

CTS HERITAGE

## EXECUTIVE SUMMARY

### 1. Site Name

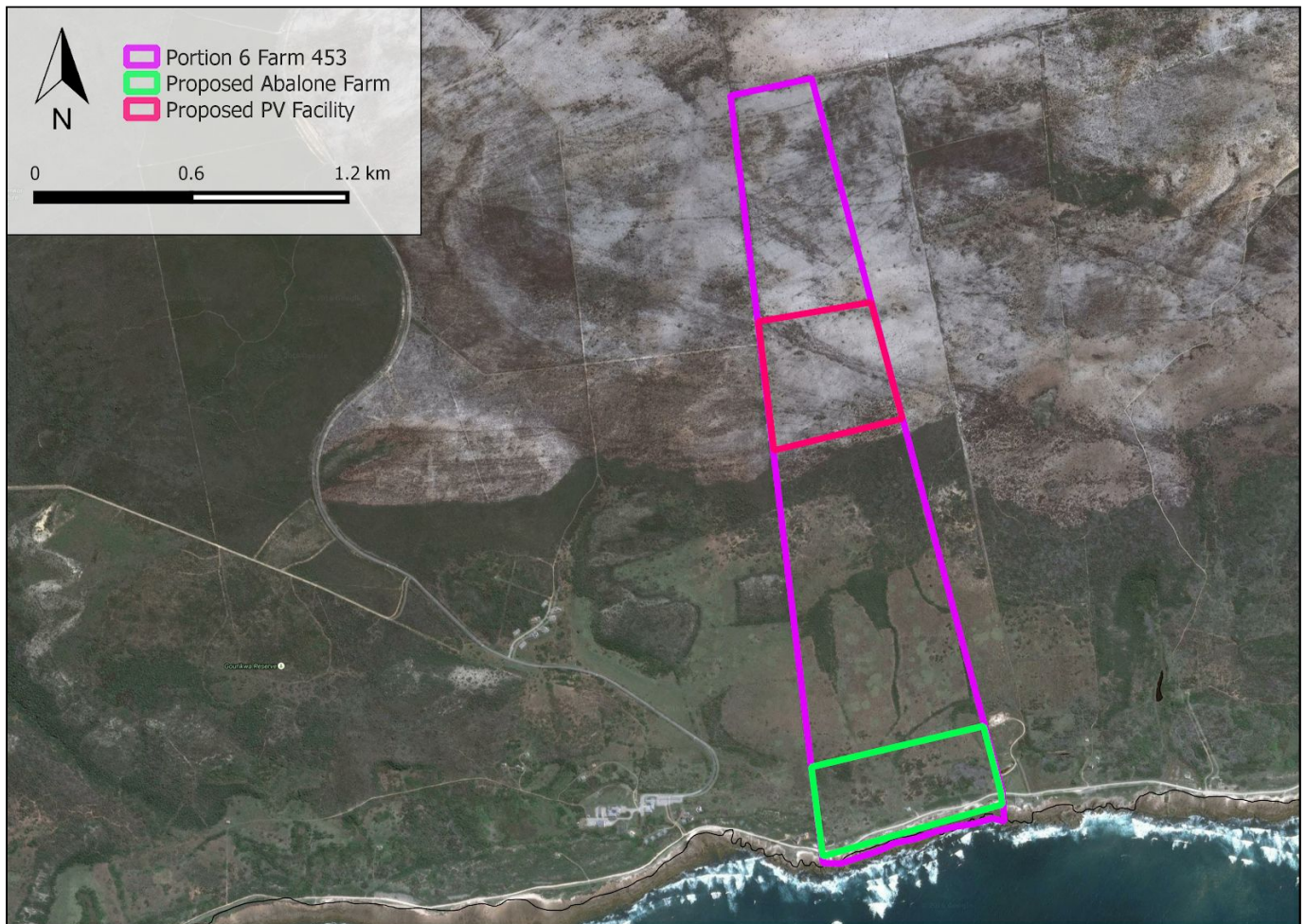
Portion 6 of Farm Langefontein 453

### 2. Location

Near Gouritzmond in the Hessequa Municipality

Centroid: -34.3723482166 S 21.7674173925 E

### 3. Locality Plan



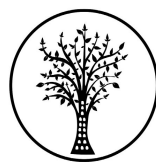
### 4. Description of Proposed Development

It is proposed that a 440 ton abalone farm and photovoltaic facility will be built on an area of 16 to 18 ha of Portion 6 of Farm Langefontein 453. The majority of fixed infrastructure will be set back above the road separating the farm from the coastline, with the exception of the pumps and pipelines. Due to its remote location, a package plant will be required for sewage treatment. The electricity will be supplemented by an onsite solar array. An additional borehole may be required to supplement the freshwater supply. Refuse will be sorted on site and transferred to the local municipal waste disposal facility [Draft BAR, 2016].

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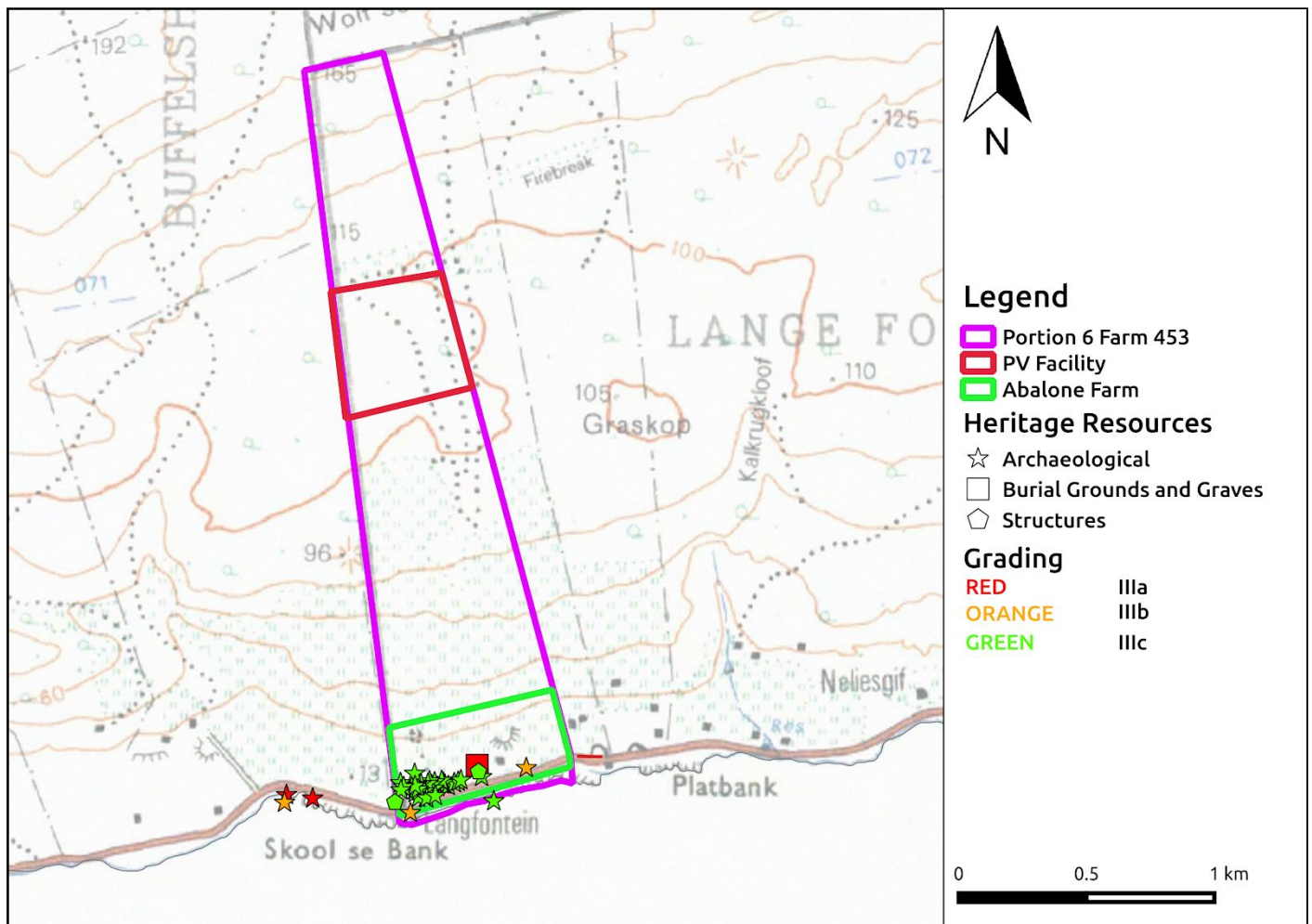
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**5. Heritage Resources Identified (A description of the heritage resources on the site and their locations relative to the development.)**

| No. | SAHRIS SITEID | Site Name | Site Type               | Grading    | Latitude       | Longitude     |
|-----|---------------|-----------|-------------------------|------------|----------------|---------------|
| 1   | 98974         | RNR 1     | Shell Midden            | Grade IIIb | -34.384779     | 21.766872     |
| 2   | 99002         | GRTZ01    | Burial Grounds & Graves | Grade IIIa | -34.38311      | 21.76971      |
| 3   | 99003         | GRTZ02    | Shell Midden            | Grade IIIc | -34.383517     | 21.7699       |
| 4   | 99004         | GRTZ03    | Stone walling           | Grade IIIb | -34.3832       | 21.7718       |
| 5   | 99005         | GRTZ04    | Shell Midden            | Grade IIIc | -34.383867     | 21.768033     |
| 6   | 99006         | GRTZ05    | Shell Midden            | Grade IIIc | -34.383783     | 21.768233     |
| 7   | 99007         | GRTZ06    | Shell Midden            | Grade IIIc | -34.383783     | 21.768333     |
| 8   | 99011         | GRTZ07    | Intertidal              | Grade IIIc | -34.384367     | 21.770417     |
| 9   | 99012         | GRTZ08    | Shell Midden            | Grade IIIc | -34.383833     | 21.768483     |
| 10  | 99013         | GRTZ09    | Shell Midden            | Grade IIIc | -34.383733     | 21.768733     |
| 11  | 99014         | GRTZ10    | Shell Midden            | Grade IIIc | -34.383683     | 21.7689       |
| 12  | 99015         | GRTZ11    | Shell Midden            | Grade IIIc | -34.383633     | 21.769017     |
| 13  | 99016         | GRTZ12    | Shell Midden            | Grade IIIc | -34.383717     | 21.768267     |
| 14  | 99017         | GRTZ13    | Shell Midden            | Grade IIIc | -34.38365      | 21.7682       |
| 15  | 99018         | GRTZ14    | Shell Midden            | Grade IIIc | -34.3837       | 21.7679       |
| 16  | 99019         | GRTZ15    | Shell Midden            | Grade IIIc | -34.383917     | 21.767867     |
| 17  | 99020         | GRTZ16    | Shell Midden            | Grade IIIc | -34.3838       | 21.767767     |
| 18  | 99021         | GRTZ17    | Shell Midden            | Grade IIIc | -34.383667     | 21.767683     |
| 19  | 99022         | GRTZ18    | Shell Midden            | Grade IIIc | -34.38375      | 21.767617     |
| 20  | 99023         | GRTZ19    | Shell Midden            | Grade IIIc | -34.383767     | 21.767317     |
| 21  | 99024         | GRTZ20    | Shell Midden            | Grade IIIc | -34.3838       | 21.767133     |
| 22  | 99025         | GRTZ21    | Artefacts               | Grade IIIc | -34.3834       | 21.76705      |
| 23  | 99026         | GRTZ22    | Shell Midden            | Grade IIIc | -34.383883     | 21.766933     |
| 24  | 99027         | GRTZ23    | Shell Midden            | Grade IIIc | -34.383983     | 21.76705      |
| 25  | 99028         | GRTZ24    | Shell Midden            | Grade IIIc | -34.384083     | 21.767067     |
| 26  | 99029         | GRTZ25    | Shell Midden            | Grade IIIc | -34.384017     | 21.767467     |
| 27  | 99030         | GRTZ26    | Shell Midden            | Grade IIIc | -34.38425      | 21.767517     |
| 28  | 99031         | GRTZ27    | Shell Midden            | Grade IIIc | -34.38425      | 21.767217     |
| 29  | 99032         | GRTZ28    | Shell Midden            | Grade IIIc | -34.384017     | 21.767233     |
| 30  | 99033         | GRTZ29    | Shell Midden            | Grade IIIc | -34.38395      | 21.7672       |
| 31  | 99034         | GRTZ30    | Shell Midden            | Grade IIIc | -34.383833     | 21.767067     |
| 32  | 99035         | GRTZ31    | Shell Midden            | Grade IIIc | -34.383733     | 21.76645      |
| 33  | 99036         | GRTZ32    | Shell Midden            | Grade IIIc | -34.383867     | 21.766583     |
| 34  | 99037         | GRTZ33    | Shell Midden            | Grade IIIc | -34.383983     | 21.766467     |
| 35  | 99038         | GRTZ34    | Shell Midden            | Grade IIIc | -34.384267     | 21.767567     |
| 36  | 99039         | GRTZ35    | Shell Midden            | Grade IIIc | -34.384183     | 21.767933     |
| 37  | 105774        | GRTZ36    | Structure               | Grade IIIc | -34.3843872667 | 21.7661924135 |
| 38  | 105775        | GRTZ37    | Structure               | Grade IIIc | -34.3833464251 | 21.7697783898 |
| 39  | 127255        | GRTZ38    | Burial Ground           | Grade IIIa | -34.383779     | 21.768237     |



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## 6. Anticipated Impacts on Heritage Resources

The impact of the proposed development will be limited, and will most likely occur during the Construction Phase of the project (i. e. excavations for building foundations, terracing cutback, installation of services, etc).

The following impacts are anticipated for the **Photovoltaic facility**:

- Considering the paucity of archaeological sites in this area of the farm, significant impacts on archaeological resources are not anticipated.
- Considering the low fossil sensitivity of this area of the farm, negligible impacts on palaeontological resources are anticipated.
- Considering the visual impacts on the cultural landscape, the P.V. facility has been scaled down and placed on a north-facing leeward slope formed by the undulating dune cordon to shield the visual impact of the facility when viewed from the coast. The impact of the P.V. facility is not permanent on the visual experience of the landscape as it can be removed once the facility has run its economic course as opposed to archaeological resources which are non-renewable.

The following impacts are anticipated for the **abalone farm**:



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- Construction activities, including bulk earthworks (for example foundation excavations for buildings, terrace cuttings etc), and excavations for services (water pipelines & installation of cables for the solar array), will likely impact on fragile heritage resources (refer to impact assessment table 2).  
Unmarked (Later Stone Age) human remains may also be uncovered.
- Although structures of some heritage significance fall within the development footprint, these will not be altered or impacted by the proposed development.
- Impacts on the rural cultural landscape will be made as the development entails a denser, more concentrated form of operations than the currently loose-knit farmsteads and outbuildings which dot the area.

## 7. Recommendations

Alternative 2 (preferred) has evolved with guidance from the specialist team and therefore includes “no development areas”, buffers, and test excavations for potential archaeological materials. This has resulted in a smaller alternative with fewer impacts than the previous alternative. The coastal waters discharge permit (CWDP) will ensure that effluent water quality is monitored and adheres to acceptable standards. Mitigatory measures have also been introduced to soften and break up the spatial layout, massing and architectural design in order to retain as much of the rural landscape character of the area.

The impacts of the proposed development of \_\_\_\_\_ can be mitigated through the implementation of the recommendations below.

Shovel testing must be undertaken to determine the significance of subsurface archaeological deposits. The focus of test excavations will be on the narrow dune cordon in the south western portion of the proposed development site. This will require the submission of a workplan to HWC for approval.

The historic stone wall (SAHRIS Site ID: 99004) alongside the gravel road (inside the footprint area) must be protected and incorporated into the final development proposal. A 10m protective buffer is required.

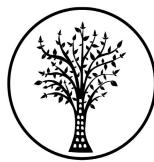
The possible grave/burial (SAHRIS Site ID: 99002) in the Eskom servitude must be avoided. The ‘grave’ must be demarcated (possibly enclosed inside a small fence), or simply left alone.

Bulk earthworks (i. e. excavations for building foundations, terracing cut backs, & services) must be monitored by a professional archaeologist. The site must be inspected once a week by the archaeologist during the construction phase of the project.

It is not necessary for the archaeologist to monitor vegetation clearing operations, but the existing structures must not be impacted or altered as part of the proposed development.

The Environmental Control Officer (ECO) must be briefed on site by the archaeologist prior to the commencement of site clearing. The site must also be inspected once vegetation clearing has been completed.

If any unmarked human remains are exposed or uncovered during excavations and earthworks, these must immediately be reported to Heritage Western Cape (Att: Mr Andrew September), or the archaeologist (Jonathan Kaplan 082 321 0172).



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- The HWC Fossil Finds Procedure must be implemented.
- The mitigation recommendations included in section 5 of the VIA Report (PHS Consulting, 2017, Annexure 4) must be implemented and adhered to.
- The mitigation recommendations in Site and Landscape Development Plan by J.d.V Landscape Studio (Annexure 8) must be adhered to pertaining to the landscaping, massing and architectural design guidelines.

The above recommendations must be incorporated into the Environmental Management Plan (EMP) for the proposed development.

## **8. Author/s and Date**

Originally authored 31 May 2017

Final revisions 12 February 2017 by Nicholas Wiltshire, CTS Heritage

Revised 10 July by Jenna Lavin, CTS Heritage

Kyla Bluff, CTS Heritage - Report Writing, Heritage Screener and Mapping (HIA)

Jenna Lavin, CTS Heritage - Report Writing and Heritage Screener (HIA)

Jonathan Kaplan, ACRM - Report Writing, Mapping, Field Work (AIA)

John Pether - Report Writing, Mapping (PIA)

PHS Consulting - Report Writing, Mapping, Field Work (VIA)