



Submitted to: CMB.TECH Namibia (Pty) Ltd
Attention: Ms Liesbeth Verhaert
P.O Box 81588, Olympia
Windhoek
Namibia

BID:

PROPOSED GEOTECHNICAL FIELD WORK WITHIN DOROB AND NAMIB NAUKLUFT PARKS, ERONGO REGION, NAMIBIA

PROJECT NUMBER: ECC-145-660-BID-06-A

REPORT VERSION: REV 01

DATE: 29 SEPTEMBER 2025



TITLE AND APPROVAL PAGE

Project Name: Proposed Geotechnical Field Work within Dorob and Namib
Naukluft Parks, Erongo Region, Namibia

Client Company Name: CMB.TECH Namibia (Pty) Ltd

Client Name: Ms Liesbeth Verhaert

Ministry Reference: APP-006292

Authors: Kelly Ochs and Stephan Bezuidenhout

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ENVIRONMENTAL COMPLIANCE CONSULTANCY CONTACT DETAILS:

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ABBREVIATIONS

Abbreviation	Description
BID	background information document
Cleanergy Solutions Namibia	Cleanergy Solutions Namibia (Pty) Ltd
DEA	Directorate of Environmental Assessment
EAP	environmental assessment practitioner
ECC	Environmental Compliance Consultancy
EIA	environmental impact assessment
EMP	environmental management plan
ESIA	environmental and social impact assessment
H ₂	hydrogen
I&APs	interested and affected parties
km	kilometre
Ltd.	Limited
MEFT	Ministry of Environment, Forestry and Tourism
MME	Ministry of Mines and Energy
NH ₃	Ammonia
O&L Group	Ohlthaver & List Group
Pty	proprietary

1 BACKGROUND INFORMATION DOCUMENT

1.1 PURPOSE OF THIS DOCUMENT

Environmental Compliance Consultancy (Pty) Ltd (ECC) has been engaged by CMB.TECH Namibia (Pty) Ltd to prepare and submit a screening questionnaire and environmental and social management plan (ESMP) (Appendix A) in terms of the Environmental Management Act No.7 2007 and its Regulations. An environmental clearance certificate application was submitted to the Ministry of Environment, Forestry and Tourism (MEFT) on 21 August 2025 (Appendix B).

The purpose of this background information document (BID) is to provide MEFT with a background to the proposed geotechnical fieldwork to be conducted within the Dorob and Namib Naukluft National Park.

1.2 DESCRIPTION OF THE PROPOSED PROJECT

The proposed geotechnical field work and investigation encompass soil sampling along a ~112 km corridor at 1 km intervals within the Dorob and Namib-Naukluft National Parks between Arandis and the Walvis Bay North Port, Erongo Region.

The proposed activity triggers the listed activities as per the Environmental Management Act Regulations. The relevant activities list provided later in the BID.

1.3 PROJECT LOCATION

The proposed site to be assessed (**Error! Reference source not found.**) can be accessed via the B2, D1984 and C28 national and district roads. Figure 2 represents the soil map of the area.

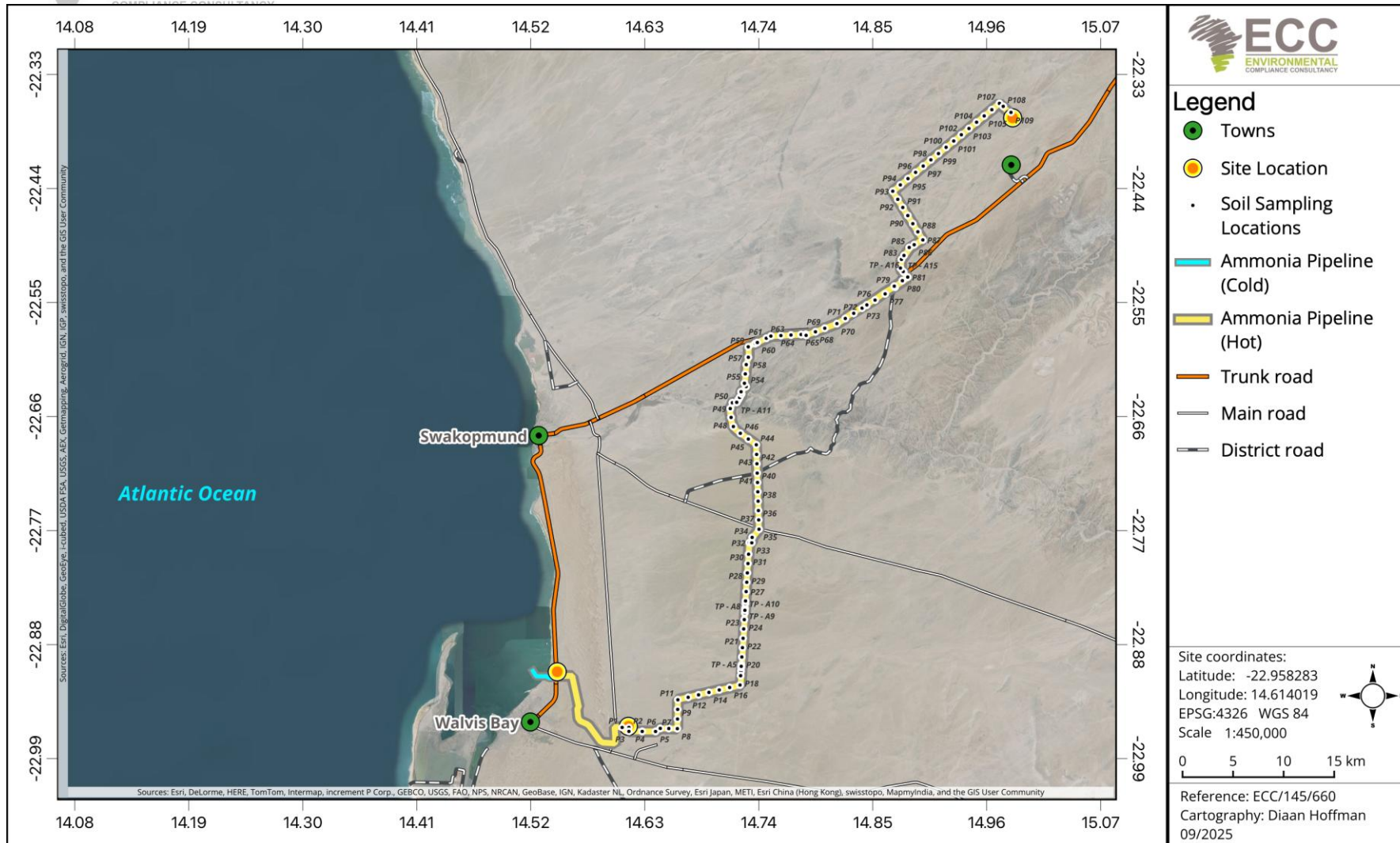


Figure 1- Locality of the proposed project

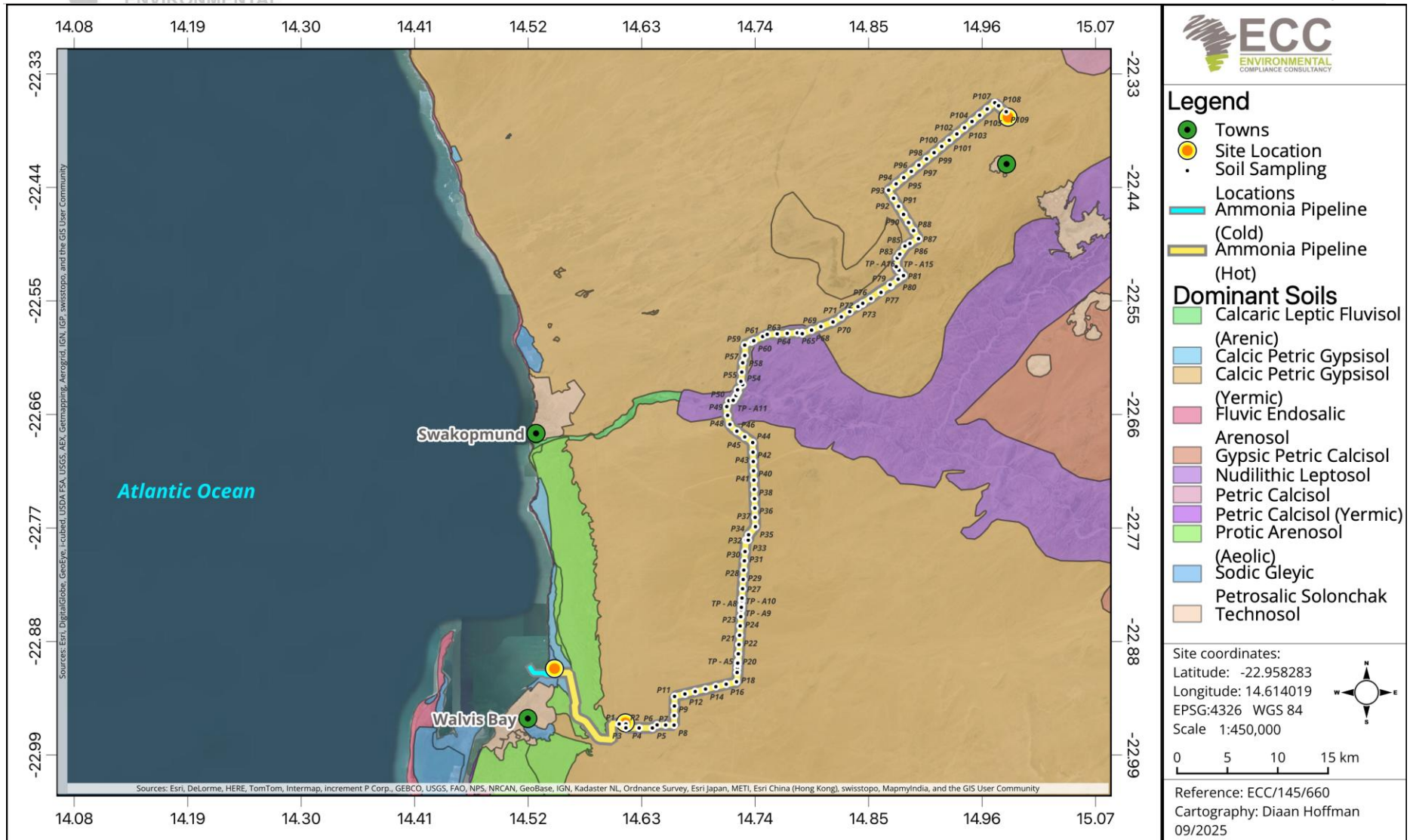


Figure 2 - Soil map of the proposed project

1.4 NEED FOR THE PROJECT

The need for the investigation is to define the physical and engineering properties of the soil material for the proposed proposed Ammonia Pipeline Project. A separate environmental and social impact assessment (ESIA) is currently being conducted for the Ammonia Pipeline Project. Test sites are created to investigate the soil type, bearing capacity, excavatability and rock depth. Samples will be extracted for laboratory testing, and the test sites will be closed after completion. The geophysical investigation will comprise of tests to investigate the soil and properties of 2 - 3 m below ground level. The investigation is expected to take ~5 weeks.

1.5 GEOTECHNICAL FIELDWORK

The proposed geotechnical fieldwork will include low-impact and non-intrusive activities. Geotechnical investigation involves two components, a test site investigation and geophysical investigation. Appendix A provides a spreadsheet of the coordinates of all sampling points.

The test site investigation involves:

- Approximately 120 tests sites by using a tractor loader backhoe (TLB) to a depth of 2 m below ground level; and
- Approximately 20 test sites by using a tracked excavator to a depth of 6 m below ground level.

The geophysical investigation includes:

- Ground penetrating radar conducted along the entire pipeline route; and
- Non-invasive and non-destructive MASW tests, conducted along the entire pipeline route.

2 THE ENVIRONMENTAL CLEARANCE CERTIFICATE PROCEDURE

The environmental clearance certificate application for the proposed project is being conducted by ECC and will be undertaken in terms of the Environmental Management Act, 2007 and its regulations. The process followed for this application is set out in the flowchart in Figure 3.

ECC has been contracted by CMB.TECH Namibia (Pty) Ltd, as the independent environmental assessment practitioner (EAP) to facilitate the application of the environmental clearance certificate, as the certificate is required in terms of the Environmental Management Act, 7 of 2007 and the associated EIA Regulations.

A final decision relating to the above-mentioned application will be made by Ministry of Environment, Forestry and Tourism (MEFT): Department of Environmental Affairs (DEA).

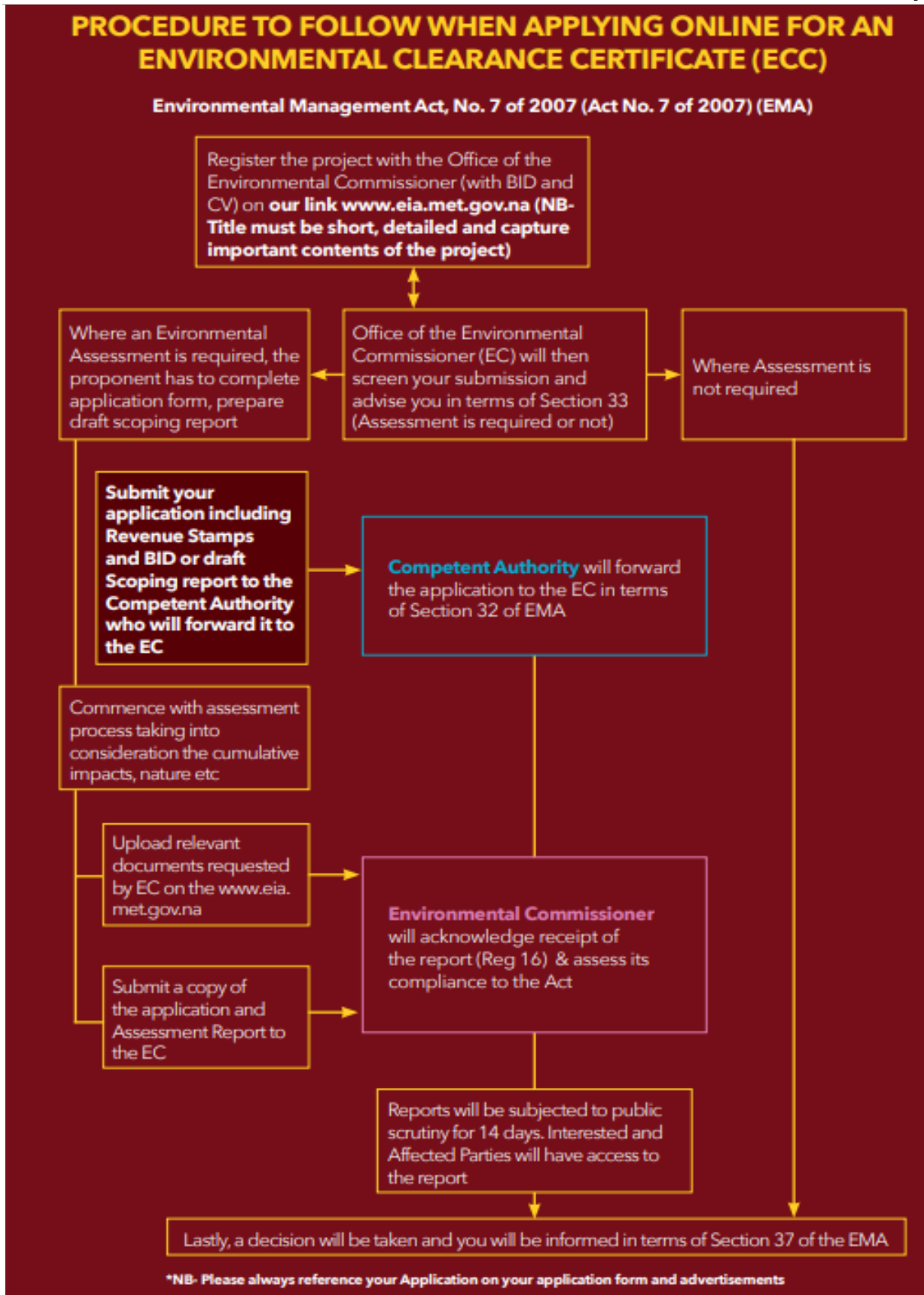


Figure 3 – Flowchart of the environmental clearance certificate procedure (Source: MEFT, DEA)

2.1 SCREENING

A review of the planned project was undertaken and the screening findings against the listed activities was conducted; the findings of which are summarised in Table 1.

Table 1- Listed activities triggered by the proposed project

LISTED ACTIVITY	EIA SCREENING FINDING
3. MINING AND QUARRYING ACTIVITIES 3.3) Resource extraction, manipulation, conservation and related activities.	– Soil sampling is proposed within Dorob and Namib-Naukluft National Park as 1 m intervals. – The geotechnical investigation includes 120 test sites at 2 m depth and 20 test sites at 6 m depth.

2.1.1 DRAFT ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN

An ESMP was developed for the proposed project setting out auditable management actions for the project to ensure careful and sustainable management measures are implemented for their activities in respect of the surrounding environment and community. The ESMP becomes the legally binding commitment upon approval of the EMP and issuing of the environmental clearance certificate. Environmental clearance certificates are issued for a period of 3 years and renewal is subject to compliance with the provisions and conditions of the environmental clearance certificate.

3 THE WAY FORWARD – PUBLIC PARTICIPATION

Public participation is an important part of the EIA process. It allows you, the public and stakeholders to raise concerns or provide valuable local environmental knowledge that can benefit the process further. At this phase ECC has performed the following:

- Prepared and submitted the application for the environmental clearance certificate in the prescribed manner
- Prepared a screening questionnaire with details of the Project
- Prepared a BID for the proposed with study area map and CVS document of the Project soil sampling coordinates
- An ESMP for the geotechnical investigation

The following was done for the Ammonia Pipeline Project for which the geotechnical investigation is for:

- Identified relevant key stakeholders, authorities, municipalities, environmental groups and interested or affected members of the public, referred to as I&APs
- Carried out a public consultation process in accordance with Regulation 21 of the EMA 2007 including:
 - o Distributed the BID for the proposed construction of the Ammonia Pipeline Project
 - o Advertised the environmental application and call for registration of I&AP's in two national newspapers
 - o Opened a I&AP register and record all comments of I&APs and present such comments, as well as responses provided by ECC, in the comments and responses report, which was included in the scoping report and ESIA
- Prepared an ESIA and provided report to registered I&APs for comment
- We intend to submit the ESIA and the I&AP comments to the competent authority and Environmental Commissioner for a record of decision

Your request for registration as an I&AP as well as any comments on the BID or Project must be submitted in writing and can be emailed using the details in the contact us section below. Registration as an I&AP for the project can be completed online on ECC's website on the projects page, or by using this link: <https://eccenvironmental.com/projects/>

Registration as an I&AP should be submitted on or before 15 October 2025.

We welcome any enquiries regarding this document and its content. Please contact:

Environmental Compliance Consultancy (ECC)

info@eccenvironmental.com

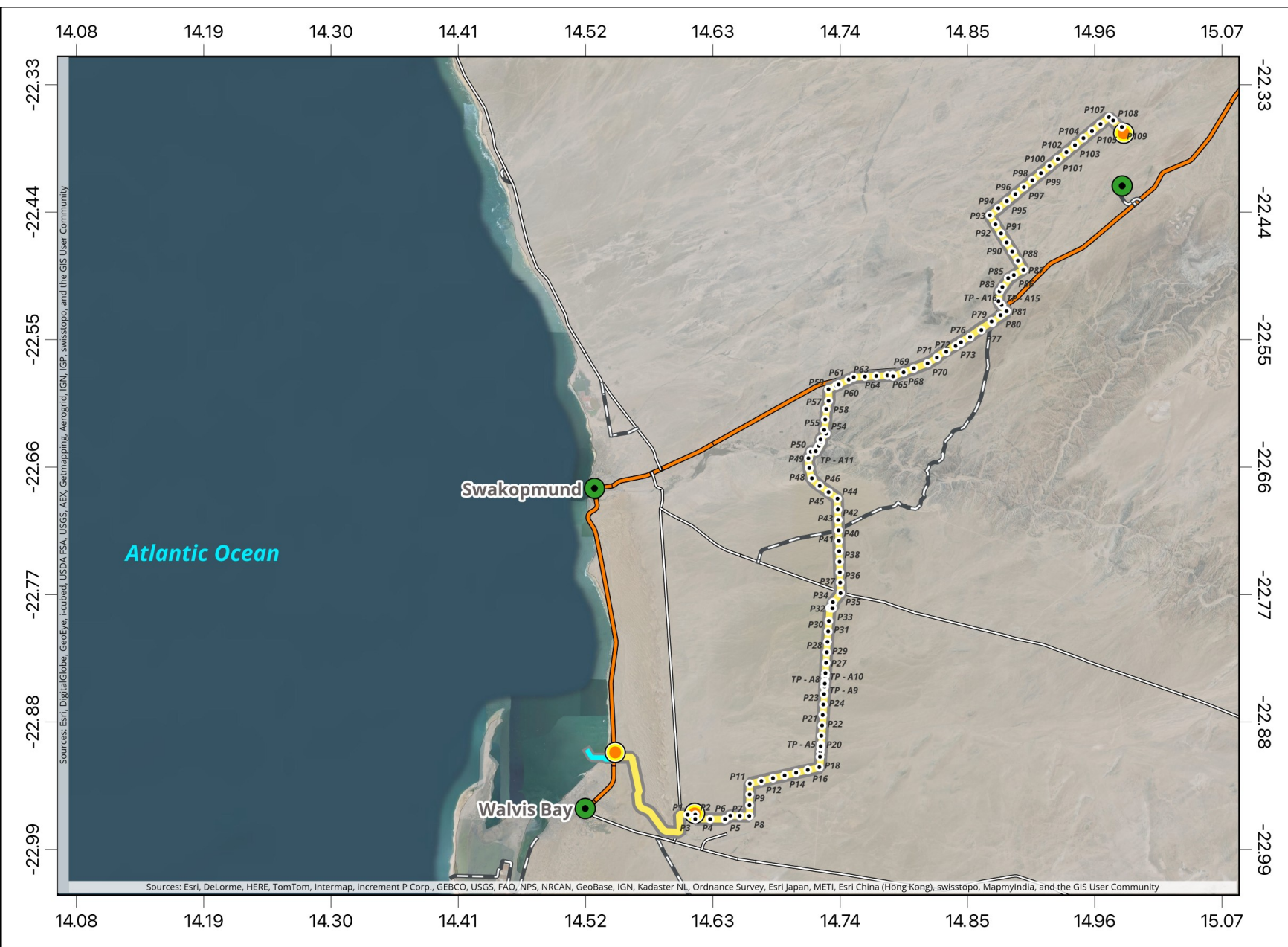
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At ECC we make sure all information is easily accessible to the public.

Follow our social pipes online to be kept up to date.

APPENDIX A – EXCEL SPREADSHEET OF COORDINATES OF EACH SAMPLING POINT



Legend

- Towns
- Site Location
- Soil Sampling Locations
- Ammonia Pipeline (Cold)
- Ammonia Pipeline (Hot)
- Trunk road
- Main road
- District road

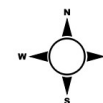
Site coordinates:

Latitude: -22.958283

Longitude: 14.614019

EPSG:4326 WGS 84

Scale 1:450,000



0 5 10 15 km

Reference: ECC/145/660

Cartography: Diaan Hoffman
09/2025

Name	Latitude	Longitude
TP - A5	-22.905418	14.722843
TP - A7	-22.89942	14.723231
TP - A6	-22.901876	14.723088
TP - A8	-22.849381	14.726495
TP - A9	-22.84499	14.726778
TP - A10	-22.840302	14.727098
TP - A11	-22.646154	14.718815
TP - A12	-22.643756	14.720209
TP - A13	-22.641538	14.721521
TP - A14	-22.589559	14.736571
TP - A15	-22.520545	14.879829
TP - A16	-22.52008	14.87945
P1	-22.959803	14.608197
P2	-22.959823	14.614728
P3	-22.963636	14.614713
P4	-22.963677	14.627563
P5	-22.963717	14.640413
P6	-22.960722	14.644985
P7	-22.960852	14.653213
P8	-22.960981	14.661441
P9	-22.951698	14.661595
P10	-22.942415	14.66175
P11	-22.933132	14.661904
P12	-22.930763	14.671909
P13	-22.928395	14.681913
P14	-22.926025	14.691918
P15	-22.923655	14.701921
P16	-22.921284	14.711925
P17	-22.918912	14.721928
P18	-22.909899	14.722518
P19	-22.900886	14.723109
P20	-22.891873	14.7237
P21	-22.88286	14.72429
P22	-22.873846	14.724881
P23	-22.864833	14.725471
P24	-22.85582	14.726061
P25	-22.846806	14.726651
P26	-22.837793	14.727241

P27	-22.82878	14.727831
P28	-22.819766	14.728421
P29	-22.810753	14.72901
P30	-22.80174	14.7296
P31	-22.792726	14.730189
P32	-22.78157	14.730919
P33	-22.781703	14.733304
P34	-22.776514	14.733643
P35	-22.76867	14.740257
P36	-22.759644	14.739967
P37	-22.750618	14.739677
P38	-22.741592	14.739388
P39	-22.732566	14.739098
P40	-22.72354	14.738808
P41	-22.714513	14.738518
P42	-22.705487	14.738229
P43	-22.696461	14.737939
P44	-22.687185	14.737655
P45	-22.681642	14.729953
P46	-22.676106	14.722265
P47	-22.669581	14.715509
P48	-22.660787	14.71329
P49	-22.652253	14.712501
P50	-22.646626	14.714544
P51	-22.646235	14.718757
P52	-22.638186	14.723467
P53	-22.636033	14.722945
P54	-22.631016	14.727859
P55	-22.627845	14.726176
P56	-22.61885	14.727037
P57	-22.609861	14.727933
P58	-22.602755	14.729967
P59	-22.592703	14.72989
P60	-22.588525	14.738669
P61	-22.584404	14.747322
P62	-22.582326	14.751685
P63	-22.581826	14.761394
P64	-22.581326	14.771103
P65	-22.580822	14.780838

P66	-22.580585	14.785457
P67	-22.581634	14.785723
P68	-22.578207	14.79472
P69	-22.574779	14.803716
P70	-22.570322	14.81541
P71	-22.565343	14.823522
P72	-22.560364	14.831633
P73	-22.555384	14.839744
P74	-22.552736	14.844057
P75	-22.552246	14.844321
P76	-22.547626	14.852243
P77	-22.541653	14.861982
P78	-22.535237	14.871519
P79	-22.53422	14.870787
P80	-22.528886	14.878631
P81	-22.525417	14.88378
P82	-22.516722	14.876751
P83	-22.508325	14.877712
P84	-22.504581	14.880159
P85	-22.496862	14.885203
P86	-22.494201	14.890018
P87	-22.489585	14.89837
P88	-22.481755	14.893528
P89	-22.473925	14.888688
P90	-22.466095	14.883847
P91	-22.458265	14.879007
P92	-22.450434	14.874168
P93	-22.442604	14.869329
P94	-22.436498	14.876651
P95	-22.430455	14.884011
P96	-22.42441	14.89137
P97	-22.418366	14.898729
P98	-22.412321	14.906087
P99	-22.406276	14.913444
P100	-22.40023	14.9208
P101	-22.394184	14.928156
P102	-22.388138	14.935512
P103	-22.382091	14.942867
P104	-22.376044	14.950221

P105	-22.369997	14.957574
P106	-22.363949	14.964927
P107	-22.357901	14.972279
P108	-22.360764	14.975948
P109	-22.366567	14.983387

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ECC-145-660-LET-05-A

19 September 2025

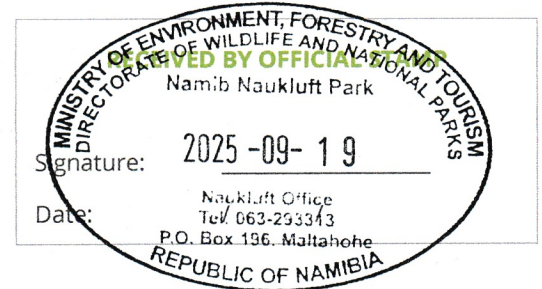
Directorate of Wildlife and National Parks

Ministry of Environment, Forestry and Tourism

Private Bag 13306

Windhoek

Namibia



BY INVITATION: 19 SEPTEMBER 2025 11AM SWAKOPMUND

FOR ATTENTION: THE CHIEF WARDEN (NAMIB NAUKLUFT NATIONAL PARK) – MR DAVID MASEN

THE CHIEF WARDEN (DOROB NATIONAL PARK) – MR RIAAN SOLOMON,

COPY TO: THE ENVIRONMENTAL COMMISSIONER (DIRECTORATE OF ENVIRONMENTAL AFFAIRS AND FORESTRY) – MR TIMOTEUS MUFETI

RE – CONSENT FOR GEOTECHNICAL FIELDWORK WITHIN DOROB AND NAMIB NAUKLUFT NATIONAL PARKS ALONG A ~112 KM SERVITUDE CORRIDOR, ERONGO REGION.

Dear Mr David Masen and Mr Riaan Solomon,

Environmental Compliance Consultancy (Pty) Ltd (ECC) has been engaged by CMB.TECH Namibia (Pty) Ltd (CMB.TECH) to compile and submit an environmental clearance certificate application to conduct geotechnical fieldwork involving soil sampling along a ~112 km servitude corridor at 1 km intervals. The proposed investigation is to define the physical and engineering properties of the soil material for the proposed Ammonia Pipeline Project between Arandis and the Walvis Bay North Port area, for which its own ESIA is undertaken. As the geotechnical fieldwork located within the Dorob and Namib Naukluft National Parks, MEFT:DEA has requested consent from the chief warden of both parks. Hence, we seek your consent (Attachment A and Attachment B) for CMB.TECH to conduct minimal impact geotechnical investigation.

CMB.TECH is committed to carrying out all activities in strict compliance with the Environmental Management Act, 2007 (Act No. 7 of 2007), and the conditions stipulated in the approved Environmental Clearance Certificate and project Environmental Management Plan (EMP). We kindly request your written consent to proceed with these activities.

Yours sincerely,

Stephan Bezuidenhout

stephan@eccenvironmental.com

Jessica Bezuidenhout Mooney

jessica@eccenvironmental.com

ATTACHMENT A - CONSENT LETTER

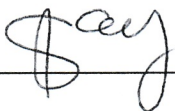
I, David Masen, Chief Warden of the Namib Naukluft National Park in Namibia.

I hereby give consent for CMB.TECH Namibia (Pty) Ltd to obtain an environmental clearance certificate for geotechnical fieldwork along a ~112 km servitude corridor within the Namib Naukluft National Park and give consent for CMB.TECH to access and conduct a soil investigation within the park.

Therefore, I sign below,


Date: 19/09/2025

Witness,


Date: 19/09/2025

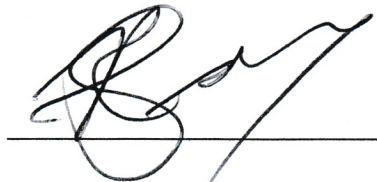


ATTACHMENT B - CONSENT LETTER

I, Riaan Solomon, Chief Warden of the Dorob National Park in Namibia.

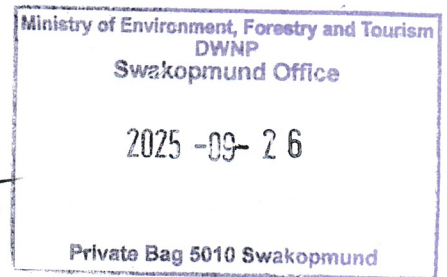
I hereby give consent for CMB.TECH Namibia (Pty) Ltd to obtain an environmental clearance certificate for geotechnical fieldwork along a ~112 km servitude corridor within the Dorob National Park and give consent for CMB.TECH to access and conduct a soil investigation within the park.

Therefore, I sign below,

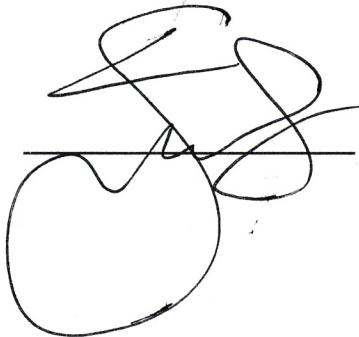


Date:

26/09/2025



Witness,



Date:

26/09/2025