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# SITE SENSITIVITY VERIFICATION REPORT

FOR THE

PROPOSED UPGRADE OF THE MOORDKUIL  
RAW WATER PUMP STATION ON PORTIONS  
15, 24 AND 25 OF THE FARM KLIPHEUVEL  
NO. 143, KLEINBRAK RIVIER, MOSSEL BAY  
MUNICIPALITY, WESTERN CAPE

**DFFE REF NO:** TBC

**DATE:** 26 June 2026



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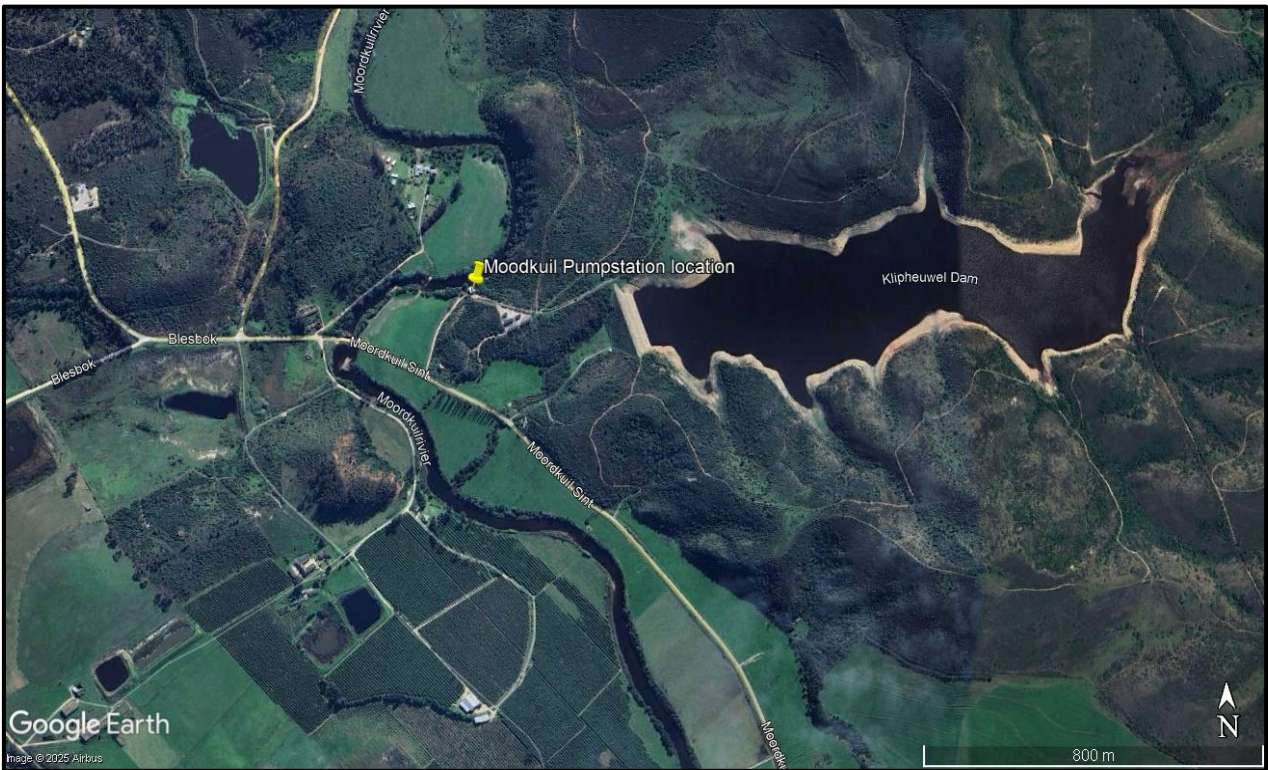
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# **1. INTRODUCTION AND PROJECT DESCRIPTION**

Sharples Environmental Services cc was appointed by Neil Lyners and Associates (Pty) Ltd, on behalf of the Department of Water and Sanitation, as the Independent Environmental Assessment Practitioner to conduct the Basic Assessment Report for the Upgrading of the Moordkuil Raw Water Pump Station (Moordkuil Pump Station).

The existing raw water abstraction works (constructed in 1980) was designed to abstract 800 litres per second of water from the Moordkuil river and to pump the water to the Klipheuwel Dam for storage. The Klipheuwel Dam is one of four reservoirs from which Mossel Bay residents receive their water. Only one of the existing two axial pumps is currently operational, which means that the facility is operating at half its original intended design capacity. The existing axial pump station design is outdated and it is not able to be maintained / repaired due to the unavailability of parts and other maintenance restrictions (unable to remove parts easily, axial pumps are not protected from silt and are subject to repeated wear and tear). It is therefore required to upgrade the existing raw water abstraction works and pump station with more modern technology that will be low maintenance, cost effective and efficient (able to abstract water at the full original intended design capacity of 800 litres per second and low maintenance). Please refer to Figure 1 and 2 below for the locality of the Moordkuil Pump Station.



**Figure 1: Location of the Moordkuil Pump Station.**



**Figure 2: Close-up Locality of the Moordkuil Pump Station.**

The proposal to upgrade the Moordkuil Pump Station had commenced in 2014, whereby *Sharple's Environmental Services cc* obtained an Environmental Authorisation for the proposed upgrades on the 4<sup>th</sup> of June 2018 (EA Ref: 14/12/16/3/3/1/1840). However, the project was paused and the EA subsequently lapsed. The project has since resumed and therefore a new application and BAR is being undertaken to obtain Environmental Authorisation for the proposed upgrades.

**Description of the Proposed Development:**

The proposed development project entails the upgrade of the existing Raw Water Abstraction Works and Pump Station. In summary, the following is proposed to be constructed:

- The construction of a new reinforced concrete inlet hopper structure for the pump station;
- The construction of pipe protection ramp structure for the pipes into the existing pump station building.
- The reinstatement of the existing gravel access road from Blesbok Road to the site (180m long and 3.6m wide) by reinstating the existing gravel road, within the same development footprint, which has become almost impassable due to water ingress into the existing layerworks (farmers leaking irrigation channel). The final road is proposed to be 3m wide. 300mm is proposed on each side for the bottom layerworks that have to be wider than the top layerworks to transfer vehicle loads to the soil. The proposed affected area will be 3.6m but the final road will be 3m wide. The existing road is that its layerworks would also have been similar to the proposed reinstatement design.
- A new concrete road (in an already disturbed area mostly). The new concrete road proposed is approximately 900m<sup>2</sup> and ranges in width from 3m to 7.4m (in order for a 5 ton truck to turn around);
- Installation of gabions between the cement access road edge and the river;
- Construction of an access ramp to the hopper;

- The construction of a new water meter chamber next to the pump station. The development footprint of the water meter chamber is approximately 24m<sup>2</sup>;
- Replacing of three air-valves and construction of new chambers around the air-valves;
- Installation of new pipework, pumps and motor control centers;
- Installation of other mechanical items such as cover, trash-racks, etc.
- Upgrading of the electrical supply and breakers within the existing pump station building;
- Installation of a sediment barrier downstream of the crossing to curb sediment generation in the river;
- Final reinstatement of the river bed to the requirements of the CEMP;

The concrete inlet hopper structure is proposed to be anchored to the bedrock by means of piling foundations. In order to install the piles, a pile rig needs to obtain access in the correct position. It is for this reason that a temporary platform structure is required to be constructed within the Moordkuil River.

The area where the inlet hopper (and the associated pile foundations) is proposed to be constructed is below the 1:10 year floodline, within the river. It is therefore required to construct a coffer dam around the area where the inlet hopper structure is proposed to be built in order to have a dry area for construction and concrete setting.

All of the above, except for the proposed temporary platform, cement access road, new water meter chamber and sediment barrier, are proposed within the existing development footprint.

It is also proposed to demolish the existing underwater cement bag wall, existing above water concrete steps and the existing underwater concrete plinths for the existing pipes.

Please refer to the proposed site layout plans, Figures 4-8.

Upon recommencement of the project in late 2024, an underwater survey was undertaken to assess changes in the riverbed topography since 2014. ASP Tech, who undertook the initial sedimentation study, was subsequently appointed by Lyners to conduct a Verification Study to evaluate, among other factors, the appropriateness of the original intake structure in light of the updated bathymetry survey. The resulting report is provided as Appendix G6. During the verification study on the riverbed topography a significant rock outcrop upstream of the proposed intake structure was identified. As a result, it was determined that the outcrop would need to be removed, and the intake structure enlarged beyond the dimensions proposed in the 2014 – 2016 feasibility study to ensure effective operation.

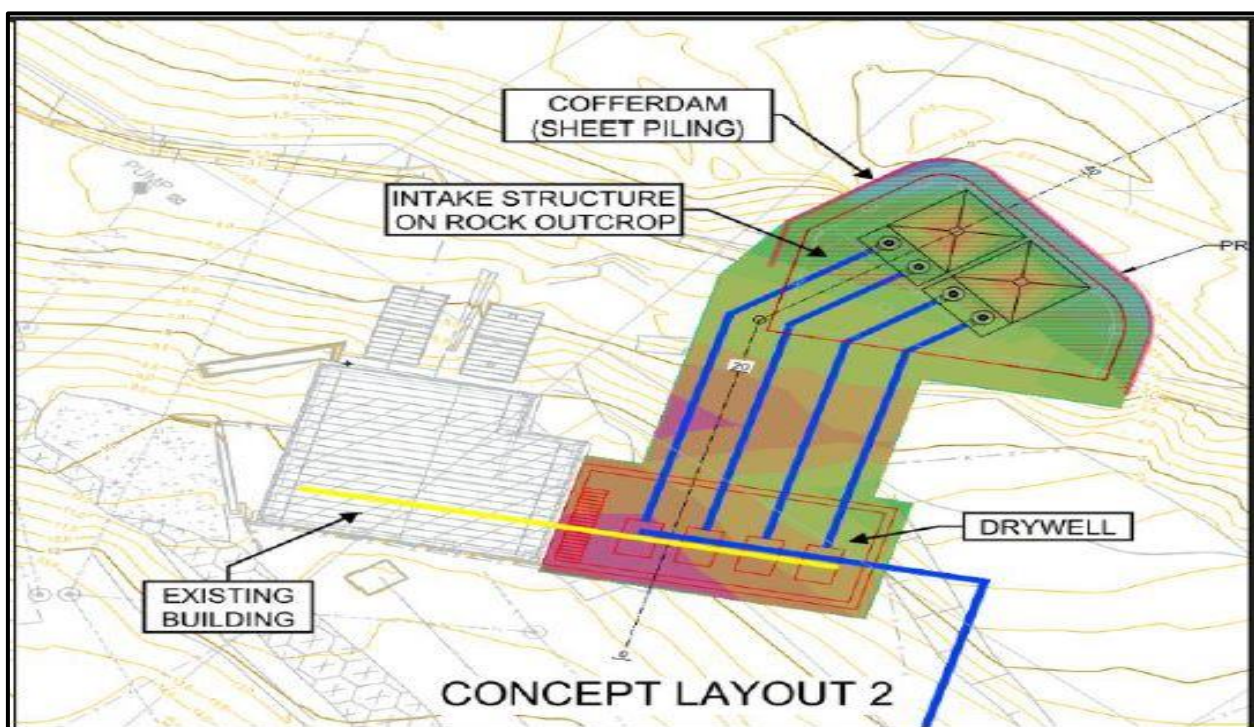
An alternative solution involves relocating the intake structure directly onto the rock outcrop, which presents several technical and economic advantages:

- Improved Foundation Conditions: Relocating the intake would result in more favourable geotechnical conditions, potentially yielding a cost saving of approximately R1.7 million.
- Operational Continuity: By situating the intake upstream at the rock outcrop, it may be possible to maintain operation of the existing pump station throughout the construction period.
- Minimal Disruption to Adjacent Infrastructure: The nearby farmers' pump station, located just downstream of the existing station, would remain unaffected.

Should the existing pump station remain operational during construction, an estimated cost saving of approximately R24.5 million could be realized over the 18-month construction period by avoiding the need to purchase water from the Wolwedans Dam and the associated saving in chemicals at the water treatment works.

A new dry well pump station could be constructed at an estimated cost of approximately R2.4 million. This facility would enable continuous operation of the existing pump station with minimal interruption of the water abstraction during the construction phase. An additional benefit of constructing a permanent dry well is that it would allow the end-suction pumps to be installed at a lower elevation. This could possibly eliminate the requirement for immersible pumps within the intake structure in the future and enable the use of foot valves in combination with a priming system. A new dry well will also provide additional space for the installation of the proposed electrical equipment as the existing MCC room is very small.

Based on the abovementioned, Option 3 (wetwell on rock outcrop with drywell next to pump station, Concept Layout 2) is recommended for implementation for the Moordkuil Pump Station upgrade, as it offers the lowest capital and operational costs, best operational reliability, and acceptable environmental impact.



**Figure 3: Option 3 – Concept Layout 2.**

To maximise the value of existing assets, a phased approach should be adopted:

- Phase 1: Utilisation of existing immersible and end-suction pumps that was bought based on the previous (2014 – 2016) investigation.
- Phase 2: Replacement of the immersible pumps with foot valves and installing larger single stage end suction pumps in the drywell. The detailed considerations for this system, such as the operation of the foot valves and the suction pipework priming, will be included in the detailed design report.

The hydraulic design ensures the intake structure is self-scouring and resilient to sediment deposition. The civil design provides for robust, flood-resistant structures, with careful integration of new and existing facilities to maintain operational continuity during construction.

The mechanical design supports both current and future pump configurations, with appropriate safety margins for motor sizing and lifting equipment.

The electrical design requires upgrading of the transformer and cabling to accommodate increased power demand, with a focus on direct online (DOL) drives for reliability and ease of maintenance.

The control system will be kept as simple as possible, with automated protection, measurement, and reporting. Remote monitoring will be implemented for real-time status updates, but remote control will not be enabled, as per client requirements.

**Site Camps:**

Three alternative site camp locations are also proposed, however based on the specialist assessments it was determined that site camp option 3 is the only feasible option. Please refer to Figures 4-8 showing the proposed services layout, the working area and site camps, and Google Earth Imagery of the construction footprint.

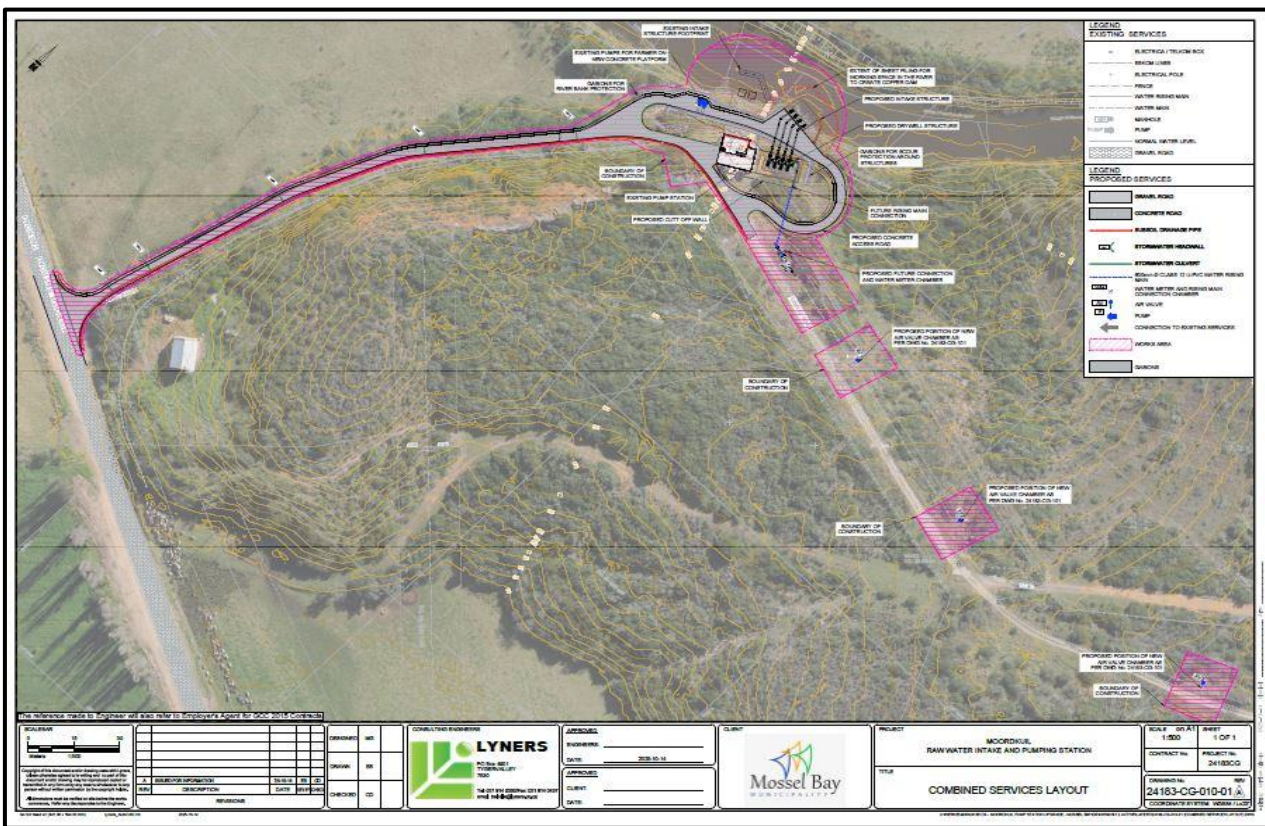


Figure 4: Proposed Services Layout.

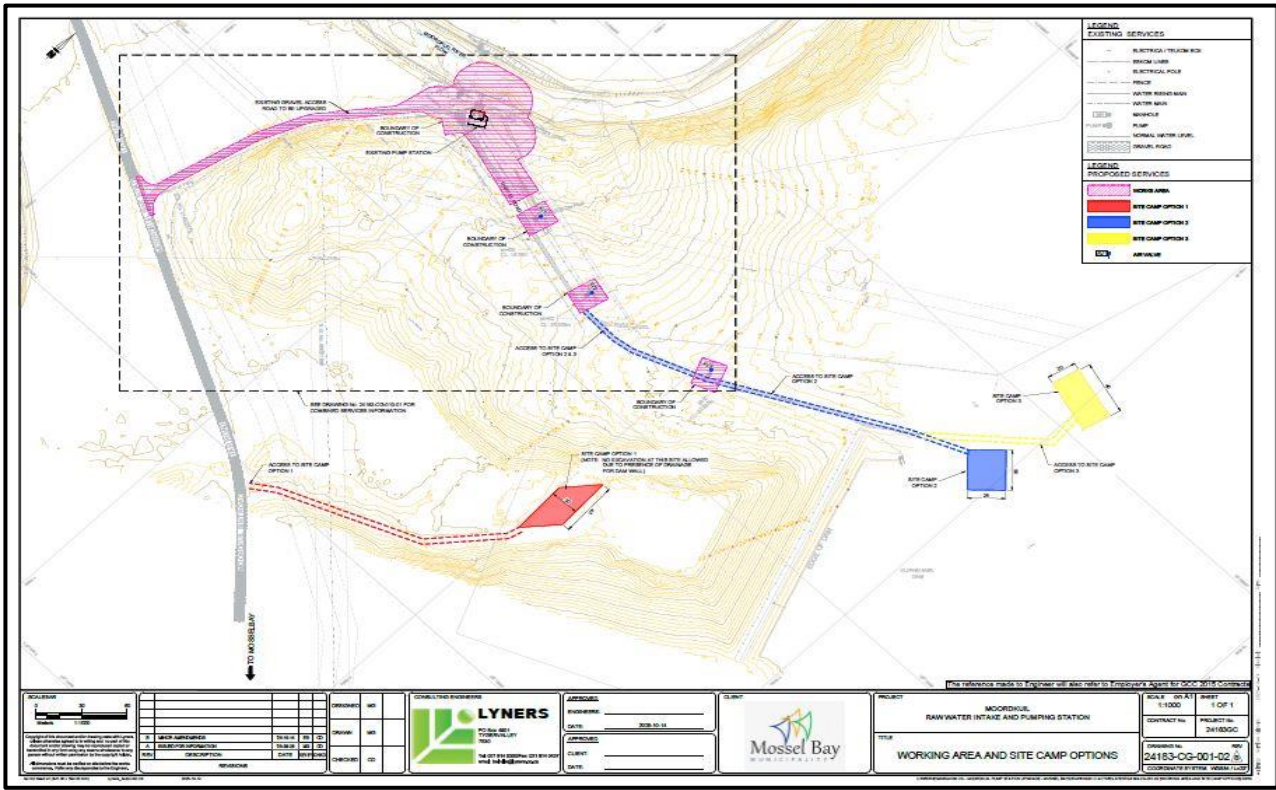


Figure 5: Working Area and Site Camp Locations Layout.

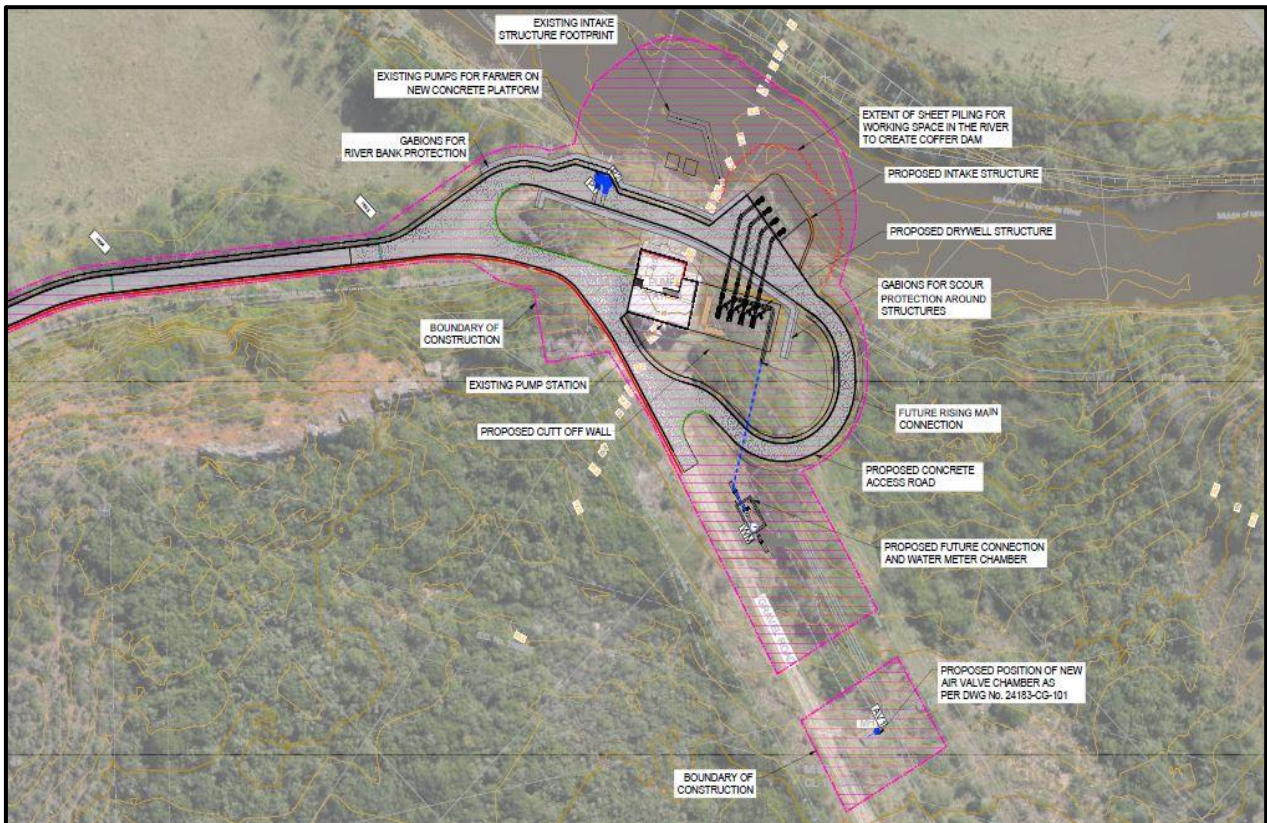


Figure 6: Proposed Upgrades to the Moordkuil Pump Station.

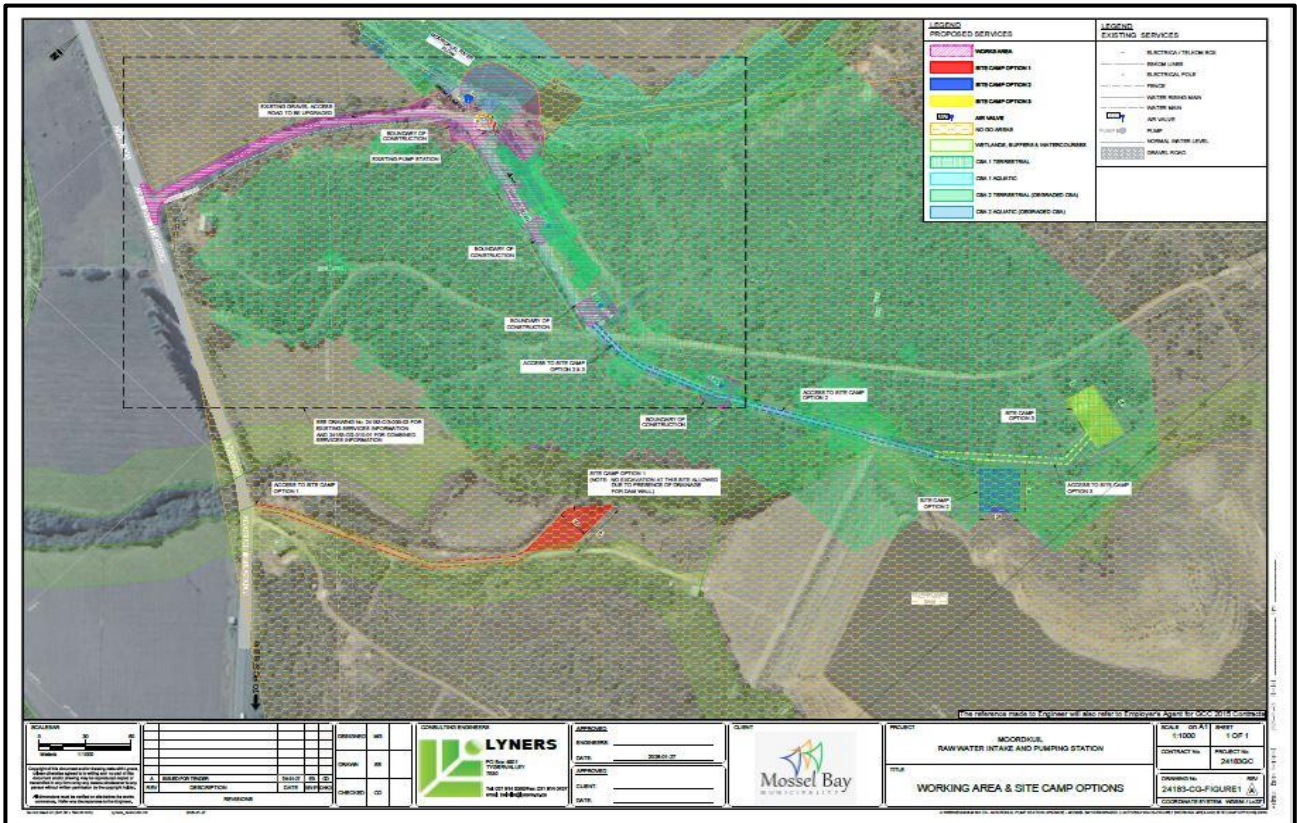


Figure 7: Working Area and Site Camp Locations Layout with all of the Available Biodiversity Information.

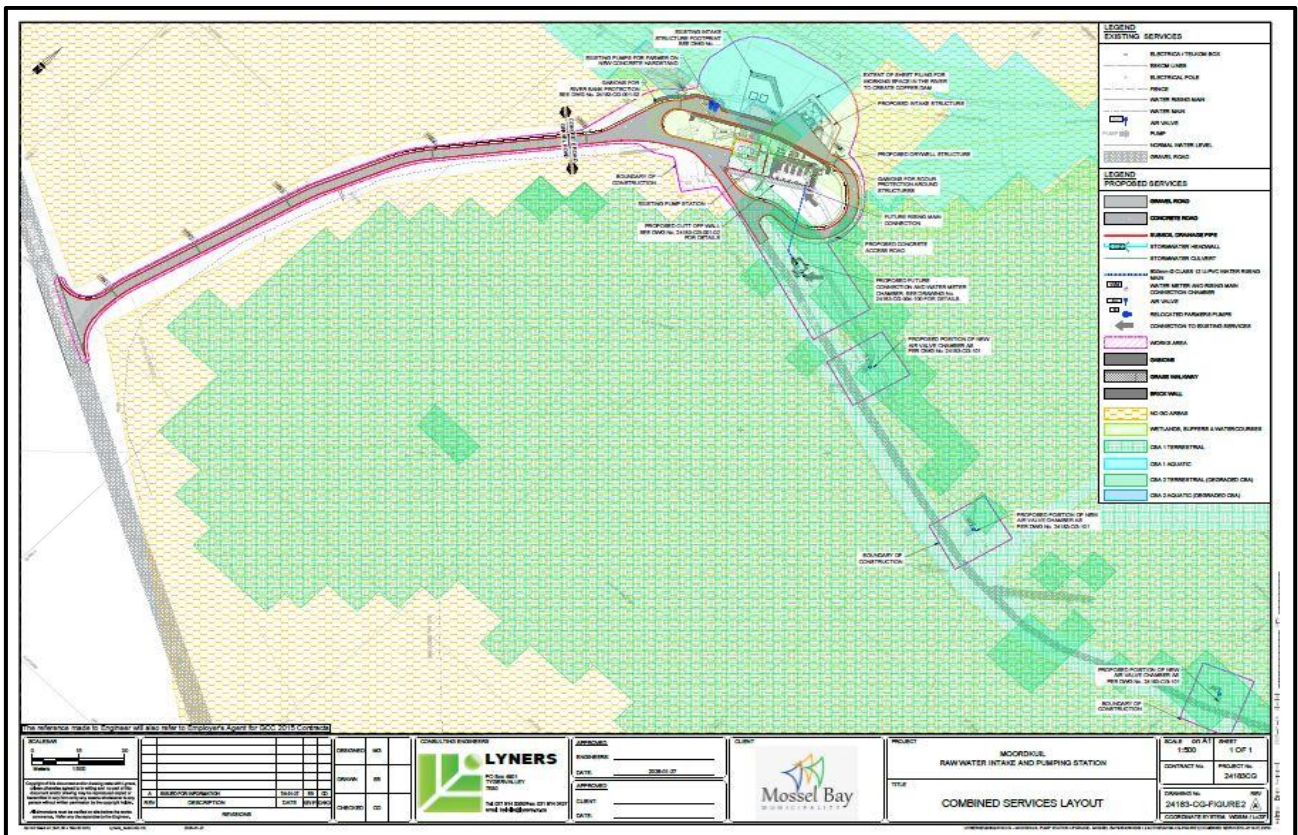


Figure 8: Final Preferred Layout Map showing the Proposed Upgrades to the Moordkuil Pump Station, with all of the Available Biodiversity Information.

### **3. FINDINGS OF THE SCREENING TOOL**

The National Sector Classification Category selected to produce the Screening Tool Reports, dated 09 June 2026 attached to this report:

#### **1. Any activities within or close to a watercourse**

#### **3.1 Wind and Solar Developments**

No	EIA Reference No	Classification	Status of application	Distance from proposed area (km)
1	14/12/16/3/3/1/1292	Solar PV	Approved	28.2
2	12/12/20/2536/AM3	Wind	Approved	12.5
3	12/12/20/2536	Wind	Approved	12.5
4	12/12/20/2536/AM4	Wind	Approved	12.5
5	14/12/16/3/3/1/1292/AM1	Solar PV	Approved	28.2
6	12/12/20/1815/1	Wind	Approved	23.7

No	EIA Reference No	Classification	Status of application	Distance from proposed area (km)
1	14/12/16/3/3/1/1292	Solar PV	Approved	27.9
2	12/12/20/2536/AM3	Wind	Approved	12.8
3	12/12/20/2536	Wind	Approved	12.8
4	12/12/20/2536/AM4	Wind	Approved	12.8
5	14/12/16/3/3/1/1292/AM1	Solar PV	Approved	27.9
6	12/12/20/1815/1	Wind	Approved	24.1

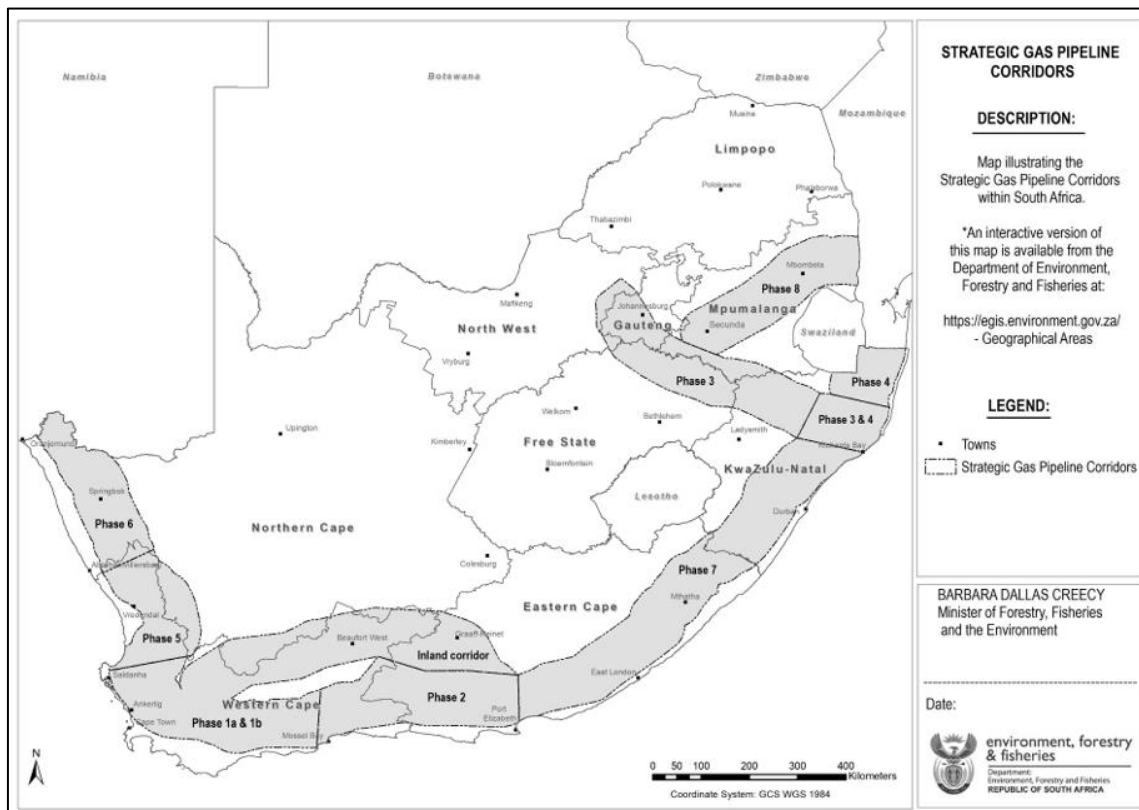
#### **3.2 Environmental Management Frameworks**

No intersections with EMF areas found.

#### **3.3 Relevant development incentives, restrictions, exclusions, or prohibitions**

- Strategic Gas Pipeline Corridors-

The site is located within the Strategic Gas Pipeline Corridors-Phase 2: Mossel Bay to Coega. The proposed upgrades to the Moordkuil Pump Station will not impact on the gas pipeline corridor.



**Figure 9: Strategic Gas Corridors of South Africa.**

- Main Electricity Distribution Substation-

The site is located within the specific radius of a main electricity transmission or distribution substation however, the application is not for a renewable energy facility and the proposed upgrades to the Moordkuil Pump Station will not impact the main electricity transmission or distribution substation.

- South African Conservation Areas:

The Screening Tool Indicates that the South African Conservation Areas data set is applicable, however the site is not located within a conservation area or protected area according to the latest shapefile from the South African Conservation Areas Database.

### 3.4 Area Environmental Sensitivity

The following summary of the development footprint environmental sensitivities is identified by the two screening tool reports. The footprint environmental sensitivities for the proposed development footprint as identified by the screening tool report, are indicative only and must be verified on site by a suitably qualified person before the specialist assessments identified below can be confirmed.

**Table 1: Site sensitivity and features**

Theme	Sensitivity				Features
	Very High	High	Medium	Low	
<b>Agriculture</b>	X				<b>Very High</b> <ul style="list-style-type: none"> <li>Herbertsdale-Gouritsmond PAA</li> </ul>
<b>Animal Species</b>		X			<b>High</b> <ul style="list-style-type: none"> <li><i>Aves-Hydroprogne caspia</i></li> <li><i>Aves-Bradypterus sylvaticus</i></li> <li><i>Aves-Polemaetus bellicosus</i></li> <li><i>Aves-Circus ranivorus</i></li> <li><i>Aves-Neotis denhami</i></li> <li><i>Aves-Pelecanus onocrotalus</i></li> </ul>
<b>Aquatic Biodiversity</b>	X				<b>Very High:</b> <ul style="list-style-type: none"> <li>CBA: River</li> <li>Estuary</li> <li>Rivers</li> <li>Estuary_Klein Brak</li> <li>CBA: Estuary</li> </ul>
<b>Archaeological, Cultural Heritage</b>				X	<b>Low sensitivity</b>
<b>Civil Aviation</b>		X			<b>High:</b> <ul style="list-style-type: none"> <li>Within 8 km of other civil aviation aerodrome</li> </ul>
<b>Defence</b>				X	<b>Low sensitivity</b>
<b>Palaeontology</b>	X				<b>Very High:</b> <ul style="list-style-type: none"> <li>Features with a Very High paleontological sensitivity</li> </ul>
<b>Plant Species</b>			X		<b>High:</b> <ul style="list-style-type: none"> <li><i>Polygala pubiflora</i></li> </ul>
<b>Terrestrial Biodiversity</b>	X				<b>Very High:</b> <ul style="list-style-type: none"> <li>CBA2: Terrestrial</li> <li>CBA : Terrestrial</li> <li>CR_Garden Route Granite Fynbos</li> <li>CR_Groot Brak Dune Strandveld</li> </ul>

### 3.5 Specialist assessments identified

Based on the selected classification, and the environmental sensitivities of the proposed development footprint, the following list of specialist assessments have been identified for inclusion in the assessment report. It is the responsibility of the EAP to confirm this list and to motivate in the assessment report, the reason for not including any of the identified specialist study including the provision of photographic evidence of the footprint situation.

**Table 2: Screening Tool Recommended Specialist Studies - Any activities within or close to a watercourse**

<b>No.</b>	<b>Specialist Assessment</b>	<b>Assessment Protocol</b>
1.	Landscape/Visual Impact Assessment	General
2.	Archaeological and Cultural Heritage Impact Assessment	General
3.	Palaeontology Impact Assessment	General
4.	Terrestrial Biodiversity Impact Assessment	Terrestrial
5.	Aquatic Biodiversity Impact Assessment	Aquatic
6.	Hydrology Assessment	General
7.	Socio-Economic Assessment	General
8.	Plant Species Assessment	Terrestrial Plant Species
9.	Animal Species Assessment	Animal

## **4. SITE VERIFICATION**

A site inspection was undertaken on the 28<sup>th</sup> of February 2025 and the 2<sup>nd</sup> of April 2025 by Mr. Michael Bennett (EAP) and Mr. Christiaan Smit (Candidate EAP). The existing infrastructure as well as the areas where the proposed upgrades will occur was inspected and photographed on site.



**Figure 10: Southern view of the existing Moordkuil Pump Station (28 February 2025).**



**Figure 11: View of the Moordkuil River from the Moordkuil Pump Station (28 February 2025).**



**Figure 12: Area where new drywell and intake structure will be constructed (28 February 2025).**



**Figure 13: Access road, area where water meter chamber will be installed, and area where cement access road to the pump station will be installed (28 February 2025).**



**Figure 14: Access road, area where water meter chamber will be installed, and area where cement access road to the pump station will be installed (28 February 2025).**



**Figure 15: Access road and area where valve chamber will be installed (28 February 2025).**



**Figure 16: Area where valve chamber will be installed (28 February 2025).**



**Figure 17: Access road to site camp and Klipheuvel Dam (28 February 2025).**



**Figure 18: Road where a new cement access road will be installed (28 February 2025).**



**Figure 19: Road where a new cement access road will be installed (28 February 2025).**



**Figure 20: Possible site camp location (2 April 2025).**



**Figure 21: Possible site camp location (2 April 2025).**



**Figure 22: Possible site camp location (2 April 2025).**

The identified specialist assessments are discussed with the observations made during the site visit.

#### **4.1 Agricultural Impact Assessment**

The agricultural theme was rated as **Very High** by the screening tool report since the site has mapped agricultural features. An agricultural specialist was appointed to compile a report and the agricultural specialist has verified the actual sensitivity of the site as being of **Low to Medium** agricultural sensitivity. Please refer to Appendix G5 of the Draft BAR for the Site Sensitivity Verification and Agricultural Compliance Statement.

#### **4.2 Landscape/Visual Impact Assessment**

We disagree with the Screening Tool's indication that a Visual/ Landscape Assessment is required. The proposed activities comprise the upgrading of an existing pump station, with the majority of the upgrades occurring within the current facilities footprint.

No new above-ground structures of visual significance will be introduced, and the project will not alter the existing landscape character, which is already defined by the existing pump station and other infrastructure. As such, the proposed development will not result in any change to the visual integrity, sense of place, or landscape quality of the area. A Visual Impact Assessment is therefore not warranted.

#### **4.3 Archaeological and Cultural Heritage**

A Notice of Intent to Develop (NID) was compiled and submitted to Heritage Western Cape, Heritage Western Cape (HWC) has confirmed "there is no reason to believe that the proposed upgrade of the raw abstraction works and pumpstation on Farm 143 Portions 15; 24; 25, Klipheuvell, Moordkuil Raw Water Extraction Works and Pump Station, Klein Brak River will impact on heritage resources, no further action under Section 38 of the National Heritage Resources Act (Act 25 of 1999) is required.". Please refer to Appendix G7 of the Draft BAR for the NID and Appendix E1 of the Draft BAR for the Record of Decision from HWC.

#### **4.4 Palaeontology Impact Assessment**

The palaeontology theme was rated as **Very High** by the screening tool report since the site has mapped palaeontology features. A specialist was appointed and verified the true paleosensitivity of the site to be **Low**. Please refer to Appendix G4 of the Draft BAR for the Palaeontological Impact Assessment Exemption Letter.

#### **4.5 Terrestrial Biodiversity Impact Assessment**

The screening tool rated this sensitivity as **Very High** due to the ecological threat status and the vegetation types in which the site is located. The site is mapped as Garden Route Granite Fynbos which has an Ecological Threat Status of Critically Endangered; and Grootbrak Dune Strandveld which also has an Ecological Threat Status of Critically Endangered. A specialist was appointed to compile a report, and verified the site sensitivity to be **Low**. Please refer to Appendix G3 of the Draft BAR for the Terrestrial Biodiversity, Terrestrial Faunal and Avifaunal Compliance Statement Report.

#### **4.6 Aquatic Biodiversity**

The aquatic biodiversity theme was rated as **Very High** by the screening tool report since the property has mapped aquatic features. A specialist was appointed to compile a report, and verified the site as sensitive and therefore required a full Aquatic Impact Assessment. Please refer to Appendix G1 of the Draft BAR for the Aquatic Impact Assessment.

#### 4.7 Hydrology Impact Assessment

The screening tool report recommended that a Hydrology Assessment be conducted. We do not believe that it is required or that it will add any value to the Basic Assessment Report due to the hydrological and hydraulic considerations associated with the proposed development that were assessed through the detailed engineering design process. A specialist hydraulic engineering study titled 'Review of the Proposed Hydraulic Design of the Intake Works with 2D Hydrodynamic Modelling of Scour/Deposition and 3D CFD Modelling of Hydraulic Forces' was undertaken and is included in the Draft BAR in Appendix G6 of the Draft BAR (Concept and Viability Design Report). This study assessed flow dynamics, hydraulic forces, scour potential, sediment transport processes and the interaction between the proposed infrastructure and the river system. The findings of this study informed the final engineering design of the proposed abstraction works. In addition an Aquatic Impact Assessment was undertaken and is included in the Draft BAR (Appendix G1 – Aquatic Impact Assessment), therefore the hydrological, hydraulic and aquatic environmental considerations were already assessed through the engineering design investigations and specialist assessments and a new Hydrology Impact Assessment is not warranted.

#### 4.8 Socio-Economic Assessment

We disagree that a Socio-Economic Impact Assessment is required. The proposed upgrades to the Moordkuil Pump Station will not alter land use, restrict access, displace communities, or affect livelihoods. Construction is short-term and small in scale, and socio-economic conditions will remain unchanged. No specialist socio-economic study is warranted.

#### 4.9 Civil Aviation Assessment

The screening tool report indicated a **High** sensitivity rating for this theme. However, the proposed works involve upgrades to an existing pump station. No tall structures, masts, cranes, or aviation-obstructive infrastructure will be introduced. Therefore, no civil aviation impacts are expected and the EAP (Mr Michael Bennett) verifies the site as being of **Low** sensitivity for this theme. In accordance with the Protocol for the Specialist Assessment and Minimum Report Content Requirements for Environmental Impacts on Civil Aviation Installations published under Government Notice No. 320 of 20 March 2020, "1.1.2. on a site where the information gathered from the site sensitivity verification differs from the designation of "very high", "high" or "medium" sensitivity on the screening tool and it is found to be of a "low" sensitivity, no further assessment requirements are identified". The SACAA Authority was informed of the project during the previous application process, and it was determined that the SACAA has no comments on the proposed upgrading of the Moordkuil Pump Station. SACAA will be included in the I&AP Register during the Draft BAR Public Participation Process and confirmation of their previous comments will be obtained.

#### 4.10 Defence

The rating for this theme was low – no study will be conducted.

#### 4.11 Plant Species

The plant species theme has a **High** sensitivity rating for the site. A specialist was appointed to compile a report, and determined one can argue that the ratings should be lower for certain areas of the site. Given the transformed or degraded state of the vegetation, the impact on terrestrial biodiversity and plant species is of **Medium-Low** significance, prior to mitigation. With mitigation, this impact can be lowered further. It is therefore recommended that the proposed project be considered for approval, but subject to the proposed mitigation measures listed in the specialists' report. Please refer to Appendix G2 of the Draft BAR for the Botanical Impact Assessment.

#### 4.12 Animal Species

The animal species theme has a **High** sensitivity rating for the site. A specialist was appointed to compile a report, and verified the site as **Low** sensitivity for this theme. Please refer to Appendix G3 of the Draft BAR for the Terrestrial Biodiversity, Terrestrial Faunal and Avifaunal Compliance Statement Report.

### 5. SENSITIVITY VERIFICATION

Theme	Screening Tool Sensitivity	Actual Sensitivity	Verification
<b>Agriculture</b>	<b>Very High</b>	<b>Low-Medium</b>	According to the Site Sensitivity Verification and Compliance Statement compiled by SoilZA, the actual sensitivity of the site is verified as being <b>Low-Medium</b> (refer to Appendix G5 of the Draft BAR)
<b>Animal Species</b>	<b>High</b>	<b>Low</b>	According to the Terrestrial Biodiversity, Terrestrial Faunal and Avifaunal Species Compliance Statement Report compiled by Blue Skies Research, the actual sensitivity of the site is verified as being <b>Low</b> (Refer to Appendix G3 of the Draft BAR).
<b>Aquatic Biodiversity</b>	<b>Very High</b>	<b>Very High</b>	According to the aquatic specialist from Upstream Consulting the site is regarded as sensitive and therefore required a full Aquatic Impact Assessment. Please refer to Appendix G1 of the Draft BAR for the Aquatic Impact Assessment.
<b>Archaeological, Cultural Heritage</b>	<b>Low</b>	<b>Low</b>	A Notice of Intent to Develop (NID) was compiled and submitted to Heritage Western Cape, Heritage Western Cape (HWC) has confirmed "there is no reason to believe that the proposed upgrade of the raw abstraction works and pumpstation on Farm 143 Portions 15; 24; 25, Klipheuvcl, Moordkuil Raw Water Extraction Works and Pump Station, Klein Brak River will impact on heritage resources, no further action under Section 38 of the National Heritage Resources Act (Act 25 of 1999) is required.". Please refer to Appendix G7 of the Draft BAR for the NID and Appendix E1 of the Draft BAR for the Record of Decision from HWC.
<b>Civil Aviation</b>	<b>High</b>	<b>Low</b>	the proposed works involve upgrades to an existing pump station. No tall

			structures, masts, cranes, or aviation-obstructive infrastructure will be introduced. Therefore, no civil aviation impacts are expected and the EAP (Mr Michael Bennett) verifies the site as being of <b>Low</b> sensitivity for this theme. In accordance with the Protocol for the Specialist Assessment and Minimum Report Content Requirements for Environmental Impacts on Civil Aviation Installations published under Government Notice No. 320 of 20 March 2020, "1.1.2. on a site where the information gathered from the site sensitivity verification differs from the designation of "very high", "high" or "medium" sensitivity on the screening tool and it is found to be of a "low" sensitivity, no further assessment requirements are identified". The SACAA Authority was informed of the project during the previous application process, and it was determined that the SACAA has no comments on the proposed upgrading of the Moordkuil Pump Station. SACAA will be included in the I&AP Register during the Draft BAR Public Participation Process and confirmation of their previous comments will be obtained.
<b>Defence</b>	<b>Low</b>	<b>Low</b>	No further action required.
<b>Palaeontology</b>	<b>Very High</b>	<b>Low</b>	<p>A Notice of Intent to Develop (NID) was compiled and submitted to Heritage Western Cape, Heritage Western Cape (HWC) has confirmed "there is no reason to believe that the proposed upgrade of the raw abstraction works and pumpstation on Farm 143 Portions 15; 24; 25, Klipheuveld, Moordkuil Raw Water Extraction Works and Pump Station, Klein Brak River will impact on heritage resources, no further action under Section 38 of the National Heritage Resources Act (Act 25 of 1999) is required.". Please refer to Appendix G7 of the Draft BAR for the NID and Appendix E1 of the Draft BAR for the Record of Decision from HWC.</p> <p>In addition, a specialist was appointed and verified the true paleosensitivity of the site to be <b>Low</b>. Please refer to Appendix G4 of the Draft BAR for the</p>

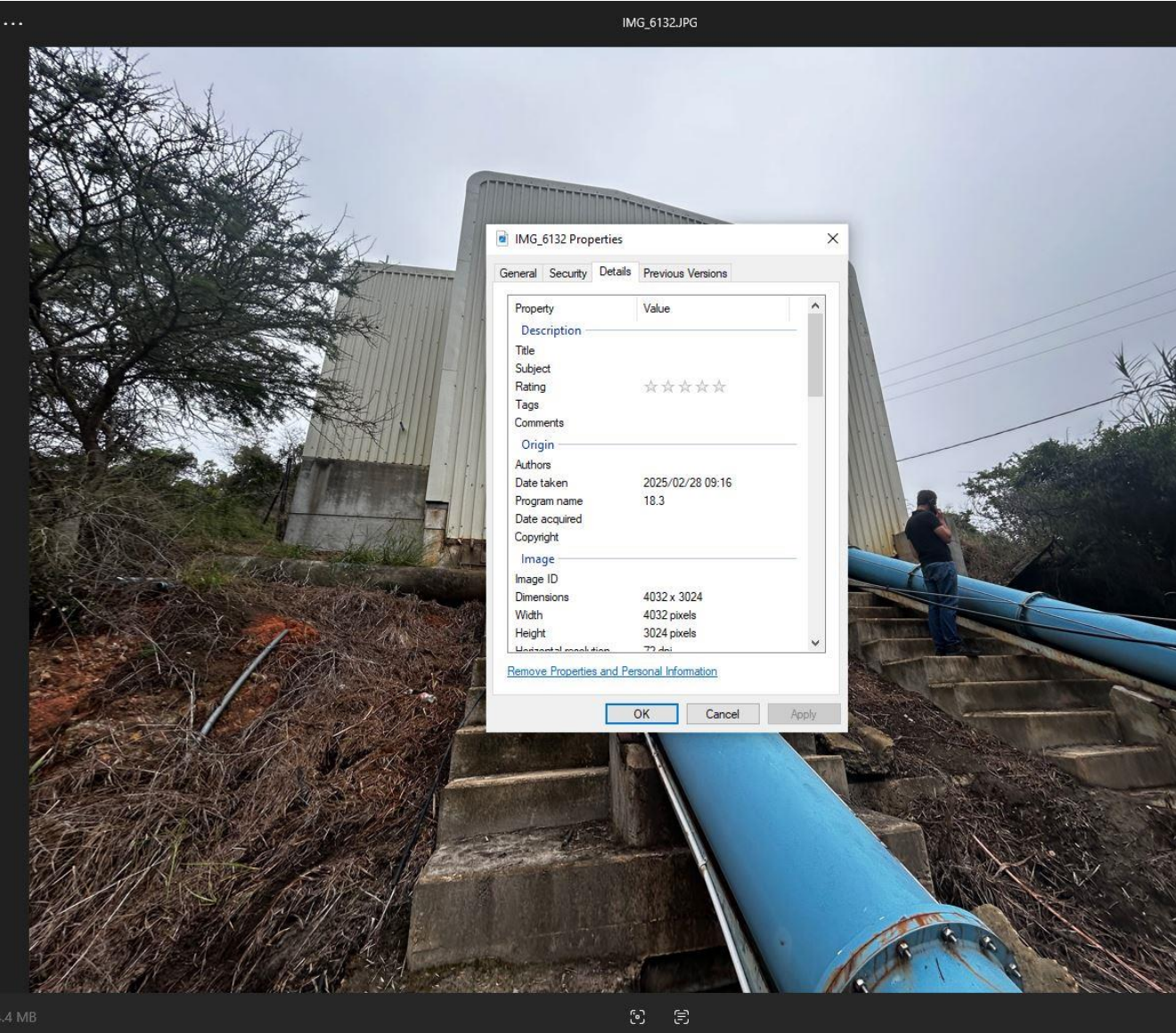
			Palaeontological Impact Assessment Exemption Letter.
<b>Plant Species</b>	<b>High</b>	<b>High – Medium to Low (Site Sensitivity varies across the site as per the specialist's report)</b>	MB Botanical Surveys was appointed to compile a report, and determined one can argue that the ratings should be lower for certain areas of the site. Given the transformed or degraded state of the vegetation, the impact on terrestrial biodiversity and plant species is of medium-low significance, prior to mitigation. With mitigation, this impact can be lowered further. It is therefore recommended that the proposed project be considered for approval, but subject to the proposed mitigation measures listed in the specialists' report. Please refer to Appendix G2 of the Draft BAR for the Botanical Impact Assessment.
<b>Terrestrial Biodiversity</b>	<b>Very High</b>	<b>Low</b>	Blue Skies Research was appointed to compile a report, and verified the site sensitivity to be <b>Low</b> . Please refer to Appendix G3 of the Draft BAR for the Terrestrial Biodiversity, Terrestrial Faunal and Avifaunal Compliance Statement Report.

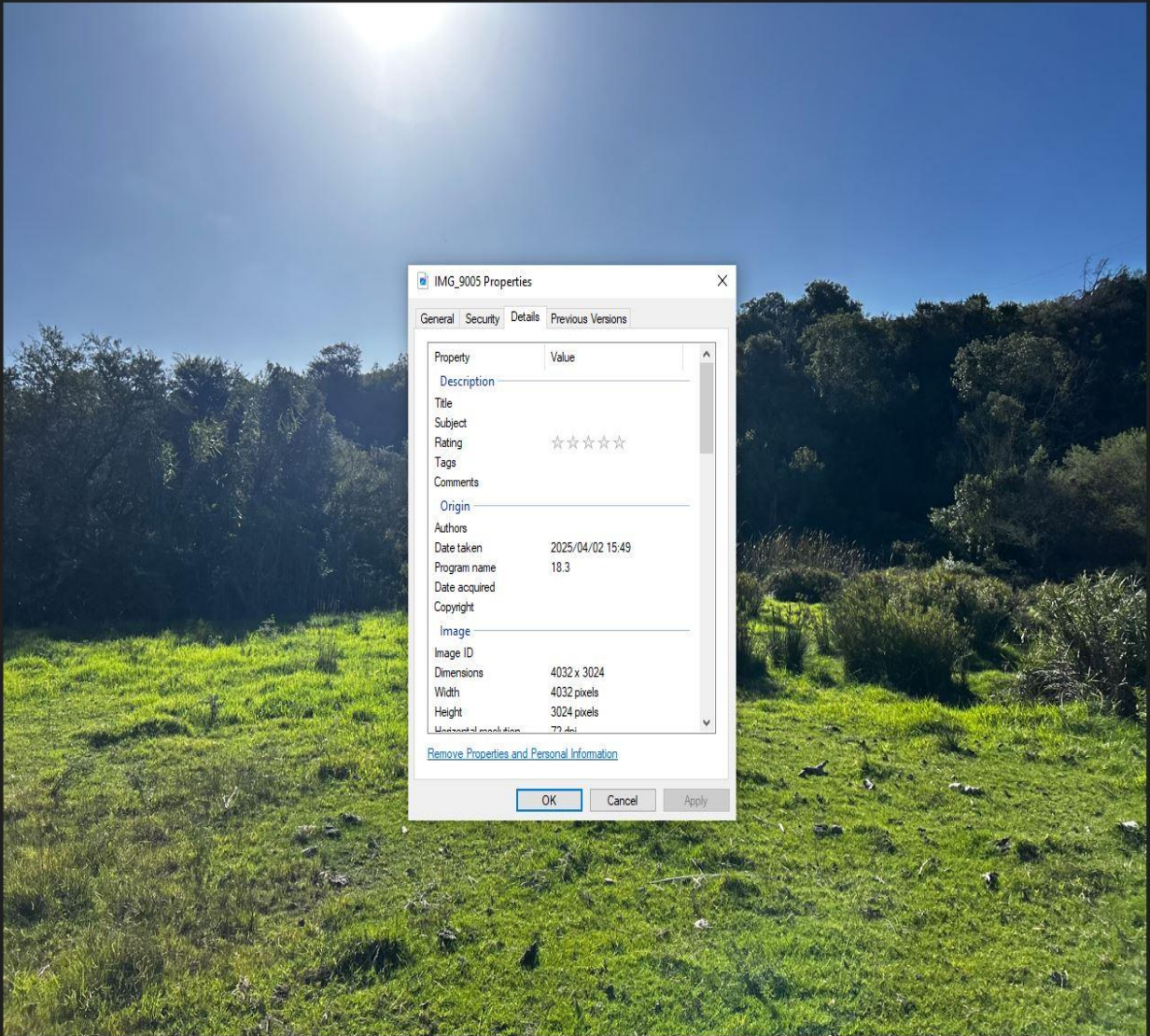
## **5. CONCLUSION**

From the findings of this report, SES proposes to only undertake the following assessments:

<b>No.</b>	<b>Specialist Assessment</b>	<b>Assessment Protocol</b>
1.	Agricultural Compliance Statement (See Appendix G5 of the Draft BAR)	Agriculture
2.	Palaeontology Exemption Letter (See Appendix G4 of the Draft BAR)	General
3.	HWC NID (See Appendix G7 of the Draft BAR)	General
4.	Terrestrial Biodiversity Compliance Statement (See Appendix G3 of the Draft BAR)	Terrestrial
5.	Aquatic Biodiversity Impact Assessment (See Appendix G1 of the Draft BAR)	Aquatic
6.	Plant Species Assessment (See Appendix G2 of the Draft BAR)	Terrestrial Plant Species
7.	Animal Species Compliance Statement (See Appendix G3 of the Draft BAR)	Terrestrial Animal Species

**APPENDIX 1: Proof of Site Photo Dates**





Property	Value
Description	
Title	
Subject	
Rating	☆☆☆☆☆
Tags	
Comments	
Origin	
Authors	
Date taken	2025/04/02 15:49
Program name	18.3
Date acquired	
Copyright	
Image	
Image ID	
Dimensions	4032 x 3024
Width	4032 pixels
Height	3024 pixels
Vertical resolution	72 dpi