Our Ref: HM/ EDEN / GEORGE / HEROLDS BAY / RE FARM 236 BRAKFONTEIN,

FARM 10/236 BRAKFONTEIN, RE FARM 237, ERF 116, ERF 113,

REMAINDER OF 95, PORTION 37 OF FARM 236, PORTION 35 OF FARM 236

AND PORTION 36 OF FARM 236

Case No: HWC24041004SB0410
Enquiries: Stephanie Barnardt

E-mail: Stephanie.Barnardt@westerncape.gov.za

Tel: 021 829 3315

Applicant: George Municipality

E-mail: mgeyer@george.gov.za; Jkoegelenberg@george.gov.za; and peter@carm.co.za

RESPONSE TO NOTIFICATION OF INTENT TO DEVELOP: FINAL
In terms of Section 38(8) of the National Heritage Resources Act (Act 25 of 1999) and the Western Cape
Provincial Gazette 6061, Notice 298 of 2003

NOTIFICATION OF INTENT TO DEVELOP: THE PROPOSED UPGRADING OF THE HEROLD'S BAY PUMP STATION AND ASSOCIATED RISING MAIN AS WELL AS THE DEVELOPMENT OF NEW ASSOCIATED INFRASTRUCTURE, ON RE FARM 236 BRAKFONTEIN, FARM 10/236 BRAKFONTEIN, RE FARM 237, ERF 116, ERF 113, REMAINDER OF 95, PORTION 37 OF FARM 236, PORTION 35 OF FARM 236 AND PORTION 36 OF FARM 236, HEROLD'S BAY, GEORGE, SUBMITTED IN TERMS OF SECTION 38(1) OF THE NATIONAL HERITAGE RESOURCES ACT (ACT 25 OF 1999)

The matter above has reference.

Heritage Western Cape is in receipt of the above matter received. This matter was discussed at the Heritage Officers meeting held on 22 April 2024

You are hereby notified that, since there is no reason to believe that the proposed upgrading of the Herold's Bay Pump Station and Associated Rising Main As Well As The Development Of New Associated Infrastructure, On Re Farm 236 Brakfontein, Farm 10/236 Brakfontein, Re Farm 237, Erf 116, Erf 113, Remainder Of 95, Portion 37 Of Farm 236, Portion 35 Of Farm 236 And Portion 36 Of Farm 236, Herold's Bay, George will impact on heritage resources, no further action under Section 38 of the National Heritage Resources Act (Act 25 of 1999) is required. HWC Chance Find Producer to be included in the environmental authorization.

However, should any heritage resources, including evidence of graves and human burials, archaeological material and paleontological material be discovered during the execution of the activities above, all works must be stopped immediately, and Heritage Western Cape must be notified without delay.

This letter does not exonerate the applicant from obtaining any necessary approval from any other applicable statutory authority.

HWC reserves the right to request additional information as required.

Should you have any further queries, please contact the official above and quote the case number.

Waseefa Dhansay

Assistant Director: Professional Services

Heritage Western Cape
Erfenis Wes-Kaap
ILifa leMveli leNtshona Koloni

24 April 2024

Www.

ILifa leMveli leNtshona Koloni

Erfenis Wes-Kaap

Heritage Western Cape

www.westerncape.gov.za/cas

Street Address: Protea Assurance Building, Green Market Square, Cape Town, 8000 • Postal Address: P.O. Box 1665, Cape Town, 8000 • Tel: +27 (0)21 483 5959 • E-mail: ceoheritage@westerncape.gov.za

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Idilesi yendawo: kumgangatho 3, kwisakhiwo iprotea Assurance, Greenmarket Square, ekapa, 8000 • Idilesi yeposi: Inombolo yebhokisi yeposi 1665, eKapa, 8000 • Iinombolo zomnxeba: +27 (0)21 483 5959 • Idilesi ye-imeyile: ceoheritage@westerncape.gov.za



APPLICATION FORM

NOTIFICATION FOR INTENT TO DEVELOP (NID)

Section 38(1) and Section 38(8)

Completion of this form is required by Heritage Western Cape for the initiation of all impact assessment processes under Section 38 (1) & (8) of the National Heritage Resources Act (NHRA).

As per Section 38(1)(e) of the NHRA, submission of the NID must be initiated at the earliest stage of development. Should the development trigger any other legislation, practitioners may submit the NID without formal submission to other statutory bodies in order to comply with the NHRA.

This form is to be read in conjunction with the HWC Notification of Intent to Develop, Heritage Impact Assessment, (Pre-Application), Basic Assessment Reports, Scoping Reports and Environmental Impact Assessments.

All sections of the form must be completed in order to deem the application to be complete.

Making an incorrect statement or providing incorrect information may result in all or part of the application having to be reconsidered by HWC in the future, or submission of a new application.

HERITAGE WESTERN CAPE REFERENCE NO., AS PROVIDED DURING SCRUTINY:	HWC24041004

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APPLICATION MADE IN TERMS (OF		•
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		Section 38(1) of the NHRA (This <mark>de</mark> velopment will not require a NEM <mark>A application</mark>)
	X	Section 38(8) of the NHRA (This development requires an application with another authority)
		Amendment of app <mark>roved Site Development Plan (SDP) for endorsement. Endorse</mark> ments are only reviewed upon submission of an assessment by the heritage practitioner confirming heritage design indicators as approved are not compromised by the revision
Ī		Advice in terms of Section 38(1)

Erfenis Wes-Kaap

APPLICABILITY OF OTHER LEGISLATION:

Specify the authorised department that makes the final decision in terms of NEMA (National Environmental Act.), i.e. Department of Mineral Resources, Department of Environmental Affairs and Development Planning Western Cape, Department of Forestry, Fisheries and Environment etc.: Department of Environmental Affairs and Development Planning Western Cape

Reference number of authority / government department: 16/3/3/6/7/1/D2/29/0229/23

Present phase at which the process with that authority stands: Pre-Application Basic Assessment Process



PREVIOUS HWC APPLICATIONS APPLICABLE TO THE SITE AND OR DEVELOPMENT

Provide details of any previous applications submitted to HWC on the site.

HWC Reference No.	NHRA Section	Summary of Propo	osal	Application Status (Approved, Not Approved, Pending)	Permit / Record of Decision Date

SECTION B

DETAILS OF SITE, PROPERTY OR PLACE

Physical address or Location (e.g., of the R44): Off R304, along Gericke Crescent, along Skimmelkrans Drive and along Sandstrand Avenue, Herold's Bay, George, Western Cape Province

Erf or Farm Name and No. (including the name of the site): <u>RE Farm 236 Brakfontein, Farm 10/236 Brakfontein, RE Farm 237, Erf 116, Erf 113, Remainder of 95, Portion 37 of Farm 236, Portion 35 of Farm 236 and Portion 36 of Farm 236</u>

Coordinates for logical center point (WGS84): start at Herold's Bay WWTW 34°03'14.18" \$ 22°22'46.99" E, Midway 34°03'14.50" \$ 22°23'13.97" E and end at existing pump station 34°03'11.87" \$ 22°23'34.53" E

Town: Herold's Bay District / Municipality: George

Property Extent: 1230 m in length and maximum 2460 m² in extent Current land Use: WWTW, sewer & road

<u>servitude</u>

Current zoning:

Farm 37/236 & Farm 35/236	Wastewater Treatment Works Site	Utility Zone
RE Farm 236 & Farm 10/236	New Rising Main crosses	Agricultural Zone I
RE Farm 237 / Farm 36/236	New Rising Main Crosses	Transport Zone II
Erf 116	New screening and de-gritting pump station	Transport Zone II
Erf RE/95	Existing Pump Station to be upgraded	Open Space I Utility Zone (Draft Zoning Scheme 2023)
Erf 113	New Rising Main crosses	Transport Zone II

Erfenis Wes-Kaap

Predominant land uses of surrounding properties: <u>WWTW, roads & sewer servitudes, bulk services & infrastructure, pump station, residential & undeveloped</u>



SECTION C

<u>APPLICANT / AUTHORISED AGENT</u> – <u>Details of person to receive Record of Decision</u>

Name: George Municipality, represented by Mr Johannes Franciscus Koegelenberg

Company: George Municipality: Civil Engineering Services

Address and postal code: PO Box 19, George, 6530

Cellular phone number: 044 801 1565 or 044 801 9278

E-mail: <u>mgeyer@george.gov.za</u>, <u>Jkoegelenberg@george.gov.za</u> <u>and</u> <u>peter@carm.co.za</u>

Signature: _

Date: ____

REGISTERED OWNER OF PROPERTY

Name: George Municipality, represented by Mr Johannes Franciscus Koegelenberg

Identity number of applicant: 7906085048081

Address and postal code: PO Box 19, George, 6530

Cellular phone number: 044 801 9278 (internal extension 1565)

E-mail: <u>Jkoegelenberg@george.gov.za</u>

Declaration: I, _____ am fully aware of this application and accept its contents and declare that I intend to undertake the actions as proposed in this application.

Signature:

2024-04-08

_Date:

SECTION D

DETAIL OF PROPOSED DEVELOPMENT

<u>Provide a full description of the nature and extent of the proposed development.</u>

Construct new rising main from the grit and screening (G&S) pump station to the Herold's Bay WWTW, approximately 1,230m in length along the current pipe route. The new pipeline from the grit and screening (G&S) pump station to the WWTW will cross Skimmelkrans Lane and follow Spekie Gericke Drive from where it will go over the hill to the WWTW.



Due to the rapid expansion of the George Municipal area, the age of existing infrastructure and planned developments; the George Municipality has identified the need for the rehabilitation and/or upgrade of the sewer infrastructure, including Herold's Bay Pump Station 1.

The pump station and WWTW are existing facilities. The pump station needs an upgrade, a new pipeline will replace an old one, and a new de-gritting and screening pump station will provide pre-treatment of the sewage which is vital to preserve the longevity of the progressive cavity pumps. Therefore, with the screening and de-gritting proposed at location 2, the wear items like the progressive cavity pumps and macerators are more protected to operate within their design parameters.

Four concepts have been developed by the engineers and Concept 3A was found to have the lowest risk on spillage, high tide, and robustness.

Concept 3A

- 1. The upgrading of the existing Pump Station No. 1 (location 1 on figure 1)
- 2. Construction of a new pump station 4 including degritting and screening equipment (G&S Pumps Station at location 2 on figure 1)
- 3. Construction of a new 250mm diameter rising main parallel to the existing rising main from the new Pump Station 4 to the Herold's Bay WWTW's (orange line, see item 3 on figure 1)
- 4. Construction of a new rising main from the Herold's Bay Pump Station No. 1 to the new screening and de-gritting pump station (yellow line, see item 4 on figure 1)
- 5. Construction of a new access road for maintenance purposes

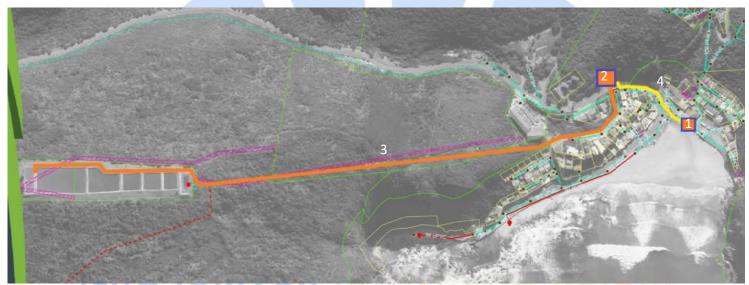


Figure 1: Concept layout for Concept 3A.

Scope of Works

- Erfenis Wes-Kaap Existing Herold's Bay Pump station number 1
 - Upgrade existing pump station's mechanical operating capacity from 19 L/s to 32 L/s
 - Install mechanical equipment to cater for the highly abrasive pumping conditions.
 - Install two (2) new submersible vortex pumps. The pumps shall be operated on a rotational basis as duty/standby.
 - All pumps to be equipped with variable speed drives.
 - Refurbish the entire pump station building and equipment, including all mechanical, electrical and electronic equipment.
 - Refurbish/replace the odour control unit.
 - Construct a new building to house the existing generator, should the generator PS not be able to supply backup power to
 - All structures to be stormproof as far as reasonably possible.
 - Provide emergency overflow tank and confirm sump size.
- New lifting pump station (PS4)
 - Construct a new lifting pump station with an operating capacity of 52 L/s.
 - Construct new inlet works comprising of: a screening station, and
 - a sand trap and degritter.



- o Install two (2) new dry well pumps.
- The pumps shall be operated rotationally as duty/standby.
- All pumps are being equipped with variable-speed drives.
- Install odour control unit.
- Installation of electrical and electronic equipment associated with the new pumpstation to accommodate a 32 L/s operating flow.
- Provision of a generator to accommodate all equipment required for the 52 L/s operating capacity. The viability of a single generator at pumpstation 4 to supply both pumpstations will be finalised suring detailed design.
- o The civil works will comprise the construction of new buildings, retaining walls, fences, access roads etc.
- New Rising Main
 - Construction of a new 52 L/s (200mm diameter) rising main pipeline between the
 existing pump station and the new lifting pump station and
 new lifting pump station and the Herold's Bay WWTW.
 - o Repurpose the existing rising main as emergency overflow line between PS4 and the and emergency overflow tank at PS 1.

EVALUATION OF CONCEPT 3A

- The addition of the new G&S pump station with the screenings and de-gritting area will be a costly upgrade.
- The location of the new G&S Pump Station is on a municipal existing erf, located next to Skimmelkrans Drive. Depending on demarcation, it might be required to extend the erf or create an additional servitude.
- The alteration of the existing pump station pumping technology to use submersible pumps would yield the following benefits:
 - No need of the macerators and their maintenance component due to the large solids passage of the submersible.
 - Scaled down MCC (can be lifted higher for additional protection against the rising tide) or relocated to G&S pump station.
 - Submersible pumps are robust and are designed to handle the raw sewage.
 - Submersible pumps require very simplistic controls to operate.
 - o In case of a breakdown, the pump can easily be exchanged with a store standby due to the ease of installation.
- The location of the new G&S pump station would be more easily accessible during peak seasons, in addition to being significantly less intrusive and out of the way.
- Pre-treatment of the sewage is vital to preserve the longevity of the progressive cavity pumps. Therefore, with the screening and
 de-gritting proposed at new G&S pump station, the wear items like the progressive cavity pumps and macerators are more
 protected to operate within their design parameters.
- Odour control can be incorporated to eliminate foul air during cleaning of the screenings and sand.
- It is assumed that bulk electrical supply located close to the erf is either sufficient or can be upgraded to suit demand with minimal additional cost.







Figure 3: Localities of each section across the site.

Properties traversed by the activity include Farm 37/236 Brakfontein, Farm 35/236 Brakfontein, RE Farm 236 Brakfontein, Farm 10/236 Brakfontein, RE Farm 237, Erf 113, Spekie Gericke Drive, Erf 116, Remainder of Farm 236 Brakfotnetin and Erf RE/95 (see labelled markers in Figure 3).

DEVELOPMENT DETAILS - Indicate which sections of the NHRA, or other legislation which requires a NID

X	Section 38(1)(a) Construction of a road, wall, powerline, pipeline, canal or other similar form of linear development or barrier over 300m in length.
	Section 38(1)(b) Construction of a bridge or similar structure exceeding 50m in length.
	Heritage Western Cape
	Seation 20(1)(a) Any development or get with that will aband the abardeter of a site:
	Section 38(1)(c) Any development or activity that will change the character of a site:
	Section 38(1)(c) Any development or activity that will change the character of a site:
	Section 38(1)(c) Any development or activity that will change the character of a site:
	Section 38(1)(c) Any development or activity that will change the character of a site: (i) exceeding 5 000m² in extent.
x	
<	(i) exceeding 5 000m² in extent.

Form B – Section 38 Notification of Intent to Develop (NID) - April 2023



-			
		ly impacted by sewer infrastructure and a vari	
	•	face and hence no visual impact. The new pu	-
		ation and will have no impact on sub-surface	
	the destinetics of	f the area. The proposed activity will thus not c	change the character of the site.
	Section 38(1)(d)	Rezoning of a site exceeding 10 000m ² in exte	ent.
Х	Other triggers e.	g., in terms of other legislation (NEMA, etc.) – \Box	Describe the details:
	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.
	10	The development and related operation of infrastructure exceeding 1 000 metres in length for the bulk transportation of sewage, effluent, process water, waste water, return water, industrial discharge or slimes – (i) with an internal diameter of 0,36 metres or more; or (ii) with a peak throughput of 120 litres per second or more; excluding where— (a) such infrastructure is for the bulk transportation of sewage, effluent, process water, waste water, return water, industrial discharge or slimes inside a road reserve or railway line reserve; or (b) where such development will occur within an urban area.	The pipeline from the new proposed G&S (grit and screening) pump station to the Herold's Bay Waste Water Treatment Works will be approx. 1 230 m in length along the current pipe route. The diameter will only be 0.25 metres (250 mm) .The current flow is 19 l/s and the future flow through the new pipeline will be 35l/s which is far less than 120 l/s.
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Erfenis Wes-Kaap Heritage Western Cape



of more than 10 cubic metres into, or the rising main route from G&S (grit and
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	dredging, excavation, removal or moving of soil, sand, shells, shell grit, pebbles or rock of more than 10 cubic metres from a watercourse; but excluding where such infilling,	Wastewater Treatment Works, will pass through or just outside an unchannelled valley-bottom wetland.	
	depositing, dredging, excavation, removal or moving— fi_4 will occur behind a development	The freshwater specialist will still confirm if this activity is applicable by groundtruthing the presence of the	
	setback; (i) is for maintenance purposes undertaken in accordance with a	wetland.	
	maintenance management plan; (ii) falls within the ambit of activity 21 in this Notice, in which case that activity applies;		
	(iii) occurs within existing ports or harbours that will not increase the development footprint of the port or		
	harbour; or (iv) where such development is related to the development of a port or		
	harbour, in which case activity 26 in Listing Notice 2 of 2014 applies.		
	The clearance of an area of 1 hectare or		
27	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	This activity is not triggered as the pumpstation site is disturbed and the clearance of vegetation will be undertaken for the pipeline which is a	1
	(ii) maintenance purposes undertaken in accordance with a maintenance management plan.	linear activity. The exclusion therefore applies.	
48	The expansion of— (i) infrastructure or structures where the physical footprint is expanded by 100 square metres or more; or (ii) dams or weirs, where the dam or weir, including infrastructure and water surface area, is expanded by 100 square metres or more; where such expansion occurs— (a) within a watercourse; (b) in front of a development setback; or (c) if no development setback exists, within 32 metres of a watercourse, measured from the edge of a watercourse; excluding— (aa) the expansion of infrastructure or structures within existing ports or harbours that will not increase the development footprint of the port or harbour;	This activity might be applicable depending on feedback from the freshwater specialist.	
	(bb) where such expansion activities are related to the development of a port or harbour, in which case activity 26 in Listing Notice 2 of 2014 applies; (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; (dd) where such expansion occurs within an urban area; or (ee) where such expansion occurs within existing roads, road reserves or railway line reserves.		
52 Activity No(s):	The expansion of structures in the coastal public property where the development footprint will be increased by more than 50 square metres, excluding such expansions within existing ports or harbours where there will be no increase in the development footprint of the port or harbour and excluding activities listed in activity 23 in Listing Notice 3 of 2014, in which case that activity applies. Provide the relevant Basic Assessment Activity(ies) as set out in Listing Notice 3	Herold's Bay Pumpstation 1 is located within the coastal public area. The activity is therefore triggered by the proposal. Describe the portion of the proposed development to which the applicable listed	
12	The clearance of an area of 300 square metres or more of indigenous vegetation except where such clearance of indigenous vegetation is required for maintenance purposes undertaken in accordance with a maintenance management plan. i. Western Cape i. 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; ii. Within critical biodiversity areas identified in bioregional plans;	More than 300 m² of vegetation will have to cleared to lay the new rising	
14	The development of— (i) dams or weirs, where the dam or weir,	This activity might be applicable depending on feedback from the freshwater specialist.	



	or		
	(ii) infrastructure or structures with a physical footprint of 10 square metres or		
	more;		
	where such development occurs—		
	(a) within a watercourse;		
	(b) in front of a development setback;		
	or		
	(c) if no development setback has been		
	adopted, within 32 metres of a watercourse, measured from the edge		
	of a watercourse;		
	excluding the development of		
	infrastructure or structures within existing		
	ports or harbours that will not increase		
	the development footprint of the port or		
	harbour.		
	i. Western Cape		
	i. Outside urban areas:		
	(aa) A protected area identified in terms		
	of NEMPAA, excluding conservancies; (bb) National Protected Area Expansion		
	Strategy Focus areas;		
	(cc) World Heritage Sites;		
	(dd) Sensitive areas as identified in an		
	environmental management framework		
	as contemplated in chapter 5 of the Act		
	and as adopted by the competent		
	authority;		
	(ee) Sites or areas listed in terms of an international convention:		- 10
	(ff) Critical biodiversity areas or		A
	ecosystem service areas as identified in		
	systematic biodiversity plans adopted		
	by the competent authority or in		
	bioregional plans;		
	(gg) Core areas in biosphere reserves; or		
	(hh) Areas on the estuary side of the		
	development setback line or in an		
	estuarine functional zone where no such		
Activity No(s):	setback line has been determined.	Describe the portion of the proposed	}
7.10(17) 110(1)	Provide the relevant Scoping and EIR Activity(les) as set out in Listing Notice 2	development to which the applicable listed activity relates.	

ESTIMATED CONSTRUCTION COST AND/ OR VALUE OF DEVELOPMENT UPON COMPLETION: R _____ R51 million _ R68 million ____

SECTION E

PROVIDE A SHORT HISTORY OF THE SITE, PROPERTY OR PLACE - Include sources where applicable

The proposed development footprint has been developed for sewerage infrastructure since at least 1980. The proposed route follows the existing sewer pipeline from the existing WWTW and along various roads through Herold's Bay to the existing pump station on Erf RE/95 adjacent to the beach parking lot. The entire development footprint is transformed, and the Grade II



Herold's Bay Cave and other known heritage resources will not be impacted by the proposed activity. See further details in the accompanying "Heritage Statement".

ANTICIPATED IMPACTS ON HERITAGE RESOURCES

Section 3 of the NHRA sets out the following categories of heritage resource as forming part of the national estate. Please indicate the known presence of any of these by checking the box alongside and then providing a description of each occurrence, including nature, location, size, type

Failure to provide sufficient detail or to anticipate the likely presence of heritage resources on the site may lead to a request for more detailed specialist information.

<u>IDENTIFICATION OF ALL HERITAGE RESOURCES ON THE SITE, PROPERTY OR PLACE AND ITS ENVIRONMENTS</u>

Please indicate where applicable:

<u>X</u>	Places, buildings, structures, and equipment of cultural significance:					
	Description of Heritage Resource: Structures older than 60 years, such as the Stella Maris Catholic					
	Chapel (c. 1932), are located in the surroundings (De Kock 2016), but no heritage sites or structures					
	older than 60 years will be impacted by the proposed activity. See further details in the accompanying					
	"Heritage Statement".					
	Descriptions of Heritage Impact: none anticipated					
	Places to which oral traditions are attached or which are associated with living heritage:					
	Description of Heritage Resource:					
	Descriptions of Heritage Impact:					
	Places to which o <mark>ral tradition</mark> s are attached or which are associated with living heritage:					
	Description of Her <mark>itage Reso</mark> urce:					
	Descriptions of Heritage Impact:					
	Lilifa leMyeli leNtshong Koloni					
	Historical settlements and townscapes: Description of Heritage Resource:					
	Erfonic Wos-Kaan					
	Descriptions of Heritage Impact:					
	Landscapes and natural features of cultural significance:					
	Description of Heritage Resource:					
	Descriptions of Heritage Impact:					
	Geological resources of scientific or cultural significance:					
	Description of Heritage Resource:					
	Descriptions of Heritage Impact:					
<u>X</u>	Archaeological resources – Incl. archaeological sites and material, rock art, battlefields, and wrecks etc.:					
	Description of Heritage Resource: <u>The Provincial Heritage Stie of Herold's Bay Cave, a rock shelter with</u> Stone Age material and fossil bone and shell, is situated less than 50 m south of the proposed sewer					
	pipeline (Nilssen 2019). Structures and existing developments separate the proposed activity from the					



	rock shelter, and it will not be impacted by the proposed activity. Although none were seen, it is anticipated that isolated Stone Age pieces may be present in the undeveloped part of the project. Such resources are of low significance and Not Conservation Worthy. Nevertheless, these areas were previously impacted by development including trenching for the existing rising main and no impacts are anticipated. See further details in the accompanying "Heritage Statement". Descriptions of Heritage Impact: none anticipated
X	Palaeontological resources – i.e., fossils, geological formations etc.: Description of Heritage Resource: The SAHRIS PalaeoSensitivity Map shows the area is shaded grey and blue. This means that no further studies are required but that the Fossil Finds Procedure should be included in the Environmental Authorization and/or Environmental Management Program. See further details in the accompanying "Heritage Statement". Descriptions of Heritage Impact: none anticipated
	Graves and burial grounds – e.g.: ancestral graves, graves of victims of conflict, historical graves, cemeteries etc.: Description of Heritage Resource: Descriptions of Heritage Impact:
	Sites of significance relating to the history of slavery in South Africa: Description of Heritage Resource: Descriptions of Heritage Impact:
	Other heritage resources: Description of Heritage Resource: Descriptions of Heritage Impact:
PPOVIDE	A SHAMARY OF THE ANTICIPATED IMPACTS ON HERITAGE RESOURCES

PROVIDE A SUMMARY OF THE ANTICIPATED IMPACTS ON HERITAGE RESOURCES

There are no anticipated impacts on heritage resources, but in the event of chance discovery, the Fossil Finds Procedure must be included in the Environmental Authorization and/or Environmental Management Program for the project. See further details in the accompanying "Heritage Statement".

SECTION F

RECOMMENDATION

n your opinion, do			

Yes X No



Specialist studies to be provided as part of the HIA:

	Architectural (i.e., fabric analysis, historical analysis, material analysis etc.)
	Archaeological Impact Assessment
_	Paleontological Impact Assessment
	Townscape Assessment
	Cultural Assessment
	Social Historical Study
	Visual Impact Assessment
	Other:

Recommendations made by: Dr. Peter Nilssen

Capacity: Holds a PhD in archaeology, University of Cape Town, 2000 and is a Professional member - in good standing - of the Association of Southern African Professional Archaeologists (ASAPA), including the Cultural Resource Management section of the same association since 1989 (ASAPA professional member # 097). Peter is an accredited Principal Investigator for archaeozoology (specialist analysis), coastal, shell midden and Stone Age archaeology; Field Director for Colonial Period archaeology; and Field Supervisor for Iron Age archaeology and Rock Art. He has worked as a professional archaeologist in Cultural Resource Management since 1989 and has completed more than 260 heritage-related impact assessments and mitigation projects as Principal Investigator.

PLEASE NOTE

Any further studies which HWC requires should be submitted in the form of a single, consolidated report with a single set of recommendations. Specialist studies must be incorporated in full, either as chapters of the report, or as annexures thereto.

Please refer to the Guidelines for Heritage Impact Assessments required in terms of Section 38 of the National Heritage Resources Act (25 of 1999).

Applications are considered to be public documents and are open to public scrutiny. Should you wish for your application to be kept confidential, please motivate your request on a separate sheet attached to your application form.

For applications that are granted confidentiality, this confidentiality will be limited to one year (12 months). applications that are granted confidentiality, this confidentiality will be limited to one year (12 months).





Locality Map. General location of the study area (red star) SW of George, Western Cape Province. Courtesy of Google Earth 2023.



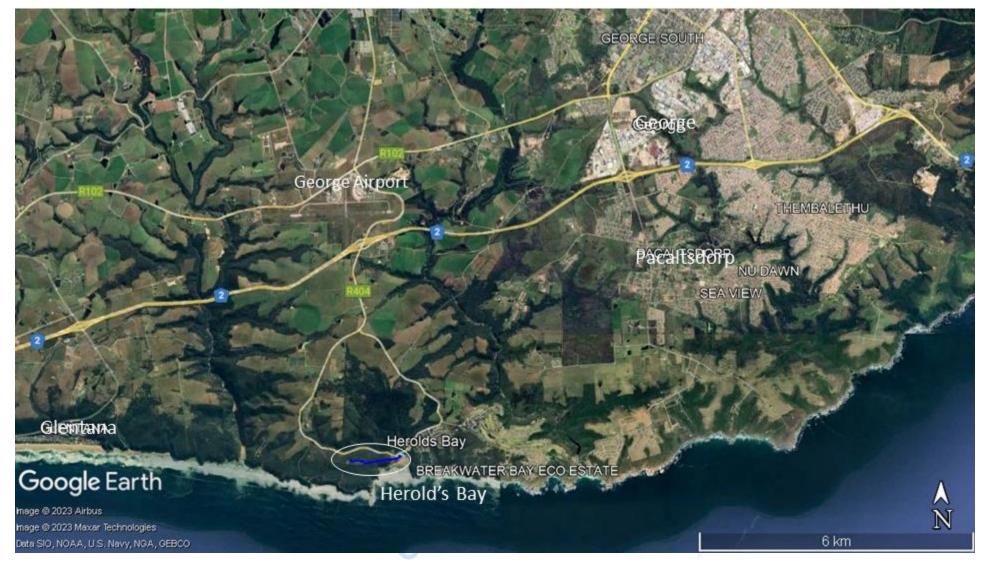


Figure 1. Enlarged from Locality Map showing the linear study area (white ellipse) relative to Herold's Bay, Pacaltsdorp, George Airport and George. Courtesy of Google Earth 2023.



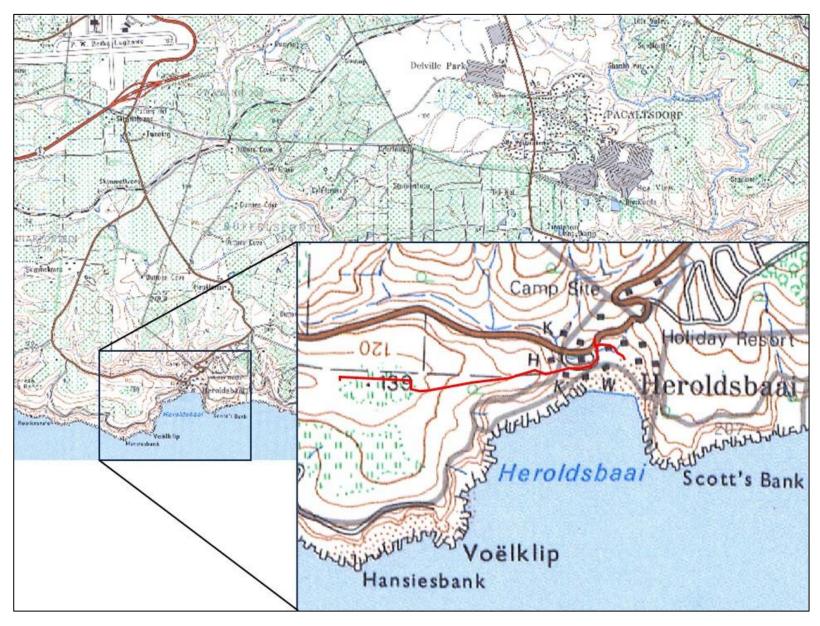


Figure 2. Enlarged portion of 1:50 000 topographic map 3422 AB 1982 Pacaltsdorp showing Herold's Bay and study area (red line in inset). Courtesy of the Chief Directorate Surveys and Mapping, Mowbray and Google Earth 2023.





Figure 3. Area enlarged from Figure 1 showing study area (coloured lines), properties and developments. Courtesy of Cape Farm Mapper and Google Earth 2023.

Page 18 of 19





Figure 4. Area enlarged from Figure 3 the study area (coloured lines), properties and developments. Courtesy of Cape Farm Mapper and Google Earth 2023.