving written notice and Background information documents to the owners and occupiers of land adjacent to the site where the listed activities are to be undertaken, the municipality and ward councillor, and the various Organs of State having jurisdiction in respect of any aspect of the listed activities on 8 August 2018;
- Placing a newspaper advertisement in the "Theewaterskloof and Cape Agulhas" newspaper on 14 May 2019; and
- Circulating the in-process draft Basic Assessment Report to I&APs for public review on 14 May 2019.

All the concerns raised by I&APs were responded to, and adequately addressed during the public participation process. Specific management and mitigation measures have been considered in this Environmental Authorisation and in the EMPr, in order to adequately address the concerns raised.

The Competent Authority notes the Environmental Assessment Practitioner's responses to the issues raised during the public participation process and has included appropriate conditions in this Environmental Authorisation and in the EMPr.

## 2. Alternatives

The following alternatives were considered:

### Dam 2 Alternative (Herewith authorised):

This alternative entails the expansion of an in-stream storage dam with a storage capacity of 56 965 cubic metres to 500 000 cubic metres on Remaining Extent of Farm Hugosdale No. 141, Greyton. The dam wall will be 22m in height with a surface area increase from 5500 square metres to 65 000 square metres. A PVC pipeline of approximately 1844m in length with a diameter of 200mm will be constructed to feed water from the dam to the orchards and the existing agricultural fields on the farm. The pipeline route will follow an existing furrow, which will run adjacent to an existing farm road. The total footprint of the development will be approximately 7,2ha in extent. Access to the site will be gained via existing farm roads.

This alternative is preferred since it will reduce electricity cost by irrigating under gravity due to the higher elevation compared to Dam 5 Alternative. It has a better wall ratio compared to the Intermediate Dam Alternative. This alternative would result in limited disturbance of sensitive areas.

### Dam 5 Alternative:

This alternative is similar to Dam 2 Alternative, except that it is situated at a lower elevation on a secondary river and the majority of the site is agricultural land.

From a financial perspective, this alternative is not preferred, due to the lower elevation, additional pumping and electrical services will be required, which will be costly.

### Intermediate Dam Alternative:

This alternative is similar to Dam 2 Alternative, except that it requires a dam wall of 27m high.

This alternative is not preferred since it requires a higher dam wall compared to the other dam alternatives, which will be costly.

### East-Valley Dam Alternative:

This alternative is similar to Dam 2 Alternative, except that it is the smallest catchment area.

This alternative is not preferred due to the low run-off volume from the catchment area, as well as the disturbance of Critical Biodiversity Areas.

### "No-Go" Alternative

The 'no-go' alternative was considered. However, it is not preferred since it will not provide an opportunity to increase the economic viability of the farm.

## 3. Impact Assessment and Mitigation measures

### 3.1 Activities need and desirability

The proposed expansion of the dam is primarily to increase the efficiency of water storage on the abovementioned farm and to ensure that there will be sufficient supply and storage of irrigation water for the cultivation of orchards on previously cultivated land. The proposed development will not only promote water efficiency, but also enhance the economic viability of the farm. The



expanded dam will be used to store existing water rights. Furthermore, the development is consistent with the surrounding land use, with storage dams providing the requisite water supply to support the farming activities.

### 3.2 Biodiversity and Biophysical Impacts

The dam site and the pipeline route falls within an area that is covered by Greyton Shale Fynbos and Central Rûens Shale Renosterveld, ecosystems classified as endangered and critically endangered in terms of Section 52 of the National Environmental Management Biodiversity Act, 2004 (Act No. 10 of 2004) ("NEMBA") and Alien Woodland. The site has however been disturbed by alien plant species such as Black Wattle, which is located along the banks of the stream. The expansion of the dam will impact on a Critical Biodiversity Area 1, however the Critical Biodiversity Area 1 within which the site falls is considered to be highly degraded due to invasive alien species and Pine trees. The expansion of the dam will also impact on an Ecological Support Area 2. Five Species of Conservation Concern were recorded on the site and will be relocated through a Search and Rescue operation (included in Section E, Condition 17) prior to the commencement of construction activities. Based on the findings of the Ecological Impact Assessment, dated July 2018, compiled by EOH Coastal and Environmental Services, the overall impact on the terrestrial fauna and flora will be of moderate significance. An Alien Vegetative Removal Plan included as Appendix K2, the implementation of the conditions of this Environmental Authorisation and the mitigation measures in the EMPr (accepted in Section E, Condition 9) will be implemented to mitigate the potential impacts on vegetation that may result from the proposed development.

According to the Aquatic Impact Assessment, dated September 2018, compiled EOH Coastal and Environmental Services, the drainage features and streams on the property are considered aquatic corridors and Ecological Support Areas. The Present Ecological State (PES) of the mountain stream on the site varies. Up-stream of the dam, it is in an unmodified natural state, the section nearest to the dam, is in a largely modified state and the section below the dam is in a largely natural state with a few modifications. No additional aquatic features were identified along the proposed pipeline route, which will not be constructed within 32m of any watercourses. No fish species were observed at the site. The potential impacts on aquatic features that may result from the proposed development will be mitigated by the implementation of the conditions of this Environmental Authorisation and the mitigation measures in the EMPr. In addition, a Water Use Licence Application ("WULA") in terms of the National Water Act, 1998 (Act 38 of 1998) has been submitted to the Breede-Gouritz Catchment Management Agency, for the expansion of Dam 2 and its associated infrastructure, who will further investigate the watercourse related impacts.

The development will result in both negative and positive impacts.

#### **Negative Impacts:**

- The development will result in the loss of natural vegetation and impact on the freshwater resource during construction and operation, which will be effectively mitigated to a low negative significance.
- It was determined that the potential negative impacts during the construction phase of the development, such as noise and visual impacts, will be of low significance after mitigation.

#### **Positive impacts:**

- The proposed development will increase the efficiency of water storage on the farm in order to utilise its full potential.



- The development will ensure the economic viability of the farm and provide additional employment opportunities.

#### **4. National Environmental Management Act Principles**

The National Environmental Management Principles (set out in Section 2 of the NEMA, which apply to the actions of all organs of state, serve as guidelines by reference to which any organ of state must exercise any function when taking any decision, and which must guide the interpretation, administration and implementation of any other law concerned with the protection or management of the environment), *inter alia*, provides for:

- the effects of decisions on all aspects of the environment to be taken into account;
- the consideration, assessment and evaluation of the social, economic and environmental impacts of activities (disadvantages and benefits), and for decisions to be appropriate in the light of such consideration and assessment;
- the co-ordination and harmonisation of policies, legislation and actions relating to the environment;
- the resolving of actual or potential conflicts of interest between organs of state through conflict resolution procedures; and
- the selection of the best practicable environmental option.

#### **5. Conclusion**

In view of the above, the NEMA principles, compliance with the conditions stipulated in this Environmental Authorisation, compliance with the EMPr, the Competent Authority is satisfied that the proposed listed activities will not conflict with the general objectives of integrated environmental management stipulated in Chapter 5 of the National Environmental Management Act, 1998 (Act No. 107 of 1998) and that any potentially detrimental environmental impacts resulting from the listed activities can be mitigated to acceptable levels.

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