

APPENDIX 3.4: I&AP NOTIFICATION LETTERS

Candice Sadan

From: Candice Sadan
Sent: Friday, 19 June 2020 13:48
To: Candice Sadan
Subject: TOTAL E&P SOUTH AFRICA B.V. – ESIA FOR ADDITIONAL EXPLORATION DRILLING AND ASSOCIATED ACTIVITIES IN BLOCK 11B/12B OFF THE SOUTH COAST OF SOUTH AFRICA: NOTIFICATION OF AVAILABILITY OF DRAFT SCOPING REPORT FOR REVIEW AND COMMENT

Attachments: TEPSA_Block11B12B_Text in Afrikaans.pdf; TEPSA_11B12B_DSR_Exec_Summary.pdf; TEPSA_Block11B12B_Text in IsiXhosa.pdf

Bcc: Nicholas Arnott; fatima.rawjee@environment.gov.za; ashare@environment.gov.za; ashley.bergstedt@transnet.net; tandi.lebakeng@transnet.net; mmantsha.malope@transnet.net; nelisa.ndula@transnet.net; mogamatp@npa.co.za; naresh.sewnath@transnet.net; alex.miya@transnet.net; nnoble@samsa.org.za; pschutz@samsa.org.za; hydrosan@iafrica.com; steven.buck@exxonmobil.com; siphwiwe.msipho@petrosa.co.za; n.rossouw@shell.com; lunn.sean@gmail.com; eduard.groenewald@total.com; klee824@yahoo.com.sg; dlolan@newafricanglobalenergy.com; keith.thornton@cnrinternational.com; legal@balobi.com; mark@balobi.com; balobi@balobi.co.za; marinemanager@balobi.com; lynweth@polka.co.za; procher@bluecon.co.za; beverleybrown31@gmail.com; chrisjordan1941@gmail.com; pancho@eyethufishing.co.za; RobertLa@ij.co.za; nassarg@ij.co.za; SharashiniR@ij.co.za; lesleyanns@ij.co.za; kirstend@ij.co.za; andrew@kaytrad.co.za; salome@livefishtanksec.co.za; gaston@lusitanianifishing.co.za; suleiman.salie@oceana.co.za; mike.sands@oceana.co.za; titanias@oceana.co.za; arshad.dolan@oceana.co.za; nevilleb@oceana.co.za; aletd@oceana.co.za; michaeld@premfish.co.za; redahdemainef@msn.com; vanantwerpendeon@gmail.com; russellh@seaharvest.co.za; kentons@seaharvest.co.za; corneld@seaharvest.co.za; tim@selectafish.co.za; stilbaai@southprincessfishing.co.za; charmaine@talhado.co.za; craig@vikingfishing.co.za; shirley@afrishore.co.za; d.forfar@bowman.co.za; dave@capfish.co.za; Sarah Wilkinon; enquiries@fugro-uae.com; southafrica@gacworld.com; rgonsalves@jmss.co.za; cktotze@jmss.co.za; edreed@newsbase.com; lizel.oberholzer@nortonrosefulbright.com; alex.vartan@pgs.com; norma.patrick8@gmail.com; raphaell@salfreight.co.za; g.barker@smit.com; d.murray@smit.com; swoithe@boost.co.za; nils.warner@worldshipsa.com; stefanzh@iafrica.com; niall.kramer@gmail.com; ahertong@seascapemarine.co.za; r.schwendinger@paramountmaritime.com; reinhart@nauticafrica.com; maenetjaedgar@gmail.com; alberto.marcantonio@saipem.com; alfredo.consalvo@saipem.com; arnold@keagroup.co.za; cthomas@emgs.com; quinton@subtech.co.za; maureen@subtech.co.za; edward.coetzee@hse.co.za; andrea.angel@birdlife.org.za; kenfin@mweb.co.za; findlayk@cput.ac.za; info@dolphinstudies.co.za; mwdapg@mweb.co.za; beverley@envirob.co.za; info@mep.org.za; bernadette.snow@mandela.ac.za; harris.linda.r@gmail.com; ori@saambr.org.za; correspond@janetsolomon.com; enrico@sampla.org; lara@saeon.ac.za; k.sink@sanbi.org.za; morgan@wessaep.co.za; cathy@wessa.co.za; spetersen@wwf.org.za; mbetts@wwf.org.za; csmith@wwf.org.za; judianbruk@telkomsa.net; liaison@fishsa.org; trachandler@telkomsa.net; stevecd@rsaweb.co.za; safish@new.co.za; secretary@nha.org.na; mike.copeland@luckystar.co.za; kobusM@seavuna.co.za; petesims@mweb.co.za; sauff@yahoo.com; johann@sadstia.co.za; terenceb@seaharvest.co.za; fiso@sadstia.co.za; cattwood@mweb.co.za; clyde@molimoman.co.za; robert@kaytrad.co.za; redahdemainef@msn.com; dan@new.co.za; fani@sapia.co.za; jpledger@iafrica.com; adrian@ukuloba.co.za; sasmia@webec.co.za; mark@balobi.co.za; gregchristy@intekom.co.za; aqfishing@mweb.co.za; don@comfish.co.za; trevorw@seaharvest.co.za; rob@kzntuna.com; rball@iafrica.com; shaunb@premfish.co.za; kevin@flantrade.co.za; brian@theflanagans.co.za; Shamera Daniels; safish@new.co.za; mike@olsps.com; thabo.mokonenyane@gmail.com; deawilson@polka.co.za; ccwu@mofa.gov.tw; Karmigan.Naiker@erm.com; Vicky.Louw@erm.com

Dear Sir / Madam

Total E&P South Africa B.V. ("TEPSA") and its partners hold an exploration right over Block 11B/12B located between 45 km to 130 km off the South Coast of South Africa. Existing Environmental Authorisation (EA) enables TEPSA to undertake various exploration activities across the block including drilling in a defined area in the western portion of the block. To better confirm the hydrocarbon resources in the area, TEPSA wishes to undertake additional exploration drilling in the eastern portion of the block and associated activities in Block 11B/12B.

This correspondence provides notice in terms of the Environmental Impact Assessment Regulations 2014 (as amended) promulgated in terms of the National Environmental Management Act, 1998 (No. 107 of 1998) (NEMA) of an Application for EA by TEPSA to undertake the proposed additional exploration activities.

SLR Consulting (South Africa) (Pty) Ltd ("SLR") has been appointed by TEPSA to undertake the Environmental and Social Impact Assessment (ESIA) process for the proposed project. As part of this ESIA process, notice is hereby given, that the Draft Scoping Report (DSR) compiled for the above-mentioned project is available for a 30-day review and comment period from **19 June to 20 July 2020**. A copy of the Executive Summary of the DSR is attached for your reference. A copy of the full DSR is available on the SLR website (at <http://slrconsulting.com/za/slr-documents/tepsa11b12b>).

To register as an interested and/or affected party (I&AP), please submit your full name and contact details to the SLR address provided below. Due to COVID-19 related restrictions on public gatherings, no public meetings will be held at this stage of the ESIA process. However, should you wish to be invited to the planned online meeting, where additional information regarding the proposed project would be presented, please register by **25 June 2020** by sending an email to the address below.

For issues and/or comments to be included in the Final Scoping Report they should be forwarded to SLR (using the details provided below) by **no later than 20 July 2020**.

Note: Please use '11B12B' in the subject line in any submissions in this matter.

Ms Candice Sadan
SLR Consulting (South Africa) (Pty) Ltd
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Tel: (021) 461 1118
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Should you have any queries in this regard please do not hesitate to contact the undersigned.

Please note that the text of this correspondence has also been translated into Afrikaans and IsiXhosa. These translations are also attached to this email for your convenience.

Yours sincerely,
Candice Sadan

Candice Sadan
Office Administrator

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Isihloko:

I-TOTAL E&P SOUTH AFRICA B.V. – ESIA YOHOLOLO OLONGEZEKILEYO NGOKUBHOLA NEZINYE IINTSHUKUMO EZIYELELE KOKU KWIBHLOKO 11B/12B CEBU KUHLE NONXWEME OLUKUMAZANTSI OMZANTSI AFRIKA: ISAZISO SOKUFUMANEKA KWENGXELO YOYILO YOMISELO-MDA UKUZE IHLOLWE YAYE KUNIKWE IZIMVO

Umxholo:

Mnu / Nkkz Othandekayo

I-Total E&P South Africa B.V. (“TEPSA”) kunye nesebenza nabo, banelungelo lokuhlola kwiBhloko 11B/12B ephakathi kwama 45 km ukuya kwi 130 km cebu kuhle noNxweme olukuMazantsi oMzantsi Afrika. Isigunyaziso Esikhoyo Sobume Bokusingqongileyo (i-EA) siyayivumela i-TEPSA ukuba yenze iintlobo ngeentlobo zokuhlola kwibhloko yonke, kuqukwa ukubhola kummandla obekiweyo okwisahlulo sasentshona sale bhloko. Ukuqinisekisa ngcono ubutyebi be hydrocarbon kulo mmandla, i-TEPSA inqwenela ukwenza okunye ukuhlola ngokubhola kwisahlulo esisempuma yale bhloko kunye neentshukumo ezayamene noku kwiBhloko 11B/12B.

Le mbalelwano ibonelela ngesaziso ngokwemiQathango yoVavanyo lokuChaphazeleka koBume bokusingqongileyo yango 2014 (nezilungiso) ebhengeziswe ngokoMthetho woLawulo loBume Obusingqongileyo kaZwelonke, 1998 (uMthetho onguNombolo. 107 ka-1998) (NEMA) weSicelo se EA yi TEPSA ukwenza ezi ntshukumo zongezekileyo zokuhlola ziphakanyiswayo.

I-SLR Consulting (South Africa) (Pty) Ltd (“SLR”) yonyulwe yi TEPSA ukuba yenze inkqubo yoVavanyo lokuChaphazeleka koBume bokusingqongileyo neNtlalo (ESIA), yale projekthi iphakanyiswayo. Njengexalenye yale nkqubo ye ESIA, ngokwenjenje kunikezwa isaziso, sokuba iNgxelo yoYilo yoMiselo-mda (DSR) equlunqelwe le projekthi ikhankanywe ngasentla, iyafumaneka ukuba ihlolwe iintsuku ezingama-30 nokuba kunikwe izimvo kwesi sithuba sisuka kumhla we **19 ku Juni ukuya kweyama 20 ku Julayi 2020**. Ikopi yesiShwankathelo Esiphambili se DSR incanyathelisiwe ukuze ukwazi ukuyijonga. Ikopi ye DSR epheleleyo iya fumaneka kwi webhusayithi ye SLR (at <http://slrconsulting.com/za/slr-documents/tepsa11b12b>).

Ukubhalisa njengomntu onomdla no/okanye ochaphazelekayo (I&AP), nceda ungenise igama lakho elipheleleyo neenkukacha zoqhagamshelwano naye kwidilesi yase SLR ebonelelwe ngezantsi. Ngenxa yonyino oluze ne COVID-19 kwiindibano zabantu, akukho zintlanganiso zikawonke-wonke ezakuthi zibanjwe ngeli xesha lenkqubo ye ESIA. Kodwa ke, ukuba unqwenela ukumenywa kwintlanganiso ecetyiweyo kwi-intanethi, apho kuya kunikwa intetho ngolunye ulwazi olongezekileyo malunga nale projekthi iphakanyiswayo, nceda ubhalise phambi komhla wama **25 ku Juni 2020** ngokuthumela i email kule dilesi ingezantsi.

Kufanele kuthunyelwe e SLR (kusetyenziswa iinkukacha ezibonelelwe ngezantsi) imiba kunye/okanye izimvo ezifanele ukuqukwa kwiNgxelo yokuGqibela Yomiselo-Mda, ungalulanga umhla wama **20 ku Julayi 2020**.

Qaphela: Nceda usebenzise u ‘11B12B’ kumgca wesihloko xa ungenisa nantoni na ephathelele kulo mcimbi.

Ms Candice Sadan
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Ukuba ungaba nayo nayiphi imibuzo malunga noku, nceda ungalibazisi ukuqhagamshelana nalo usayine ngezantsi.

Ozithobileyo,
Candice Sadan

Subject:

TOTAL E&P SOUTH AFRICA B.V. – OSIS VIR ADDISIONELE EKSPLORASIEBOORWERK EN VERWANTE AKTIWITEITE IN BLOK 11B/12B LANGS DIE SUIDKUS VAN SUID-AFRIKA: BESKIKBAARHEID VAN KONSEP OMVANGSVERSLAG VIR OORSIG EN KOMMENTAAR

Body text:

Geagte Heer / Dame

Total E&P South Africa B.V. (“TEPSA”) en vennote hou ‘n eksplorasierig oor Blok 11B/12B wat tussen 45 km en 130 km aflandig van die Suidkus van Suid-Afrika geleë is. Bestaande Omgewingsmagtiging laat TEPSA toe om verskeie eksplorasië aktiwiteite te onderneem oor die blok, insluitende boorwerk in ‘n gedefinieerde area in die westelike gedeelte van die blok. TEPSA beoog nou om addisionele eksplorasië boorwerk in die oostelike gedeelte van die blok en verwante aktiwiteite in Blok 11B/12B te onderneem.

Hierdie korrespondensie dien as kennisgewing in terme van die Omgewingsimpakstudie Regulasies 2014 (soos gewysig) kragtens die Nasionale Wet op Omgewingsbestuur, 1998 (No. 107 van 1998) (NEMA) van ‘n Aansoek om Omgewingsmagtiging deur TEPSA vir die onderneem van die voorgestelde addisionele eksplorasië aktiwiteite.

SLR Consulting (South Africa) (Pty) Ltd (“SLR”) is deur TEPSA aangestel om die Omgewings- en Sosiale Impakstudie (OSIS) proses vir die voorgestelde projek te onderneem. As deel van die OSIS proses stel ons u hiermee in kennis dat die Konsep Omvangsverlag (KOV) vir die bostaande projek saamgestel is en beskikbaar is vir ‘n 30-dae oorsig- en kommentaarperiode vanaf **19 Junie tot 20 Julie 2020**. ‘n Kopie van die Bestuursorsig van die KOV is as verwysing hierby aangeheg. Die volle KOV is op die SLR webblad beskikbaar (at <http://slrconsulting.com/za/slr-documents/tepsa11b12b>).

Om te registreer as ‘n belanghebbende/geaffekteerde party vra ons dat u u volle naam en kontakbesonderhede aan die onderstaande SLR kontakpersoon sal stuur. As gevolg van die COVID-19 beperkinge op publieke samekomste sal geen publieke vergaderings op hierdie stadium van die OSIS proses gehou word nie. Indien u egter uitgenooi wil word na ‘n beplande aanlyn vergadering, waartydens bykomende projekinligting gedeel sal word, vra ons dat u teen **25 Junie 2020** sal registreer deur ‘n e-pos aan die onderstaande adres te stuur.

Vir kwessies en/of kommentaar om ingesluit te word in die Finale Omvangsverlag moet dit aan SLR (by onderstaande kontakbesonderhede) gestuur word **teen 20 Julie 2020**.

Neem kennis: Gebruik ‘11B12B’ as verwysing in die onderwerp vir alle korrespondensie in hierdie verband.

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Indien u enige vrae het, skakel gerus met die afsender.

Vriendelike groete,
Candice Sadan

EXECUTIVE SUMMARY

This Executive Summary provides a synopsis of the Draft Scoping Report (DSR) prepared as part of the Environmental and Social Impact Assessment (ESIA) process that is being performed for an application to undertake additional exploration activities off the South Coast of South Africa (see Figure 1).

1 INTRODUCTION

1.1 PROJECT BACKGROUND

TOTAL E & P South Africa B.V. (TEPSA) is the operator of Licence Block 11B/12B and the main shareholder (45%) with Qatar Petroleum International Upstream LLC (25%); CNR International (South Africa) (20%) and Main Street 1549 (Pty) Ltd. (10%).

The northern boundary of the block is located between approximately 130 km and 45 km offshore of Mossel Bay and Cape St. Francis, respectively (see Figure 1). The licence block is 18 734 km² in extent and water depths range from roughly 110 m to 2 300 m.

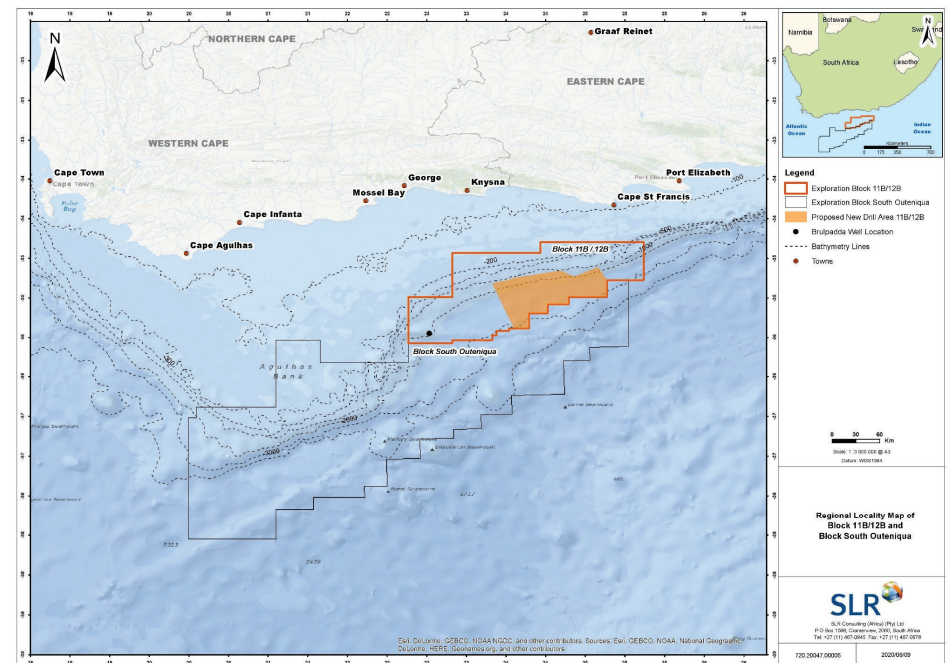


Figure 1: Location of Licence Block 11B/12B off the South Coast of South Africa (showing Block South Outeniqua for reference)

TEPSA holds an existing Exploration Right which allows for the undertaking of a number of exploration activities, including two-dimensional (2D) and three dimensional (3D) seismic surveys, sonar bathymetry surveys and sediment sampling across the entire extent of Block 11B/12B, and drilling of up to ten wells in an area in the south-west portion of the block. TEPSA is also the holder of an exploration right for the adjacent Block South Outeniqua (see Figure 1). An application to undertake further exploration activities in this block will commence in the near future.

Since the first granting of the Exploration Right, seismic surveys have been undertaken in the block and in 2018/2019 drilling of the Brulpadda exploration well was completed¹. This drilling operation was successful, yielding a significant gas condensate discovery. Due to this success, TEPSA is now proposing to undertake further exploration drilling and associated activities. The current application includes:

- The drilling of up to ten additional exploration wells in a proposed new drill area in the eastern portion of the block;
- Controlled Source Electro-Magnetic Surveys (CSEM) to profile the presence of hydrocarbon resources, and
- The deployment of metocean buoys for data acquisition and acoustic monitoring.

These exploration activities trigger a number of listed activities in terms of the EIA Regulations, 2014, and as such, an Environmental Authorisation (EA) is required before such activities can commence. TEPSA, as the Operator of the Licence Block, will be the applicant for the EA.

SLR Consulting (South Africa) Pty Ltd. has been appointed as the Independent Environmental Practitioner to undertake a full Scoping and ESIA process for the proposed exploration activities.

1.2 PURPOSE OF REPORT AND OPPORTUNITY TO COMMENT

This draft version of the Scoping Report has been made available for a 30-day comment period on SLR's website from **19 June to 20 July 2020**. It provides an opportunity for Interested and Affected Parties (I&APs) to comment on any aspect of the proposed project and the findings of the ESIA process to date. The draft Scoping Report is available at:

SLR website: <https://slrconsulting.com/za/slr-documents/tepsa11b12b>

Any comments or concerns should be forwarded to SLR at the address, telephone or e-mail addresses shown below no later than **20 July 2020** for comments to be included in the final Scoping Report. **Note: due to COVID-19 restrictions, no hard copies are available in public libraries.**

Any I&APs who wish to participate in an online meeting should confirm this by email by **25 June 2020**.

Note: Please use '11B12B' in the subject line in any submissions in this matter.

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¹ Brulpadda was first drilled in 2014 but not completed for technical reasons.

2 ESIA PROCESS

A Scoping and EIA process is required for the proposed exploration activities as they trigger Listed Activities 7, 14, 18 of Government Notice (GN) R984 (Listing Notice 2, as amended by GN No. 325 of 07 April 2017) and Listed Activity 19A of GN R983 (Listing Notice 1, as amended by GN No. 327 dated 07 April 2017), as summarised in Table 1.

Table 1. Listed Activities Triggered by the Proposed Exploration Activities

| Activity | Definition |
|--|--|
| GN No. R984 (Activity 7) (as amended by GN No. R325) | "The construction of facilities or infrastructure for the bulk transportation of dangerous goods: (i) in gas form, outside an industrial complex, using pipelines, exceeding 1 000 m in length, with a throughput capacity of more than 700 tons per day; (ii) in liquid form, outside an industrial complex, using pipelines, exceeding 1 000 m in length, with a throughput capacity more than 50 m ³ per day;" |
| GN No. R984 (Activity 14) | "The development and related operation of (i) an anchored platform; or (iii) any other structure or infrastructure on, below or along the seabed." |
| GN No. R984 (Activity 18) | "Any activity including the operation of that activity which requires an exploration right as contemplated in Section 79 of the Mineral and Petroleum Resources Development Act, 2002, including – o associated infrastructure, structures and earthworks; or o the primary processing of a petroleum resource including winning, extraction, classifying, concentrating or water removal". |
| GN No. R983 (Activity 19A) (as amended by GN No. R327) | "The infilling or depositing of any material of more than 5 cubic metres into, or the dredging, excavation, removal or moving of soil, sand, shells, shell grit, pebbles or rock of more than 5 cubic metres from: (iii) the sea. ..." |

The ESIA process will be undertaken in compliance with the requirements of the National Environmental Management Act (1998) and the EIA Regulations of 2014 (as amended). In accordance with the MPRDA regulations (GN R527 of 2004), the Department of Mineral Resources and Energy (DMRE) is the competent authority that authorises an application for an EA while the Department of Environment, Forestry and Fisheries (DEFF) remains the appeal authority for such an authorisation.

The overall ESIA Process consists of two phases, namely the Scoping and ESIA Phase. A flowchart indicating the ESIA process is presented in Figure 3-1.

2.1 SCOPING PHASE

The purpose of the Scoping Phase is to communicate the scope of the proposed project to I&APs, to consider project alternatives, to identify the environmental and social aspects, potential impacts and their mitigation for further investigation and assessment, and to develop the plan of study for the ESIA Phase, including specialist studies to be conducted. The Scoping process consists of a series of steps to ensure compliance with these objectives and the EIA Regulations 2014 as set out in GN No. R982 (as amended). The process is required to involve an open, participatory approach to ensure that all impacts are identified and that decision-making takes place in an informed, transparent and accountable manner.

Under COVID-19 restrictions, public participation processes are required to comply with GN No. 650 (05 June 2020) issued under Section 27(2) of the Disaster Management Act, 2002 (Act No. 57 of 2002) "Directions regarding measures to address, prevent and combat the spread of COVID-19 relating to National Environmental Management Permits and Licences".

The public consultation process is summarised in Chapter 4.

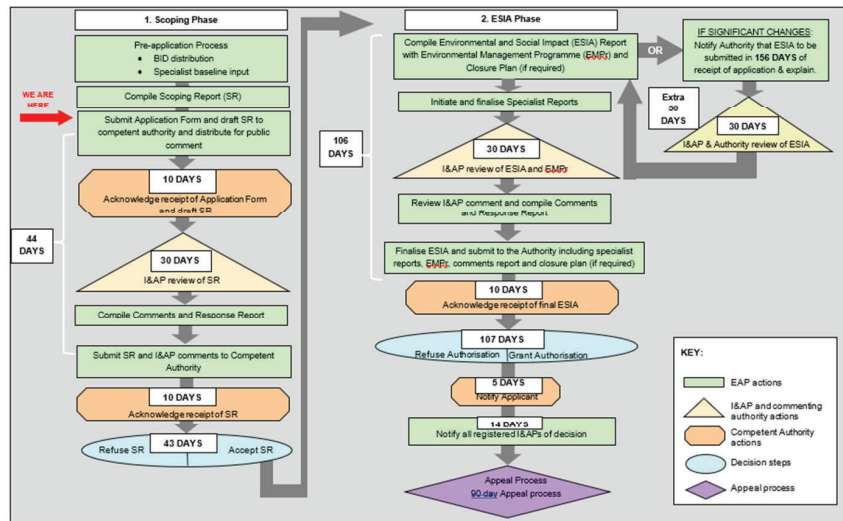


Figure 2: Flow diagram showing the ESIA process
 Source: SLR

Key steps (excluding public consultation) of the Scoping Phase are summarised below.

- *Pre-application meetings* was held with PASA on 8 April to inform PASA of TEPSA’s proposed application and to obtain agreement on the way forward and to discuss the implications of COVID-19 on the ESIA process.
- *An Application Form for Environmental Authorisation* has been compiled and submitted to PASA.
- *The National Screening Report* was generated by the DEFF National Screening Tool during the pre-application process designed to identify the specialist assessments required in an ESIA process.
- *Specialist inputs* into the description of the baseline affected environment were provided by a marine ecologist, fisheries specialist and a social scientist.
- *Preparation of this draft Scoping Report* is in fulfilment of Appendix 2 of the EIA Regulations 2014 and presents detailed information on the proposed project and the affected environment, identifies potential impacts and mitigation, describes the impact assessment approach and outlines the plan of study for the ESIA, including scope of the specialist studies.
- *Completion of the Scoping Phase* will involve:
 - An update of the draft Scoping Report to final version with stakeholder comments appended in a Comments and Responses Report; and
 - Submission of the final Scoping Report to PASA for consideration and acceptance. If the report is accepted, the project will proceed to the ESIA Phase, as outlined in Section 2.2 below.

2.2 ESIA PHASE

The overall objectives of the ESIA process is to ensure, through a consultative process, that the project complies with the legal and policy context; the need and desirability is justified; impacts and risks of the proposed project and alternatives are assessed for all phases using a defensible and defined methodology; and measures are identified to avoid, minimise or otherwise manage identified impacts and monitor residual risks. The specific objectives of the ESIA is Appendix 3 of GN No. R982 (as amended).

The tasks to be undertaken during the ESIA are summarised below.

- *Specialist Studies:* Six specialist studies will be commissioned to assess the key impacts and identify mitigation. These include:
 - Marine Ecology Impact Assessment;
 - Commercial Fisheries Impact Assessment;
 - Social Impact Assessment;
 - Underwater Noise Modelling;
 - Drill Cuttings Modelling; and
 - Oil Spill Modelling.
- *Compilation of ESIA Report:* An ESIA Report and Environmental Management Programme (EMPr) will be compiled based on the specialist findings and other relevant information. The draft ESIA Report and EMPr will be released for a 30-day review and comment period, including I&AP information feedback sessions. All comments received will be incorporated and responded to in a Comments and Responses Report. The updated ESIA and EMPr will be submitted to PASA for consideration and review.

- *Decision and Appeal Period:* After its review, PASA will provide a recommendation to DMRE on whether or not to grant an EA. After DMRE issues its decision, all I&APs on the project database will be notified of the outcome of the application and the reasons for the decision. A statutory appeal period in terms of the National Appeal Regulations, 2014 (GN No. R993) will follow the issuing of the decision, which allows for any registered I&AP to submit an appeal with 20 days of the date of notification of the decision.

3 PUBLIC PARTICIPATION

The public participation process undertaken for this ESIA will follow the guidelines set out in the NEMA EIA Regulations (DEA 2017) which specifies that the all potential I&APs should have an opportunity to obtain accurate information about the project and be able to voice concerns or raise queries, issues and suggestions, and requires these to be incorporated into the Scoping and ESIA Reports for consideration during decision-making. The public participation steps involved in the Scoping and ESIA Phases are summarised below. In accordance with Annexure 3 of GN No. 650 of 5 June 2020 (Directives), a Public Participation Plan was submitted to PASA and approved on 15 June 2020 which agreed to the public participation process described below.

3.1 SCOPING PHASE

I&AP participation and disclosure during the Scoping Phase has involved or will involve the following:

- *A meeting with PASA on the Public Participation Plan* was held on 10 June 2020. A Public Participation Plan was submitted to PASA and approved by them on 15 June 2020, confirming the approach to be taken.
- *Identification of I&APs* was based on SLR's existing databases from other offshore oil and gas ESIA's along the South Coast. A total of 161 I&APs are currently registered. The database will be continually updated.
- *Distribution of Background Information Document (BID)* to pre-identified I&APs on 08 May 2020 as an introductory step to notify I&APs of the initiation of the ESIA process and the opportunity to participate.
- *Newspaper advertisements* were placed in the Cape Times (Western Cape), Die Burger (Western Cape), Die Burger (Eastern Cape) and the Herald (Eastern Cape) on **19 June 2020** in English, Afrikaans and IsiXhosa.
- *Availability of Scoping Report for I&AP review* over a 30-day comment period from **19 June to 20 July 2020** on SLR's website. Note: due to COVID-19 restrictions, no hard copies are available in public libraries.
- *Notification letters via e-mail* were sent to all I&APs registered on the database with this Executive Summary (in English).
- *Information meetings* will be held online (via Skype/TEAMS/WhatsApp/Telecom) during the Scoping Phase disclosure period to present the project and discuss issues or concerns. Three online meetings are planned with: i) potential and registered I&APs who wish to attend; ii) the Agulhas Offshore Forum.
- *I&AP comments and responses:* all issues raised by I&APs during the public participation process – by e-mail, telephone or during online stakeholder meetings – will be consolidated into a Comments and Responses Report which will be attached as an appendix to the Final Scoping Report.

3.2 ESIA PHASE

Public participation-related tasks that will be undertaken during the ESIA Phase will include:

- *Release of the draft ESIA Report and EMPr for I&AP review and comment for a 30-day period.* Notification letters with a copy of the Executive Summary will be sent to all potential and registered I&APs to inform them of the release of the draft ESIA Report and EMPr for public review which shall be made available on the SLR website for comment. If COVID-19 restrictions are lifted during the ESIA Phase, copies will be available at public libraries in Mossel Bay, Cape Town, and Port Elizabeth.
- *Notification of all potential and registered I&APs* via e-mail of the submission of the final ESIA Report (with appended Comments and Response Report) to PASA for consideration and recommendation to DMRE.
- *Information feedback meetings* will be held online (via Skype/TEAMS/WhatsApp/Telecom) during the ESIA Phase disclosure period to present the project and discuss issues or concerns. Three online meetings are planned with: i) potential and registered I&APs who wish to attend; ii) commercial fishing sector; ii) the Agulhas Offshore Forum.
- *Notification of DMRE's decision* to all I&APs and availability of the decision to SLR website for review and the formal appeal process to be followed in terms of the National Appeal Regulations, 2014.

4 NEED AND DESIRABILITY

The proposed exploration activities are aligned with a number of the goals and principles of the following policies of the South African Government:

- White Paper on the Energy Policy of the Republic of South Africa (1998)
- New Growth Path (2011)
- National Development Plan 2030 (2013)
- Draft Integrated Energy Plan (2013)
- Operation Phakisa (2014)
- Integrated Resources Plan (2019)

Further exploration provides an opportunity to establish the extent and economic viability of the gas and/or oil reserves in Block 11B/12B.

5 PROJECT DESCRIPTION

5.1 SUMMARY OF PROJECT ACTIVITIES AND COMPONENTS

Table 2 summarises the key project components and specifications for the additional exploration activities.

Table 2: Summary of key project components

| | |
|-----------------------------------|---|
| Exploration Right No.: | 12/3/67/2A |
| Licence Block No.: | 11B/12B |
| Size of licence area: | 18 734 km ² |
| Water depths across licence area: | 110 m to 2 300 m |
| Distance offshore: | 45 km to 130 km |
| Locality: | South Coast South Africa (see Figure 1) |
| Province: | Offshore of Western Cape and Eastern Cape |

| | |
|---|--|
| Exploration activities authorised under existing Environmental Authorisations/Decision | Addenda EMPRs (EA issued 21 May 2012): <ul style="list-style-type: none"> • 2D seismic surveys (whole block) • 3D seismic surveys (whole block) • Drilling of up to 10 exploration well drilling (in defined area in south west portion) EMPr Amendment (Approval granted on 24 March 2015): <ul style="list-style-type: none"> • Sonar bathymetry survey (whole block, defined period) • Sediment sampling (whole block) EMPr Amendment (Approval 6 February 2019): <ul style="list-style-type: none"> • Change of well completion status |
| Additional exploration activities (currently proposed for this application) | <ul style="list-style-type: none"> • Drilling of up to 10 wells in the north-eastern proposed new drill area; • Controlled Source Electro-Magnetic (CSEM) surveys in localised areas across the whole block to confirm hydrocarbon resources, and • Installation of up to five metocean buoys for up to one year to monitor metocean, weather and acoustic conditions across the whole block. |
| Specifications for Proposed Exploration Activities under the current application | |
| CSEM Surveys | |
| Purpose | Electromagnetic surveys to profile subsea surface to detect hydrocarbons |
| Output energy | Up to 7 kA at frequencies ranging from 0.1 to 50 Hz |
| Duration | Up to three months |
| Location | Not confirmed but localised areas within whole block |
| Safety zone | Up to 2 km around the survey vessel and the deployed sensors |
| Metocean Buoys | |
| Purpose | To measure oceanographical and meteorological data i.e. currents, waves, water temperature, ambient water noise levels, wind and air parameters |
| Number | Five buoys would be deployed consisting of the following: <ul style="list-style-type: none"> • Four metocean buoys to monitor 3D currents and sea parameters along the water column; • One mooring would consist of a surface wave buoy mounted with an above surface meteorological station to measure wind and air parameters |
| Duration | Left in place for up to 1 year |
| Location | Not confirmed but within whole block, with one metocean buoy and current wave buoy at least 5 km apart in proposed new drill area |
| Safety Zone | 500 m zone around each buoy |
| Exploration Drilling: | |
| Purpose | To confirm and test the presence and quality of hydrocarbon resources |
| Number of exploration and appraisal wells | Up to 10 |
| Proposed new drill area size | 4 912 km ² |
| Well depth (below seafloor) | Variable depending on depth of resource which is not currently known. A notional well depth of 2 100 m is assumed at this stage. |
| Water depth | Between 600-2 000 m water depth in proposed new drill area |
| Duration to drill each well | Up to six months (including mobilisation and demobilisation) |
| Commencement of drilling | Not confirmed but possibly first quarter of 2021 to drill first well |
| Drilling and support vessels | Semi-submersible drilling unit with one support vessel on standby at all times during drilling and an optional tug depending on the met ocean conditions |
| Operational safety zone | Minimum 500 m around drilling unit, extended up to 2 km if a tug assist option is used |
| Flaring | Possibly if hydrocarbon is found – duration up to 10-14 days per well, 24-hours a day |
| Logistics base | Mossel Bay, Cape Town or Port Elizabeth |
| Logistics base components | Office facilities, laydown area, mud plant |
| Support facilities | Crew accommodation in Mossel Bay, George, Cape Town or Port Elizabeth |
| Staff requirements: | Specialised drilling staff supplied with hire of drilling unit Some additional specialised international and local staff at logistics base |
| Staff changes | Rotation of staff every three to four weeks with transfer by helicopter to shore |

5.2 SUMMARY DESCRIPTION OF PROPOSED ACTIVITIES

Each of the three main activities for which Environmental Authorisation is sought is outlined below.

5.2.1 Controlled Source Electro-Magnetic (CSEM) Surveys

A Controlled Source Electro-Magnetic (CSEM) survey is used to identify subsurface geological features to profile the presence of hydrocarbon resources through the mapping of electric resistivity distribution. CSEM surveys involve the generation of an electrical field using a dipole source towed behind the survey vessel between 30 -50 m above the seafloor. An array of receivers is placed in a grid pattern on the seafloor to record changes in the emitted field caused by subsurface resistivity layers (see Figure 3). The processing of this recorded data, along with other subsurface information (e.g. seismic data), allow for the identification of hydrocarbon-bearing features below the seafloor. These low frequencies and long wavelengths of the output source carry very little energy and dissipate quickly in conductive seawater. CSEM does not generate any underwater noise but rather emits an electromagnetic field. The CSEM survey is expected to take up to three months to complete, largely dependent on weather conditions.

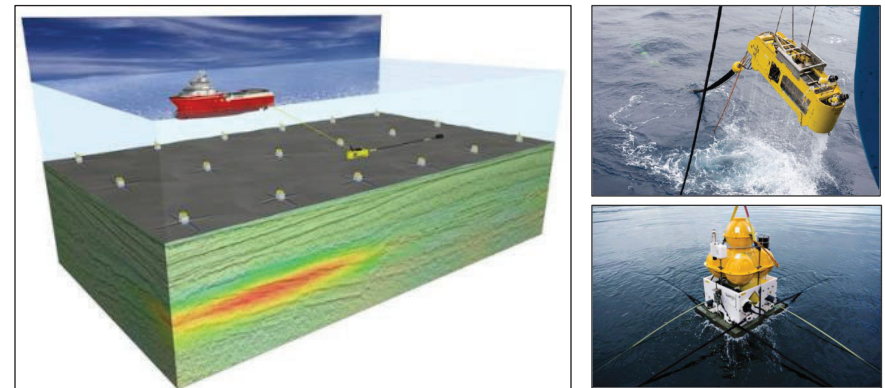


Figure 3: Schematic of typical CSEM survey configuration showing towed source and seafloor receivers (left); source (top right) and receiver (bottom right)

5.2.2 Metocean Buoy Mooring

TEPSA proposes to deploy up to five metocean buoys (as shown in Figure 4) within Block 11B/12B for a one-year period in order to measure oceanographical, meteorological and acoustic data, i.e. currents, waves, water temperature, ambient water noise levels, wind and air parameters. These will be deployed between the selected well drilling locations and the shore and anywhere in the whole block. At least one current mooring and wave buoy will be located at each drill site and these may be located at least 5 km from each other. The wave buoy would require a temporary safety zone of between 500 m and 2 km radius on the sea surface (depending on the water depth). All vessels would be excluded from entering this safety zone.

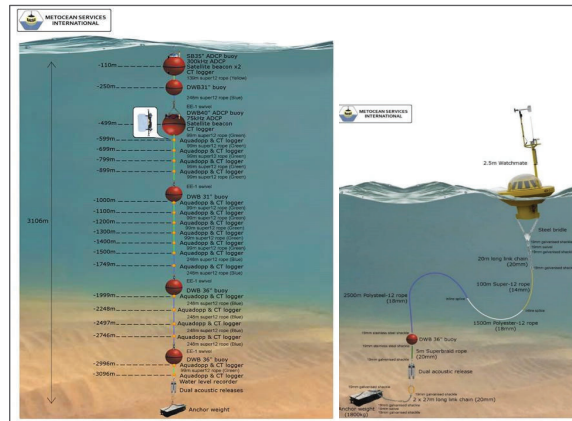


Figure 4: Typical metocean buoy mooring system and wave buoy with weather station

5.2.3 Exploration Well Drilling

Location, timing and duration

- **Location:** The proposed new drill area is situated in the eastern portion of Block 11B/12B and occupies an area of approximately 4 912 km², where water depths range between 600 m and 2 300 m. The closest boundaries to the coast are approximately 80 km southwest of Cape St Francis and 110 km southeast of Mossel Bay.
- **Anticipated timing:** The schedule for drilling of the first well is not confirmed yet but may commence by the second quarter (Q2) of 2021.
- **Duration:** Well drilling is expected to take approximately five months to complete the physical drilling and testing of each well, and an additional two weeks each to mobilise and demobilise. It is anticipated that future drilling operations would be undertaken at any time during the year and will not be limited to a specific season.

Drill rig, vessel support and onshore logistics base

- **Drill rig:** A semi-submersible drilling unit (rig) with dynamic positioning system suitable for the deepwater harsh marine environment is proposed. A temporary 500 m safety zone will be enforced around the drilling unit at all time during operation and will be described in a Notice to Mariners as a navigational warning. The safety zone may be increased to 2 km where a tug assist vessel is in place and connection lines may span up to this distance.
- **Support vessels:** The drilling unit is expected to be supported by a tugboat, two support vessels and helicopter transfers between the vessel and George airport.
- **Logistics base:** The primary onshore logistics base will most likely be located at Mossel Bay Port, or alternatively at Cape Town or Port Elizabeth. It will provide for the storage of materials and equipment (including pipes, drilling fluid, cement, chemicals, diesel and water) and a mud plant for mixing drilling fluids that will be transported by sea to / from the drilling vessel.

Drilling Operation

- **Final Drilling Site Selection** will be based on further detailed analysis of the seismic and pre-drilling survey data and the geological target. A Remote Operating Vehicle (ROV) will be used to finalise the well position including the presence of seafloor obstacles any sensitive features.
- **Drilling Sequence or Stages:** A well will be created by drilling a hole into the seafloor with a drill bit attached to a rotating drill string, which crushes the rock into small particles, called “cuttings”. After the hole is drilled, casings of steel pipe (which provide structural integrity to the newly drilled wellbore), are placed in the hole and permanently cemented into place. The diameter of the well decreases with increasing depth. Drilling is undertaken in two stages, namely the riserless and risered drilling stages (see Figure 5).

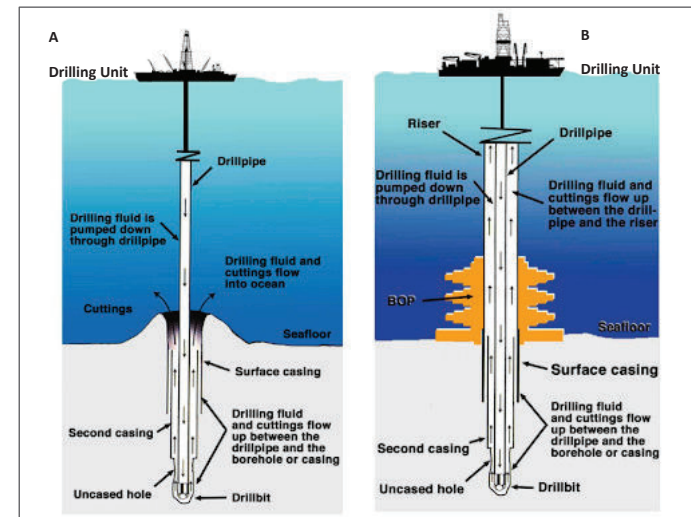


Figure 5: Drilling stages: (a) riserless drilling stage; and (b) risered drilling stage

- **Initial (riserless) drilling stage:** At the start of drilling, a 42 or 46 inch hole will be drilled approximately 80 m deep and the conductor pipe will be run into the hole and cemented into place, after which a low pressure wellhead will be placed on top of the conductor. Further sections are then drilled to diameter of 26 inches to a depth of approximately 580 m. While the wellbore is drilled, drilling fluid is pumped from the surface down through the inside of the drill pipe, the drilling fluid passes through holes in the drill bit and travels back to the seafloor through the space between the drill string and the walls of the hole, thereby removing the cuttings from the hole. At a planned depth the drilling is stopped and the bit and drill string is pulled out of the hole. A surface casing of 20 inch diameter is then placed into the hole and secured into place by pumping cement through the casing at the bottom of the hole and back up the annulus (the space between the casing and the borehole). The 20-inch casing will have a high pressure wellhead on top; which provides the entry point to the subsurface and it is the connection point to the Blow-Out Preventer (BOP). These initial hole sections will be

drilled using seawater (with viscous sweeps) and Water Based Muds (WBMs). All cuttings and WBM from this initial drilling stage will be discharged directly onto the seafloor adjacent to the wellbore.

- *Risered drilling stage:* This stage commences with the lowering of a BOP and installing it onto the wellhead, which seals the well and prevents any uncontrolled release of fluids from the well (a 'blow-out'). A lower marine riser package is installed on top of the BOP which isolates the drilling fluid and cuttings from the environment creating a "closed loop system". Drilling is continued by lowering the drill string through the riser, BOP and casing, and rotating the drill string. The drilling mud emerges through nozzles in the drill bit and rises (carrying the rock cuttings with it) up the annular space between the sides of the hole to the drilling unit. The cuttings are removed from the returned drill mud and discharged overboard. During the risered drilling stage, should the WBMs not be able to provide the necessary characteristics, a low toxicity Non-Aqueous Drilling Fluid (NADF) will be used. In such instances, cuttings would be subject to zero discharge to sea. The hole diameter decreases in steps with depth as progressively smaller diameter casings are inserted into the hole at various stages and cemented into place until reaching the expected target depth.
- *Well Logging:* Once the target depth is reached the well will be logged and tested. Well logging involves the evaluation of the physical and chemical properties of the rocks in the sub-surface, and their component minerals, including water, oil and gas to confirm the presence of hydrocarbons and the petrophysical characteristics of rocks. Vertical Seismic Profiling (VSP) is an evaluation tool that is used when the well reaches target depth to generate a high-resolution seismic image of the geology in the well's immediate vicinity. The VSP images are used for correlation with surface seismic images and for forward planning of the drill bit during drilling. VSP uses a small airgun array, which is operated from the drilling unit. During VSP operations, receivers are positioned in a section of the borehole and the airgun array is discharged at intervals. This process is repeated for different stations in the well and may take up to 8 - 12 hours to complete.
- *Well (flow) testing:* This is undertaken to determine the economic potential of any discovery before the well is abandoned or suspended. One test would be undertaken per exploration well if a resource is discovered. Testing may take up to ten days to complete and involves burning hydrocarbons at the well site. A high-efficiency flare is used to maximise combustion of the hydrocarbons.
- *Well Sealing and Plugging:* Once drilling and logging are completed, the exploration well(s) will be sealed with cement plugs, tested for integrity and abandoned according to international best practices. Wells will be left on the seafloor with an abandonment cap which measures approximately 5 x 5 m and has a height of 4 m, designed to allow for overtrawling. For wells where a hydrocarbon resource is confirmed, a monitoring gauge may be installed on the well head (under the cap) to monitor pressure and temperature.
- *Demobilisation:* A final clearance survey of the seabed will be undertaken using an ROV. The drilling unit and supply vessels will demobilise from the offshore licence area and either mobilise to the next drilling location or relocate into port or a regional base for maintenance, repair or resupply.

5.2.4 Routine Discharges and Wastes

All waste generated onboard vessels including the drill unit will be managed in accordance with MARPOL requirements which specifies strict standards for discharges to sea of food waste, sewage, deck drainage, and bilge water. Solid wastes may comprise packaging materials, paper, plastic, tins, glass as well as hazardous wastes

such as batteries, used oil, oily rags, containers etc. These will be stored on board and routinely disposed of to land, either for recycling or disposal at approved landfills.

5.2.5 Emergency Response

TEPSA has contract agreements with global response companies for globally advanced capping stacks to be used in the unplanned event of a well blow-out in a situation where the BOP has failed to serve its purpose. Capping stacks are designed to shut-in an uncontrolled subsea well in the unlikely event of a blow-out and 'buy time' for engineers to permanently seal the well. One is located in Saldanha and another in the UK and Singapore. These are available for global mobilisation and transportation by sea and/or air in the event of an incident. The mobilisation of these and other incident response equipment and services will be contained in TEPSA's Oil Spill Contingency Plan (OSCP) and Blow-Out Contingency Plan (BOCP). TEPSA has committed to a maximum duration for installation of a capping stack within 20 days in the unlikely event of a blow-out.

5.2.6 Alternatives

Alternatives that have been considered and will be further considered during the ESIA (as appropriate) include:

- *Drilling area location:* The proposed new drill area has been modified to avoid sensitive ecologically or biologically significant areas (EBSAs) and Marine Protected Areas (MPAs) in the northern part of the block.
- *Type of drilling fluids:* TEPSA has indicated it plans to use WBMs and to avoid use of NADFs unless necessary for technical reasons. If required, drill cuttings generated using NADFs will not be discharged to sea but temporarily stored on-board for subsequent onshore disposal.
- *Onshore logistics base:* The onshore base may be located at Mossel Bay, Cape Town or Port Elizabeth. These options will be considered in the ESIA.
- *Timing of Exploration Drilling and CSEM Activities:* Should significant impacts be identified during the ESIA, the timing of drilling and CSEM surveys may need to be considered to avoid certain seasons.
- *Helicopter flight paths:* Alternative routing of helicopter flight paths may need to be considered if sensitive areas (e.g. bird colonies) are identified.
- *Abandonment of wellhead:* well heads are proposed to be left on the seafloor with over-trawlable caps unless significant risks are identified that would warrant their removal.
- *No-go:* The no-go option will be considered during the ESIA if significant adverse impacts are identified.

6 DESCRIPTION OF AFFECTED ENVIRONMENT

An abbreviated summary of the key features of the affected environment is provided below.

6.1 PHYSICAL ENVIRONMENT

6.1.1 Climate

The climate along the south and east coast of South Africa transitions from the Mediterranean winter (May to August) rainfall climate in the Western Cape, which occurs between Cape Town and Agulhas, to the subtropical summer (November to February) in the Eastern Cape. Minimum and maximum temperatures average around 11 and 24°C with westernmost areas having a wider annual variation. Extreme weather events typically occur during

the winter rainfall period between May and September. Wind is predominantly parallel to the coast with westerlies dominating the winter months and both easterlies and westerlies present during summer.

6.1.2 Oceanography

The South Coast offshore region is almost totally dominated by the warm Agulhas Current which is a well-defined and intense jet some 100 km wide and 1 000 m deep, flowing in a south-west direction, with eddies that may advect onto the Agulhas Bank. Shelf-edge upwelling which is likely in the northern part of Block 11B/12B largely defines the strong thermocline and halocline that typically develops between the cold bottom water and the sun warmed surface layer between September and May. The currents are important for the spawning of many pelagic fish species as eggs and larvae are swept westwards around Cape Agulhas and then northwards up the West Coast to productive nursery areas, returning southwards again as adults to spawn on the Agulhas Bank.

6.1.3 Bathymetry

The offshore region is dominated by the Agulhas Bank, a roughly 116 000 km² triangular extension of the continental shelf, extending up to 250 km offshore at its widest point. Various banks associated with the Agulhas Bank include the Grue Bank which is situated along the northern portion of Block 11B/12B and is a deep reef complex referred to as Kingklip Koppies and the Agulhas and Kingklip Ridges. The latter ridge is 40 km long and 500 m wide rising from >700 m to 350 m with strong currents on the outer ridge. These features constitute Vulnerable Marine Ecosystems (VMEs) as they are characterised by stony and lace corals. Outside the shelf break, depth increases rapidly to more than 1 000 m. Submarine canyons occur in the shelf break (>200 m) off Port Elizabeth spanning depths of 150 to 2 000m. The Southwest Indian Seamounts are situated to the east of the Agulhas Bank while to the south of the block, beyond 3 000 m depth are the Mallory Seamount cluster (Mallory, Davie, Shackleton and Natal Seamounts). No seamounts occur within the proposed new drill area.

6.1.4 Waves

Along the South Coast, the majority of waves arrive from the south-west, dominating wave patterns during winter and spring. During summer, easterly wind-generated 'seas' occur. Tides are typically semi-diurnal along the South Coast with an average tidal range of between 0.6 m during neap tides and 1.5 to 2.0 m during spring tides. Wind-driven upwelling occurs in the nearshore, especially when easterly winds blow during summer. Such upwelling usually begins at the capes and progresses westwards. Tidal influence will be minimal in Block 11B/12B.

6.1.5 Sediments

The seabed in the inshore region of the South Coast is largely dominated by rocky reefs with sparse sediment cover. Westwards of Mossel Bay, an inner shelf sediment wedge extends up to 30 km offshore comprising soft liquid muds, whilst firm terrigenous sediment extends to the east of Mossel Bay. Mud patches also occur inshore to the east of Cape Infanta and south of Cape Agulhas, but most unconsolidated sediments are sand or muddy sand. A large expanse of the Agulhas Bank mid-shelf seafloor comprises both rock and areas with sparse sediment cover. The proposed new drill area is characterised by unconsolidated sediments falling within the Southwest Indian upper, mid and lower slope ecosystem types.

6.2 BIOLOGICAL ENVIRONMENT

6.2.1 Benthic Habitats and Species

From a conservation perspective the majority of the benthic habitats in Block 11B/12B and the whole proposed new drill area is rated as Least Concern, although the northern portions of the block around the 200 m isobath are considered Vulnerable, with the Kingklip Ridge habitat in the north-eastern corner of the block assessed as Endangered. The coastal area in the vicinity of Mossel Bay between Wilderness and Cape Infanta – 100 km inshore and northwest of Block 11B/12B - has a high degree of species endemism that are rated as Endangered and Critically Endangered. Extractive utilisation of marine resources is the greatest threat to biodiversity in these biozones.

6.2.2 Plankton, Fish and Sharks

Fish species on the South Coast is diverse, comprising a mixture of temperate and tropical species due to its location on the transition zone between the Agulhas and Benguela current systems. Fish abundance is linked to plankton which form important components of the food chain, particularly associated with the central and eastern Agulhas Bank in summer associated with a ridge of cool upwelled water. The diverse substrates of the Agulhas Bank contribute to increased fish species. Small pelagic shoaling species occurring along the South Coast include anchovy, pilchard, round herring, chub mackerel and horse. There is a high diversity of fish associated with the inshore and shelf waters of the South Coast, many of which are endemic to the Southern African coastline and form an important component of the demersal trawl and long-line fisheries. The fish most likely to be encountered on the shelf, beyond the shelf break and in the offshore waters of Block 11B/12B are the large migratory pelagic species, including various tunas, billfish, and sharks. Many of the sharks are considered threatened by the IUCN, primarily due to overfishing or caught as bycatch in pelagic tuna longline fisheries or targeted for their fins. Tuna and swordfish are targeted by high seas fishing fleets and illegal overfishing has severely damaged the stocks of many of these species.

6.2.3 Turtles

Three species of turtle occur along the South Coast, namely the leatherback (Critically Endangered), the loggerhead and occasionally the green turtle (both Endangered). Leatherback and the loggerhead turtles nest on the beaches of the northern KwaZulu-Natal coastline (over 1 000 km north of the project area) between October and February, extending into March. Hatchlings are born from late January to March when the Agulhas Current is warmest. Once hatchlings enter the sea, they move southward in the Agulhas Current and are thought to remain in the southern Indian Ocean gyre for the first five years of their lives.

6.2.4 Seabirds

Overall, 60 species of seabirds are known, or thought likely to occur, along the South Coast of which 15 species breed within the South Coast region, many on the coastal islands. These include species such as the Endangered Cape Gannets, African Penguins, and Cape Cormorants.

6.2.5 Whales and Dolphins

The cetaceans of the South Coast comprise 35 species of whales and dolphins known or likely to occur. Of these, the blue whale is listed as Critically Endangered; the fin and sei whales are Endangered, and the sperm, Bryde's (inshore) and humpback whales are Vulnerable on the South African Red Data list. Eight species are Data Deficient indicating how little is known about cetaceans, their distributions and population trends. They can be

split into those associated with the continental shelf and those that occur in deep, oceanic waters, with the shelf area (200- 1 000 m) being the most species-rich area. Species most likely to be encountered within Block 11B/12B are the common bottlenose dolphin, long-finned pilot whale, Brydes whale, southern right whale and humpback whale. Other baleen whales that may occur in the block include the blue, fin, sei, minke, dwarf minke, Bryde's, and pygmy right, although the likelihood of encountering the Critically Endangered blue whale is low. Of the toothed whales, long-finned pilot whales and short-beaked common dolphin are likely to be the most frequently encountered odontocetes in Block 11B/12B, while killer whales have also been confirmed. Sperm whales may also be encountered in water over 1 000 m depth.

6.2.6 Seals

The Cape fur seal is the only seal species that has breeding colonies along the South Coast, namely at Seal Island in Mossel Bay, on the northern shore of the Robberg Peninsula in Plettenberg Bay and at Black Rocks (Bird Island group) in Algoa Bay.

6.3 MARINE PROTECTED AREAS AND OTHER CONSERVATION AREAS

6.3.1 Marine Protected Areas (MPAs)

Coastal MPAs: Fifteen of South Africa's 42 coastal MPAs are located along the South Coast; eight coastal and seven offshore MPAs (see Figure 6). They protect a wide variety of ecosystems including offshore seamounts, offshore mud banks that are important habitat for Agulhas sole; coastal reefs with their high diversity and resident inshore fish species; sandy beaches; estuarine nursery grounds and areas where cetaceans congregate.

The coastal MPAs located to the east of Cape Agulhas, are De Hoop, Stilbaai, Goukamma, Robberg, Tsitsikamma, Sardinia Bay and Addo Elephant and all are located over 100 km inshore of the proposed new drill area. Two of the seven offshore MPAs are located in or close to Block 11B/12B.

Offshore MPAs: The Port Elizabeth Corals MPA partly falls within the north-eastern portion of Block 11B/12B, although is 20 km from the proposed drill area. This MPA is a long narrow rocky ridge and a series of underwater hills create a unique seascape on the continental slope ranging from 200 m to 5 000 m. It is recognized as an 'Ecologically or Biologically Significant Area' (EBSA) because of its importance in the life history of a wide variety of marine species, including kingklip, one of South Africa's most valuable and overexploited commercial species. It also protects important habitat for corals which provide protection to young fish. The other offshore MPA located to the immediate southwest of Block 11B/12B is the Southwest Indian Seamount North zone which covers an area of 7 500 km² with the majority of the shallower part consisting of un-trawled rocky shelf edge hosting several kinds of habitat forming cold-water corals at depths between 200 and 1 200 m.

6.3.2 Ecologically or Biologically Significant Areas (EBSAs)

A number of EBSAs separated into 'Conservation' zones or 'Impact Management' zones have been designated under recent marine spatial planning processes although no specific management actions have yet been formulated. The northern portion of Block 11B/12B overlaps with the Kingklip Corals EBSA which was identified to offer protection to Secret Reef, Kingklip Koppies and Kingklip Ridge which include newly discovered biogenic coral reef structures with fragile and sensitive corals, bryozoans and mollusc and crab species. These reefs are also important for aggregating phytoplankton and fish in the water column. The northern portion of the proposed new drill area has been revised to avoid overlap with the Kingklip Corals EBSA.

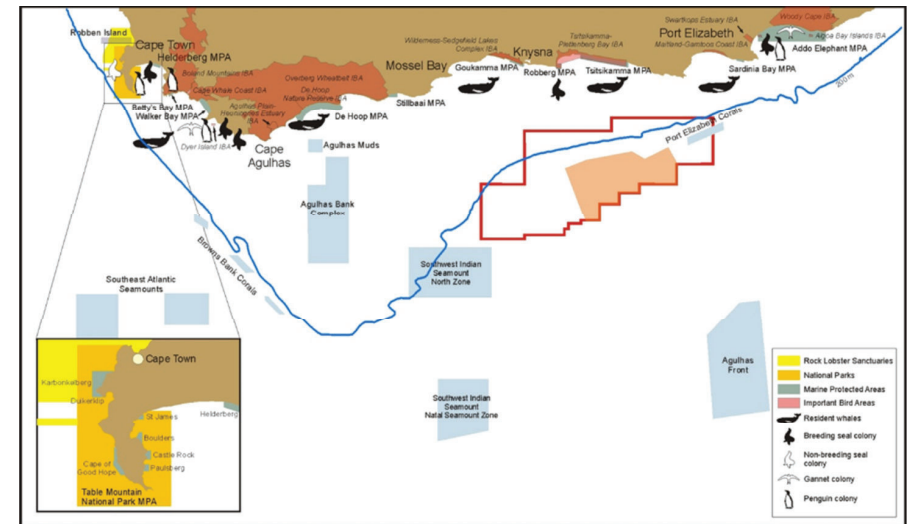


Figure 6. Marine Protected Areas and Important Bird Areas and location of seabird and seal colonies in relation to Block 11B/12B (red outline) and proposed new drill area (orange)

6.4 SOCIAL CONTEXT AND HUMAN UTILISATION

6.4.1 Administrative Authorities and Settlements

The regional study area spans the Western Cape and Eastern Cape Provinces, including two major metropolitan municipalities: the City of Cape Town to the west with a population of around 4.5 million, and Nelson Mandela Bay (Port Elizabeth) to the east with a population of 1.2 million. The coastline between Cape Town and Port Elizabeth spans three district municipalities of which two are located in the Western Cape (Overberg and Garden Route) and one in the Eastern Cape (Sarah Baartman). These are further divided into local municipalities, of which nine are located along the coast; Overstrand, Cape Agulhas, Hessequa, Mossel Bay, George, Knysna and Bitou in the Western Cape, and Kou-Kamma and Kouga (besides Nelson Mandela Bay Metro Municipality) in the Eastern Cape. The coastline supports extensive development with an estimated 173 coastal settlements between Cape Town and Port Elizabeth many of which extend in a linear fashion. Key towns along the South Coast are Mossel Bay, George, Knysna, Plettenberg Bay, Jeffrey's Bay and Port Elizabeth.

6.4.2 Tourism and Recreation

The South Coast is a popular tourism destination and comprises a number of coastal settlements between Cape Agulhas and Port Elizabeth which are linked by the N2 highway which runs through or around the larger towns of Mossel Bay, George, and Knysna and Jeffrey's Bay. Along the coastline the top tourism and recreational activities are focussed primarily on the scenic coastline with its rocky headlands and sandy beaches. Tourism in the nearshore includes activities such as sun-bathing, swimming, diving, boating, surfing and recreational fishing. Cape Town is a major gateway for international and domestic tourists to access the Garden Route which primarily is marketed as extending from Mossel Bay to Cape St Francis and Jeffrey's Bay (the latter being a popular surfing destination). The coastal towns and villages of the South Coast are popular with South African holiday makers during school holidays, particularly between December and January when most accommodation is booked up.

The coastal towns and surrounding areas have a good network of roads and are in general well equipped with infrastructure and services to support tourism with a range of accommodation facilities, restaurants, bars, banking, supermarkets, tour operators etc.

6.4.3 Commercial Fishing

A number of commercial fishing sectors operate in the shallow and deepwaters along the South Coast. Much of the fishing occurs in the shallow waters on the continental shelf of the Agulhas Bank to depths of 1 000 m and in Block 11B/12B these overlap with the northern portion along the Grue Bank and Kingklip Ridge. Fishing activities that are expected to occur in this northern zone of Block 11B/12B include the demersal trawl, midwater trawl and demersal longline fisheries but these are less likely to occur in the deeper water portion where drilling is proposed. Demersal trawling is South Africa's most valuable fishing sector targeting deep and shallow water hake. Fishing activities that are most likely to overlap with the deeper water portions of the proposed drill area are large pelagic long lining for tuna, swordfish and shark (mainly mako shark) which occurs over an extensive area in the South African EEZ and along the continental shelf break and further offshore (see Figure 7). Most long-lining vessels operate out of Cape Town and fishing occurs year-round with peak activity in winter (June) and spring. Other fisheries such as chokka squid, south coast rock lobster, traditional line fishing, small pelagic purse seine and some mariculture farms all occur in the nearshore area and are not expected to be affected by the proposed exploration activities.

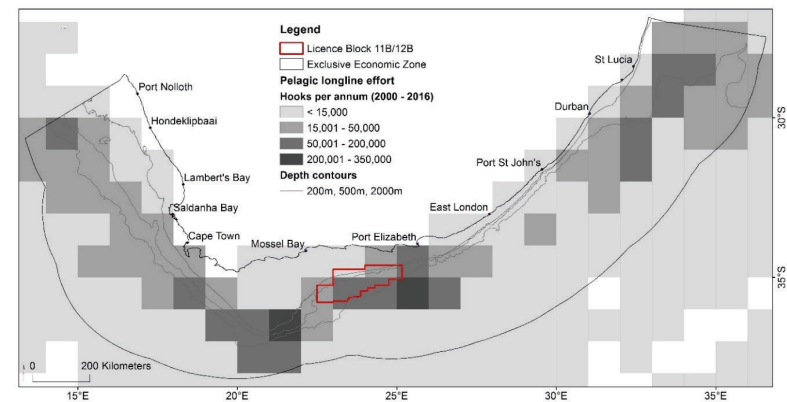


Figure 7: The national distribution of fishing effort of the long-line sector targeting large pelagic fish species in the South African EEZ (2000-2016)

6.4.4 Other Marine Activities or Infrastructure

Marine Traffic: A large number of vessels navigate along the South Coast on their way around the southern African subcontinent. Although the majority of vessel traffic, including commercial and fishing vessels, remains relatively close inshore a significant amounts of ship traffic can be anticipated to pass through the block. Important commercial harbours include Cape Town, Mossel Bay and Port Elizabeth. Small fishing harbours and slipways are located at Struis Bay, Arniston, Stilbaai, Plettenberg Bay and Cape St Francis.

Offshore Oil and Gas: There are currently no production activities in the vicinity of Block 11B/12B, although other oil and gas exploration activities are ongoing in adjacent and nearby blocks by TEPSA and other operators. PetroSA operates the F-A production platform approximately 85 kilometres south of Mossel Bay which processes gas and associated condensate from the associated gas fields and exports it via two pipelines to the PetroSA Gas to Liquids (GTL) plant located just outside the town of Mossel Bay.

Offshore Mining: While deposits of glauconite, phosphorite, phosphate and manganese occur on the sea floor and prospecting permits have been issued off the South Coast previously, no mining for these resources is underway.

Ammunition dumps: No historic ammunition dumps occur within Block 11B/12B.

Subsea cables: A submarine telecommunications cable system called "SAT3/SAFE" (South Atlantic Telecommunications cable no.3 / South Africa Far East) lies across the Atlantic and the Indian Ocean and passes well to the south of the Block 11B/12B. A safety zone of one nautical mile extends on both sides of the telecommunication cable in which no anchoring is permitted.

Offshore renewable energy: No offshore renewable energy projects are currently active in South Africa.

Wellheads: In the order of 330 wells have been drilled in the South African offshore, many associated with exploration and production activities undertaken in Block 9 by PetroSA. The Brulpadda exploration well is the only well drilled in Block 11B/12B to date, and the wellhead remains on the seafloor with an over trawlable cap.

6.4.5 Archaeological and Cultural Sites

Most of the 2 400 vessels known to have sunk, grounded, or been wrecked, abandoned or scuttled in South African waters since the early 1500s (Gribble 2018) are located in relatively shallow water close inshore. There is no knowledge of any such wrecks in deeper waters in the vicinity of Block 11B/12B.

7 ENVIRONMENTAL AND SOCIAL SCREENING AND KEY IMPACTS

7.1 ENVIRONMENTAL AND SOCIAL INTERACTION MATRIX

The environmental and social interaction matrix prepared for the proposed project is presented in Table 3. The matrix provides a list of the project activities and allows for easy checking of interaction against components of the receiving environment.

Table 3: Environmental and Social Interaction Matrix

| Project Phase | Resource / Receptors | Sensitive receptors in the receiving environment | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|---|---|--|---------------------------------------|-----------------------------|----------------------------------|----------------------|----------------------------|--------------------------------|---------------------------------|--|----------------------|---------|-------------------|-----------------------------|--------------------------|-----------------------------|----------------------------|---------------------|----------------|--|----------------------------|--|---------------------------------------|--|----------------------|
| | | Physical | | | Biological | | | | | | Socio-economic | | | | | | | | | | | | | | | | |
| | | Onshore land & water contamination | Water Column (incl. Water Quality, Noise and Turbidity) | Atmosphere (including Air Quality, Noise & Lighting) | Shaded Sediment and Profile | Fish & Plankton Communities | Benthic Habitats and Communities | Coastal marine birds | Turtles and Marine Mammals | Scallop Fisheries and Spawning | Marine Habitats and Communities | Protected Areas & other designated sensitive areas | Alien marine species | Fishing | Maritime Heritage | Marine Traffic / Navigation | Public Health and Safety | Infrastructure and Services | Recreation, Sense of Place | Employment & Income | | | | | | | |
| Planned Activities (Normal Operation) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Marine surveys | Controlled Source Electro-Magnetic (CSEM) surveys | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Drilling Activities | Mobilisation | Metocean Buoy Mooring | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Operation | Onshore logistics base (including liquid mud plant) | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Appointment of specialist service providers and staff | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Procurement, importation and transportation equipment & materials | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Accommodation rental and local spend (e.g. food and supplies) | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Transit of drilling unit and supply vessels to drill site | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Discharge or exchange of ballast water | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Presence and operation of drilling unit and support vessels (including waste management, water intake, air emissions and routine discharges to sea) | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Lighting from drill vessel | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Operation of helicopters | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Well drilling (including ROV site selection, installation of conductor pipes; well head, BOP and riser systems; well logging and plugging) | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Discharge of drill cuttings and drilling fluid and residual cement | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Vertical Seismic Profiling (VSP) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Well (flow) testing | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Demobilisation | Abandonment of well on sea floor | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Demobilisation of drill unit & supply vessels | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Demobilisation of logistics base, services and work force | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Unplanned Activities (Emergency Event) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| All | Vessel accident | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Operation | Dropped objects / lost equipment | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Hydrocarbon spills (minor) (e.g. bunkering, loss of BOP hydraulic fluid) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Loss of well control / Blow-out | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Colour key: | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="0"> <tr> <td style="width: 25px; height: 10px; background-color: white;"></td> <td>No interaction</td> <td style="width: 25px; height: 10px; background-color: #f4cccc;"></td> <td>Minor negative interaction</td> <td style="width: 25px; height: 10px; background-color: #e6f2ff;"></td> <td>Moderate / major negative interaction</td> <td style="width: 25px; height: 10px; background-color: #c6e0b4;"></td> <td>Positive interaction</td> </tr> </table> | | | | | | | | | | | | | | | | | | | | | No interaction | | Minor negative interaction | | Moderate / major negative interaction | | Positive interaction |
| | No interaction | | Minor negative interaction | | Moderate / major negative interaction | | Positive interaction | | | | | | | | | | | | | | | | | | | | |

7.2 KEY ENVIRONMENTAL AND SOCIAL IMPACTS

The significant issues identified during scoping that will be assessed by specific specialists are described below.

7.2.1 Effect on Marine Ecology

The proposed exploration activities could result in the following potential effects on marine and coastal ecology:

- Localised reduction in air quality due to emissions from the combustion of diesel fuel for generators and other machinery used to power the drilling operations and vessels, aviation fuel for aircrafts and helicopters, and well flow testing;
- Localised reduction in water quality due to normal discharges, as per MARPOL requirements, to the marine environment from a variety of sources, including deck drainage, machinery space drainage, sewage and galley wastes from the drilling unit and support vessels (including CSEM and metocean buoy mooring vessels);
- Localised disturbance of and / or behavioural changes to marine and coastal fauna due to increased ambient noise and lighting from the drilling unit, support vessels and helicopter operations;
- Localised disturbance of and / or behavioural changes to marine fauna due to increased underwater noise from drilling, vessels, and VSP.
- Sediment disturbance due to drilling activities and placement of infrastructure (e.g. CSEM and mooring buoy anchors) on the seafloor;
- Smothering of and biochemical effects (e.g. direct toxicity and bioaccumulation) on relatively immobile or sedentary benthic species due to the discharge of cuttings, drilling fluid and cement during well drilling;
- Increased biodiversity and biomass on wellhead due to hard substrate habitat available for colonisation by benthic organisms;
- Introduction of alien invasive marine species through international vessels and equipment transfer and ballast water discharge; and
- Localised and regional effect on water quality, marine fauna and oiling of coastal habitats (including MPAs) and seabirds due to accidental oil spills during normal operations (e.g. bunkering at sea), as well as the unlikely event of a large blow-out.

How issue will be addressed in the ESIA:

A marine ecology assessment will be commissioned to assess the potential impacts on the marine and coastal environment during normal drilling operations and upset conditions (small accidental spills and large blow-out).

Input obtained from drill cuttings and oil spill modelling study will be used to assess the potential impacts related to the discharge of drill cuttings and accidental oil spills. The modelling study will use the metocean data available for the licence area to model the following:

- The dispersion and concentration of drilling cuttings and associated mud discharges to determine the thickness and extent of deposited material on the seabed; and
- The trajectory, extent and fate of oil spills due to a well blow-out.

In order to assess the potential underwater noise impact on marine fauna from drilling activities, input will be obtained from a noise modelling specialist. This input will aim to, *inter alia*, describe the likely background noise levels and determine underwater noise transmission loss with distance from the drill site.

7.2.2 Impacts on Commercial Fisheries

The proposed exploration activities could potentially affect commercial fishing activities, as a result of fish disturbance from the CSEM survey; fishing exclusion from the proposed 500 m to 2 km operational safety zones around the drilling unit; increased underwater noise disturbance during drilling, the abandonment of the wellheads on the seafloor and accidental oil spills during normal operations, as well as the unlikely event of a large blow-out. Potential impacts are related to:

- Exclusion of fishing within safety zones;
- Noise disturbance from drilling and VSP activities on fish and fishing activities; and
- Discharge of drill cuttings on fish and fishing.

How issue will be addressed in the ESIA:

A commercial fisheries assessment will be commissioned to, *inter alia*, determine the fishing effort and catch of all fisheries operating off the coast of South Africa in relation to the licence area. It will also assess the impact that the proposed project will have on these sectors during normal drilling operations and upset conditions (small accidental spills and large blow-out) with input from the noise modelling specialist and oil spill modelling.

The commercial fisheries assessment, as will be undertaken for the marine fauna assessment, will use the findings of both the drill cuttings and oil spill modelling study and underwater noise assessment to assess the potential impact on commercial fish from drilling activities.

7.2.3 Impacts on Social Environment

The proposed exploration activities could potentially result in some social benefits. Given the isolated nature of the exploration area, the potential for direct social impacts is considered negligible outside of the short-term disruption of commercial fisheries (addressed in Section 7.2.2 above). More direct localised impacts are possible in relation to: (i) onshore operations at either the Port of Mossel Bay, Cape Town or Port Elizabeth, (ii) movement of support vessels and helicopters from the logistics base to the drilling site, as well as (iii) the unlikely event of a well blow-out or vessel collision:

In summary, negative social impacts may include:

- Loss of employment and income related to disruption of commercial fisheries;
- Pressure on municipal / port infrastructure and services for a logistics base and associated requirements;
- Noise disturbance / nuisance to coastal residents and users from helicopter transfers;
- Alteration in perceived sense of place;
- Possible pollution of coastline with impacts on fisheries, tourism and recreation in unlikely event of an unplanned event (e.g. well blowout or oil spill from vessel collision or bunkering).
- Potential vessel strikes or accidents with recreational fishing boats, pleasure craft and other marine recreational activities during the approach near the logistics base port which may pose a public health and safety risk.

Positive social impacts may include:

- Creation of some limited jobs, mainly for skilled specialists in oil and gas sector;
- Limited economic benefits related to provision of local business development opportunities;
- Economic benefits from provision of crew accommodation, meals, and retail services for drilling-related contractors;
- Economic benefits from rental and use of quay space, port facilities, fuel supplies and related services.

How issue will be addressed in the ESIA:

A Social Impact Assessment (SIA) will be commissioned to, *inter alia*, provide an overview of the social context of the project and determine the potential social impacts and benefits associated with the proposed exploration drilling and associated activities, including unplanned events. The SIA will draw on information provided by related modelling studies, notably the oil spill modelling.

7.3 SUMMARY OF KEY ENVIRONMENTAL AND SOCIAL IMPACTS AND PRELIMINARY MITIGATION

A summary of key impacts of potential significance and their preliminary mitigation measures are summarised in Table 4. These impacts are indicative based on previous exploration drilling activities and will be formally assessed by the specialists during the ESIA including the use of new modelling information.

Table 4: Summary of Key Impacts and Mitigation

| Project Activity | Predicted Impacts | Preliminary Mitigation Measures |
|---|--|---|
| Investment in O&G sector | <ul style="list-style-type: none"> • Contribution to national economy. | |
| Procurement of local service providers and employment | <ul style="list-style-type: none"> • Procurement of local service providers for onshore base and helicopter transfers etc. • Employment of a few skilled and semi-skilled staff (e.g. logistics base). | <ul style="list-style-type: none"> • Prioritise procurement of local service providers where possible (although drilling is highly specialised activity and there will be limited work force opportunities for unskilled positions). |
| Procurement of local goods and services (e.g. accommodation and food) | <ul style="list-style-type: none"> • Increased (but limited) local spend in south coast towns. | <ul style="list-style-type: none"> • Maximise use of local accommodation and other service providers. |
| Discharge of ballast water | <ul style="list-style-type: none"> • Discharge of ballast water, particularly when vessels are in transit to and from the drilling area, may contaminate sea water and marine life and spread alien invasive species. | <ul style="list-style-type: none"> • Compliance with requirements of the 2004 International Convention for the Control and Management of Ships' Ballast Water and Sediments. |
| Safety protection zones around drilling unit and support vessels | <ul style="list-style-type: none"> • Exclusion of fishing activities within 500 m to 2 km safety zones during operational activities. These include the 3 to 5-month drilling period around the | <ul style="list-style-type: none"> • Notification of other users of the sea ahead of and during activities through issuing a Notice to Mariners and radio navigation warnings. |

| | | |
|---|---|---|
| | drill unit; up to 6 weeks during CSEM activities and around up to five mooring buoys for up to one year. | |
| Discharge of effluent to sea (e.g. grey water, sewage, deck drainage) from drilling unit and vessels | <ul style="list-style-type: none"> Contamination of sea water and physiological effects on marine fauna; Increased attraction of plankton, fish and other fauna to the drilling area. | <ul style="list-style-type: none"> Adherence to MARPOL standards for discharges to sea. |
| Increased ambient noise from helicopters | <ul style="list-style-type: none"> Disturbance of seals and sea birds along coast; Disturbance / loss of sense of place of residents and tourists. | <ul style="list-style-type: none"> Minimum flying heights and flight paths to avoid sensitive habitats. |
| Discharge of drill cuttings from drilling unit and sediment disturbance on sea floor during drilling operations | <ul style="list-style-type: none"> Increased sea water turbidity and water quality contamination from sediment plume and physiological effects and disturbance of fish and other marine fauna; Smothering of benthic fauna on seafloor from deposition of cuttings and excess cement. | <ul style="list-style-type: none"> Water-based muds (WBMs) (drilling fluids) will be used (low toxicity); Affected area expected to be relatively localised and to recover naturally through movement of bottom currents. |
| Generation of underwater noise from drilling and vessel activity and VSP | <ul style="list-style-type: none"> Disturbance of marine fauna, particularly whales and dolphins, from exploration area; Displacement of fish and fishing. | <ul style="list-style-type: none"> Potentially limiting certain exploration activities to periods of low cetacean activity. Appoint vessel MMOs during VSP. Implement 'soft start' to VSP activities for slow ramp up of power output. |
| Leaving subsea well infrastructure on seafloor | <ul style="list-style-type: none"> Interference with trawling activities or fishing equipment. | <ul style="list-style-type: none"> Well heads left on seafloor will have over-trawl structure in place to mitigate impacts on trawling activities. |
| Potential unplanned events such as well blow out, dropped objects or fuel loss during bunkering | <ul style="list-style-type: none"> Pollution of marine life including possible mortality of fauna; Oiling of sensitive coastal habitats in unlikely event of a major spill; Large dropped objects may interfere with fishing activities or damage fishing equipment. | <ul style="list-style-type: none"> Compliance with standard good industry practice. Oil Spill Contingency Plan to be approved prior to the commencement of the operations. |

Candice Sadan

From: Candice Sadan
Sent: Friday, 19 June 2020 13:31
To: cfordham@capenature.co.za
Subject: TOTAL E&P SOUTH AFRICA B.V. – ESIA FOR ADDITIONAL EXPLORATION DRILLING AND ASSOCIATED ACTIVITIES IN BLOCK 11B/12B OFF THE SOUTH COAST OF SOUTH AFRICA: NOTIFICATION OF AVAILABILITY OF DRAFT SCOPING REPORT FOR REVIEW AND COMMENT

Attachments: TEPSA_11B12B_DSR_Exec_Summary.pdf; 2020-06-19_TEPSA11B12B_CapeNature_DSR Notification.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Dear Sir / Madam

This correspondence provides notice in terms of the Environmental Impact Assessment Regulations 2014 (as amended) promulgated in terms of the National Environmental Management Act, 1998 (No. 107 of 1998) (NEMA) of an Application for environmental Authorisation for the above-mentioned project. Refer to the attached letter and Executive Summary provide more information.

Due to COVID-19 related concerns, only an electronic copy of the report has been made available. A copy of the full DSR is available for download from the SLR website (at <http://slrconsulting.com/za/slr-documents/tepsa11b12b>) or using the link to the SLR the file-transfer service included below:

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Should you have any queries in this regard please do not hesitate to contact the undersigned (**Note:** Please use '11B12B' in the subject line in any submissions in this matter).

Yours sincerely,
Candice Sadan

Candice Sadan

Office Administrator

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 csadan@slrconsulting.com

SLR Consulting
SLR Consulting (Cape Town office)
5th Floor, Letterstedt House, Newlands on Main
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Project Reference: 720.20047.00005

File Ref. 2020-06-19_TEPSA11B12B_CapeNature_DSR Notification.docx

19 June 2020

CAPENATURE

Private Bag X5014
Stellenbosch
7599

ATTENTION: MR C. FORDHAM

Dear Sir

TOTAL E&P SOUTH AFRICA B.V. – ESIA FOR ADDITIONAL EXPLORATION DRILLING AND ASSOCIATED ACTIVITIES IN BLOCK 11B/12B OFF THE SOUTH COAST OF SOUTH AFRICA: NOTIFICATION OF AVAILABILITY OF DRAFT SCOPING REPORT FOR REVIEW AND COMMENT

Total E&P South Africa B.V. (“TEPSA”) and its partners hold an exploration right over Block 11B/12B located between 45 km to 130 km off the South Coast of South Africa. Existing Environmental Authorisation (EA) enables TEPSA to undertake various exploration activities across the block including drilling in a defined area in the western portion of the block. To better confirm the hydrocarbon resources in the area, TEPSA wishes to undertake additional exploration drilling in the eastern portion of the block and associated activities in Block 11B/12B.

This correspondence provides notice in terms of the Environmental Impact Assessment Regulations 2014 (as amended) promulgated in terms of the National Environmental Management Act, 1998 (No. 107 of 1998) (NEMA) of an Application for EA by TEPSA to undertake the proposed additional exploration activities.

SLR Consulting (South Africa) (Pty) Ltd (“SLR”) has been appointed by TEPSA to undertake the Environmental and Social Impact Assessment (ESIA) process for the proposed project. As part of this ESIA process, notice is hereby given, that the Draft Scoping Report (DSR) compiled for the above-mentioned project is available for a 30-day review and comment period from **19 June to 20 July 2020**. A copy of the Executive Summary of the DSR is attached for your reference. A copy of the full DSR is available on the SLR website (at <http://slrconsulting.com/za/slr-documents/tepsa11b12b>).

In accordance with the EIA Regulations, 2014 (as amended), you and / or your organisation are hereby invited to register as an Interested and Affected Party (I&AP) for the proposed project and / or comment on the Scoping Report for the proposed project. Due to COVID-19 related restrictions on public gatherings, no public meetings will be held at this stage of the ESIA process. However, should you wish to be invited to the planned online meeting, where additional information regarding the proposed project would be presented, please register by **25 June 2020** by sending an email to the address below.



SLR Consulting (South Africa) Proprietary Limited

Registered Address: Suite 1 - Building D, Monte Circle, 178 Montecasino Boulevard,
Fourways, Johannesburg, Gauteng, 2191

Postal Address: PO Box 1596, Cramerview, 2060, South Africa

Reg. No: 2007/005517/07

Vat No: 4630242198

Directors: R Hounsoume, F Fredericks, D Junak

Johannesburg Office: Physical Address: Suite 1 - Building D, Monte Circle,
178 Montecasino Boulevard, Fourways, Johannesburg, Gauteng, 2191

Postal Address: PO Box 1596, Cramerview, 2060 Tel: +27 11 467 0945

Cape Town Office: Physical Address: 5th Floor, Letterstedt House, Newlands on Main,
Cnr Main and Campground Roads, Newlands, Cape Town, Western Cape, 7700

Postal Address: PO Box 10145, Caledon Square, 7905 Tel: +27 21 461 1118

www.slrconsulting.com



For issues and/or comments to be included in the Final Scoping Report they should be forwarded to SLR (using the details provided below) by **no later than 20 July 2020**.

Note: Please use '11B12B' in the subject line in any submissions in this matter.

Ms Candice Sadan
SLR Consulting (South Africa) (Pty) Ltd
PO Box 10145, Caledon Square, 7905
5th Floor, Newlands on Main Building, Newlands, 7700
Tel: (021) 461 1118
E-mail: csadan@slrconsulting.com

Should you have any queries in this regard please do not hesitate to contact the undersigned.

Yours sincerely,

Candice Sadan

Candice Sadan

From: Candice Sadan
Sent: Friday, 19 June 2020 13:33
To: adri.lameyer@westerncape.gov.za
Subject: TOTAL E&P SOUTH AFRICA B.V. – ESIA FOR ADDITIONAL EXPLORATION DRILLING AND ASSOCIATED ACTIVITIES IN BLOCK 11B/12B OFF THE SOUTH COAST OF SOUTH AFRICA: NOTIFICATION OF AVAILABILITY OF DRAFT SCOPING REPORT FOR REVIEW AND COMMENT
Attachments: 2020-06-19_TEPSA11B12B_DEADP_DSR Notification.pdf; TEPSA_11B12B_DSR_Exec_Summary.pdf
Follow Up Flag: Follow up
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Yours sincerely,
Candice Sadan

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Project Reference: 720.20047.00005

File Ref. 2020-06-19_TEPSA11B12B_ECPTA_DSR Notification.docx

19 June 2020

WESTERN CAPE: DEPARTMENT OF ENVIRONMENTAL AFFAIRS & DEVELOPMENT PLANNING

1 Dorp Street
Cape Town
8001

ATTENTION: MS A. LA MEYER

Dear Madam

TOTAL E&P SOUTH AFRICA B.V. – ESIA FOR ADDITIONAL EXPLORATION DRILLING AND ASSOCIATED ACTIVITIES IN BLOCK 11B/12B OFF THE SOUTH COAST OF SOUTH AFRICA: NOTIFICATION OF AVAILABILITY OF DRAFT SCOPING REPORT FOR REVIEW AND COMMENT

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SLR Consulting (South Africa) Proprietary Limited

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Directors: R Hounsoume, F Fredericks, D Junak

Johannesburg Office: Physical Address: Suite 1 - Building D, Monte Circle,
178 Montecasino Boulevard, Fourways, Johannesburg, Gauteng, 2191
Postal Address: PO Box 1596, Cramerview, 2060 Tel: +27 11 467 0945

Cape Town Office: Physical Address: 5th Floor, Letterstedt House, Newlands on Main,
Cnr Main and Campground Roads, Newlands, Cape Town, Western Cape, 7700
Postal Address: PO Box 10145, Caledon Square, 7905 Tel: +27 21 461 1118

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where additional information regarding the proposed project would be presented, please register by **25 June 2020** by sending an email to the address below.

For issues and/or comments to be included in the Final Scoping Report they should be forwarded to SLR (using the details provided below) by **no later than 20 July 2020**.

Note: Please use '11B12B' in the subject line in any submissions in this matter.

Ms Candice Sadan
SLR Consulting (South Africa) (Pty) Ltd
PO Box 10145, Caledon Square, 7905
5th Floor, Newlands on Main Building, Newlands, 7700
Tel: (021) 461 1118
E-mail: csadan@slrconsulting.com

Should you have any queries in this regard please do not hesitate to contact the undersigned.

Yours sincerely,

Candice Sadan

Candice Sadan

From: Candice Sadan
Sent: Friday, 19 June 2020 13:47
To: JanetC@daff.gov.za
Cc: JeanGM@daff.gov.za; SueM@daff.gov.za; BernaciaM@daff.gov.za; AbongileN@daff.gov.za; DeonD@daff.gov.za; kimp@daff.gov.za; ArnoM@nda.agric.za; arnom@daff.gov.za
Subject: TOTAL E&P SOUTH AFRICA B.V. – ESIA FOR ADDITIONAL EXPLORATION DRILLING AND ASSOCIATED ACTIVITIES IN BLOCK 11B/12B OFF THE SOUTH COAST OF SOUTH AFRICA: NOTIFICATION OF AVAILABILITY OF DRAFT SCOPING REPORT FOR REVIEW AND COMMENT
Attachments: 2020-06-19_TEPSA11B12B_DEFF-Fisheries_DSR Notification.pdf; TEPSA_11B12B_DSR_Exec_Summary.pdf
Follow Up Flag: Follow up
Flag Status: Flagged

Dear Sir / Madam

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Should you have any queries in this regard please do not hesitate to contact the undersigned (**Note:** Please use '11B12B' in the subject line in any submissions in this matter).

Yours sincerely,
Candice Sadan

Candice Sadan

Office Administrator

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 csadan@slrconsulting.com

SLR Consulting
SLR Consulting (Cape Town office)
5th Floor, Letterstedt House, Newlands on Main
Cnr Main and Campground Roads
Newlands
Cape Town, 7700



Project Reference: 720.20047.00005

File Ref. 2020-06-19_TEPSA11B12B_O&C_DSR Notification.docx

19 June 2020

DEPARTMENT OF ENVIRONMENT, FORESTRY AND FISHERIES

Branch: Fisheries
Foretrust Building
Martin Hammerschlag Way
Foreshore
Cape Town
8000

ATTENTION: MS JANET COETZEE

Dear Madam

TOTAL E&P SOUTH AFRICA B.V. – ESIA FOR ADDITIONAL EXPLORATION DRILLING AND ASSOCIATED ACTIVITIES IN BLOCK 11B/12B OFF THE SOUTH COAST OF SOUTH AFRICA: NOTIFICATION OF AVAILABILITY OF DRAFT SCOPING REPORT FOR REVIEW AND COMMENT

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SLR Consulting (South Africa) Proprietary Limited

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Reg. No: 2007/005517/07

Vat No: 4630242198

Directors: R Hounsoume, F Fredericks, D Junak

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Report for the proposed project. Due to COVID-19 related restrictions on public gatherings, no public meetings will be held at this stage of the ESIA process. However, should you wish to be invited to the planned online meeting, where additional information regarding the proposed project would be presented, please register by **25 June 2020** by sending an email to the address below.

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Ms Candice Sadan
SLR Consulting (South Africa) (Pty) Ltd
PO Box 10145, Caledon Square, 7905
5th Floor, Newlands on Main Building, Newlands, 7700
Tel: (021) 461 1118
E-mail: csadan@slrconsulting.com

Should you have any queries in this regard please do not hesitate to contact the undersigned.

Yours sincerely,

Candice Sadan

Candice Sadan

From: Candice Sadan
Sent: Friday, 19 June 2020 13:42
To: msolomons@environment.gov.za
Cc: tmbambo@environment.gov.za
Subject: TOTAL E&P SOUTH AFRICA B.V. – ESIA FOR ADDITIONAL EXPLORATION DRILLING AND ASSOCIATED ACTIVITIES IN BLOCK 11B/12B OFF THE SOUTH COAST OF SOUTH AFRICA: NOTIFICATION OF AVAILABILITY OF DRAFT SCOPING REPORT FOR REVIEW AND COMMENT
Attachments: TEPSA_11B12B_DSR_Exec_Summary.pdf; 2020-06-19_TEPSA11B12B_DEFF_DSR Notification.pdf
Follow Up Flag: Follow up
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Dear Sir / Madam

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Yours sincerely,
Candice Sadan

Candice Sadan
Office Administrator

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Newlands
Cape Town, 7700



Project Reference: 720.20047.00005

File Ref. 2020-06-19_TEPSA11B12B_DEFF_DSR Notification.docx

19 June 2020

DEPARTMENT OF ENVIRONMENT, FORESTRY AND FISHERIES (DEFF)

Private Bag X447
PRETORIA
0001

ATTENTION: MS M. MILICENT

Dear Madam

TOTAL E&P SOUTH AFRICA B.V. – ESIA FOR ADDITIONAL EXPLORATION DRILLING AND ASSOCIATED ACTIVITIES IN BLOCK 11B/12B OFF THE SOUTH COAST OF SOUTH AFRICA: NOTIFICATION OF AVAILABILITY OF DRAFT SCOPING REPORT FOR REVIEW AND COMMENT

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Note: Please use '11B12B' in the subject line in any submissions in this matter.

Ms Candice Sadan
SLR Consulting (South Africa) (Pty) Ltd
PO Box 10145, Caledon Square, 7905
5th Floor, Newlands on Main Building, Newlands, 7700
Tel: (021) 461 1118
E-mail: csadan@slrconsulting.com

Should you have any queries in this regard please do not hesitate to contact the undersigned.

Yours sincerely,

Candice Sadan

Candice Sadan

From: Candice Sadan
Sent: Friday, 19 June 2020 13:35
To: thabane.zulu@energy.gov.za
Subject: TOTAL E&P SOUTH AFRICA B.V. – ESIA FOR ADDITIONAL EXPLORATION DRILLING AND ASSOCIATED ACTIVITIES IN BLOCK 11B/12B OFF THE SOUTH COAST OF SOUTH AFRICA: NOTIFICATION OF AVAILABILITY OF DRAFT SCOPING REPORT FOR REVIEW AND COMMENT
Attachments: TEPSA_11B12B_DSR_Exec_Summary.pdf; 2020-06-19_TEPSA11B12B_DMRE_DSR Notification.pdf
Follow Up Flag: Follow up
Flag Status: Flagged

Dear Sir / Madam

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Yours sincerely,
Candice Sadan

Candice Sadan
Office Administrator

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SLR Consulting
SLR Consulting (Cape Town office)
5th Floor, Letterstedt House, Newlands on Main
Cnr Main and Campground Roads
Newlands
Cape Town, 7700



Project Reference: 720.20047.00005

File Ref. 2020-06-19_TEPSA11B12B_DEFF-Fisheries_DSR Notification.docx

19 June 2020

DEPARTMENT OF MINERAL RESOURCES AND ENERGY

Director General
Private Bag X96
Pretoria
0001

ATTENTION: MR T. ZULU

Dear Sir

TOTAL E&P SOUTH AFRICA B.V. – ESIA FOR ADDITIONAL EXPLORATION DRILLING AND ASSOCIATED ACTIVITIES IN BLOCK 11B/12B OFF THE SOUTH COAST OF SOUTH AFRICA: NOTIFICATION OF AVAILABILITY OF DRAFT SCOPING REPORT FOR REVIEW AND COMMENT

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Tel: (021) 461 1118
E-mail: csadan@slrconsulting.com

Should you have any queries in this regard please do not hesitate to contact the undersigned.

Yours sincerely,

Candice Sadan

Candice Sadan

From: Candice Sadan
Sent: Friday, 19 June 2020 13:36
To: dayalan.govender@dedea.gov.za
Subject: TOTAL E&P SOUTH AFRICA B.V. – ESIA FOR ADDITIONAL EXPLORATION DRILLING AND ASSOCIATED ACTIVITIES IN BLOCK 11B/12B OFF THE SOUTH COAST OF SOUTH AFRICA: NOTIFICATION OF AVAILABILITY OF DRAFT SCOPING REPORT FOR REVIEW AND COMMENT
Attachments: TEPSA_11B12B_DSR_Exec_Summary.pdf; 2020-06-19_TEPSA11B12B_ECDEDET_DSR Notification.pdf
Follow Up Flag: Follow up
Flag Status: Flagged

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Yours sincerely,
Candice Sadan

Candice Sadan

Office Administrator

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SLR Consulting
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Newlands
Cape Town, 7700



Project Reference: 720.20047.00005

File Ref: 2020-06-19_TEPSA11B12B_ECDEDET_DSR Notification.docx

19 June 2020

EASTERN CAPE: ECONOMIC DEVELOPMENT, ENVIRONMENTAL AFFAIRS AND TOURISM

Private Bag X5001
Greenacres
PORT ELIZABETH
6057

ATTENTION: MR D. GOVENDER

Dear Sir

TOTAL E&P SOUTH AFRICA B.V. – ESIA FOR ADDITIONAL EXPLORATION DRILLING AND ASSOCIATED ACTIVITIES IN BLOCK 11B/12B OFF THE SOUTH COAST OF SOUTH AFRICA: NOTIFICATION OF AVAILABILITY OF DRAFT SCOPING REPORT FOR REVIEW AND COMMENT

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Directors: R Hounsoume, F Fredericks, D Junak

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Ms Candice Sadan
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Tel: (021) 461 1118
E-mail: csadan@slrconsulting.com

Should you have any queries in this regard please do not hesitate to contact the undersigned.

Yours sincerely,

Candice Sadan

Candice Sadan

From: Candice Sadan
Sent: Friday, 19 June 2020 15:06
To: malaika.kaoli-lebona@ecpta.co.za
Subject: FW: TOTAL E&P SOUTH AFRICA B.V. – ESIA FOR ADDITIONAL EXPLORATION DRILLING AND ASSOCIATED ACTIVITIES IN BLOCK 11B/12B OFF THE SOUTH COAST OF SOUTH AFRICA: NOTIFICATION OF AVAILABILITY OF DRAFT SCOPING REPORT FOR REVIEW AND COMMENT
Attachments: 2020-06-19_TEPSA11B12B_ECPTA_DSR Notification.pdf; TEPSA_11B12B_DSR_Exec_Summary.pdf

Follow Up Flag: Follow up
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Dear Sir / Madam

Please find email below, with attachments, sent to Ms Bev Geach.

Her out of office message advises us to send correspondence to your address. Please may we ask if you could kindly forward this email to the relevant parties that need to be notified?

Thanking you in advance.

Your sincerely
Candice Sadan

Candice Sadan

Office Administrator

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 csadan@slrconsulting.com

SLR Consulting
SLR Consulting (Cape Town office)
5th Floor, Letterstedt House, Newlands on Main
Cnr Main and Campground Roads
Newlands
Cape Town, 7700

From: Candice Sadan <csadan@slrconsulting.com>
Sent: Friday, 19 June 2020 13:38
To: bev.geach@ecpta.co.za
Subject: TOTAL E&P SOUTH AFRICA B.V. – ESIA FOR ADDITIONAL EXPLORATION DRILLING AND ASSOCIATED ACTIVITIES IN BLOCK 11B/12B OFF THE SOUTH COAST OF SOUTH AFRICA: NOTIFICATION OF AVAILABILITY OF DRAFT SCOPING REPORT FOR REVIEW AND COMMENT

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Yours sincerely,
Candice Sadan

Candice Sadan
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Cape Town, 7700

Project Reference: 720.20047.00005

File Ref. 2020-06-19_TEPSA11B12B_ECPTA_DSR Notification.docx

19 June 2020

EASTERN CAPE PARKS AND TOURISM AGENCY

17-25 Oxford Street
East London CBD
5201

ATTENTION: MS B. GEACH

Dear Madam

TOTAL E&P SOUTH AFRICA B.V. – ESIA FOR ADDITIONAL EXPLORATION DRILLING AND ASSOCIATED ACTIVITIES IN BLOCK 11B/12B OFF THE SOUTH COAST OF SOUTH AFRICA: NOTIFICATION OF AVAILABILITY OF DRAFT SCOPING REPORT FOR REVIEW AND COMMENT

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Postal Address: PO Box 1596, Cramerview, 2060, South Africa

Reg. No: 2007/005517/07

Vat No: 4630242198

Directors: R Hounsome, F Fredericks, D Junak

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Note: Please use '11B12B' in the subject line in any submissions in this matter.

Ms Candice Sadan
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PO Box 10145, Caledon Square, 7905
5th Floor, Newlands on Main Building, Newlands, 7700
Tel: (021) 461 1118
E-mail: csadan@slrconsulting.com

Should you have any queries in this regard please do not hesitate to contact the undersigned.

Yours sincerely,

Candice Sadan

Candice Sadan

From: Candice Sadan
Sent: Friday, 19 June 2020 15:41
To: info@ecpta.co.za
Subject: FW: TOTAL E&P SOUTH AFRICA B.V. – ESIA FOR ADDITIONAL EXPLORATION DRILLING AND ASSOCIATED ACTIVITIES IN BLOCK 11B/12B OFF THE SOUTH COAST OF SOUTH AFRICA: NOTIFICATION OF AVAILABILITY OF DRAFT SCOPING REPORT FOR REVIEW AND COMMENT
Attachments: 2020-06-19_TEPSA11B12B_ECPTA_DSR Notification.pdf; TEPSA_11B12B_DSR_Exec_Summary.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Candice Sadan

Office Administrator

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SLR Consulting
SLR Consulting (Cape Town office)
5th Floor, Letterstedt House, Newlands on Main
Cnr Main and Campground Roads
Newlands
Cape Town, 7700

From: Candice Sadan <csadan@slrconsulting.com>
Sent: Friday, 19 June 2020 15:06
To: malaika.kaoli-lebona@ecpta.co.za
Subject: FW: TOTAL E&P SOUTH AFRICA B.V. – ESIA FOR ADDITIONAL EXPLORATION DRILLING AND ASSOCIATED ACTIVITIES IN BLOCK 11B/12B OFF THE SOUTH COAST OF SOUTH AFRICA: NOTIFICATION OF AVAILABILITY OF DRAFT SCOPING REPORT FOR REVIEW AND COMMENT

Dear Sir / Madam

Please find email below, with attachments, sent to Ms Bev Geach.

Her out of office message advises us to send correspondence to your address. Please may we ask if you could kindly forward this email to the relevant parties that need to be notified?

Thanking you in advance.

Your sincerely
Candice Sadan

Candice Sadan

Office Administrator

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 csadan@slrconsulting.com

SLR Consulting
SLR Consulting (Cape Town office)
5th Floor, Letterstedt House, Newlands on Main

From: Candice Sadan <csadan@slrconsulting.com>

Sent: Friday, 19 June 2020 13:38

To: bev.geach@ecpta.co.za

Subject: TOTAL E&P SOUTH AFRICA B.V. – ESIA FOR ADDITIONAL EXPLORATION DRILLING AND ASSOCIATED ACTIVITIES IN BLOCK 11B/12B OFF THE SOUTH COAST OF SOUTH AFRICA: NOTIFICATION OF AVAILABILITY OF DRAFT SCOPING REPORT FOR REVIEW AND COMMENT

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Yours sincerely,
Candice Sadan

Candice Sadan

Office Administrator

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Newlands
Cape Town, 7700

19 June 2020

EASTERN CAPE PARKS AND TOURISM AGENCY

17-25 Oxford Street
East London CBD
5201

ATTENTION: MS B. GEACH

Dear Madam

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PO Box 10145, Caledon Square, 7905
5th Floor, Newlands on Main Building, Newlands, 7700
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E-mail: csadan@slrconsulting.com

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Candice Sadan



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Candice Sadan

From: Candice Sadan
Sent: Friday, 19 June 2020 13:38
To: bev.geach@ecpta.co.za
Subject: TOTAL E&P SOUTH AFRICA B.V. – ESIA FOR ADDITIONAL EXPLORATION DRILLING AND ASSOCIATED ACTIVITIES IN BLOCK 11B/12B OFF THE SOUTH COAST OF SOUTH AFRICA: NOTIFICATION OF AVAILABILITY OF DRAFT SCOPING REPORT FOR REVIEW AND COMMENT
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Yours sincerely,
Candice Sadan

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Cape Town, 7700

19 June 2020

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Candice Sadan

From: Candice Sadan
Sent: Friday, 19 June 2020 13:40
To: admin@mosselbay.gov.za
Subject: TOTAL E&P SOUTH AFRICA B.V. – ESIA FOR ADDITIONAL EXPLORATION DRILLING AND ASSOCIATED ACTIVITIES IN BLOCK 11B/12B OFF THE SOUTH COAST OF SOUTH AFRICA: NOTIFICATION OF AVAILABILITY OF DRAFT SCOPING REPORT FOR REVIEW AND COMMENT
Attachments: TEPSA_11B12B_DSR_Exec_Summary.pdf; 2020-06-19_TEPSA11B12B_MBLM_DSR Notification.pdf
Follow Up Flag: Follow up
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Candice Sadan

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Office Administrator

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SLR Consulting
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Cape Town, 7700

Project Reference: 720.20047.00005

File Ref. 2020-06-19_TEPSA11B12B_MBLM_DSR Notification.docx

19 June 2020

MOSSEL BAY MUNICIPALITY

101 Marsh Street
Mossel Bay
6500

ATTENTION: ADV T. GILIOME

Dear Sir

TOTAL E&P SOUTH AFRICA B.V. – ESIA FOR ADDITIONAL EXPLORATION DRILLING AND ASSOCIATED ACTIVITIES IN BLOCK 11B/12B OFF THE SOUTH COAST OF SOUTH AFRICA: NOTIFICATION OF AVAILABILITY OF DRAFT SCOPING REPORT FOR REVIEW AND COMMENT

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SLR Consulting (South Africa) Proprietary Limited

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Candice Sadan

From: Candice Sadan
Sent: Friday, 19 June 2020 13:45
To: fditinti@environment.gov.za
Cc: jbeaumont@environment.gov.za; lmudau2@environment.gov.za; anaidoo@environment.gov.za; ntonjeni@environment.gov.za
Subject: TOTAL E&P SOUTH AFRICA B.V. – ESIA FOR ADDITIONAL EXPLORATION DRILLING AND ASSOCIATED ACTIVITIES IN BLOCK 11B/12B OFF THE SOUTH COAST OF SOUTH AFRICA: NOTIFICATION OF AVAILABILITY OF DRAFT SCOPING REPORT FOR REVIEW AND COMMENT
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Office Administrator

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Cnr Main and Campground Roads
Newlands
Cape Town, 7700

19 June 2020

DEPARTMENT OF ENVIRONMENT, FORESTRY AND FISHERIES

Branch: Oceans and Coast
 East Pier Building
 East Pair Road
 Victoria and Alfred Waterfront
 CAPE TOWN
 8000

ATTENTION: MS. FUNANANI DITINTI

Dear Madam

TOTAL E&P SOUTH AFRICA B.V. – ESIA FOR ADDITIONAL EXPLORATION DRILLING AND ASSOCIATED ACTIVITIES IN BLOCK 11B/12B OFF THE SOUTH COAST OF SOUTH AFRICA: NOTIFICATION OF AVAILABILITY OF DRAFT SCOPING REPORT FOR REVIEW AND COMMENT

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Candice Sadan

From: Candice Sadan
Sent: Friday, 19 June 2020 13:25
To: ngesip@petroleumagencysa.com
Cc: mtshemlam@petroleumagencysa.com; qwakan@petroleumagencysa.com; mushwanas@petroleumagencysa.com; vanderspuyd@petroleumagencysa.com; eduard.groenewald@external.total.com; Jonathan Crowther
Subject: TOTAL E&P SOUTH AFRICA B.V. – ESIA FOR ADDITIONAL EXPLORATION DRILLING AND ASSOCIATED ACTIVITIES IN BLOCK 11B/12B OFF THE SOUTH COAST OF SOUTH AFRICA: NOTIFICATION OF AVAILABILITY OF DRAFT SCOPING REPORT FOR REVIEW AND COMMENT
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Bcc: Nicholas Arnott

Dear Sir / Madam

This correspondence provides notice in terms of the Environmental Impact Assessment Regulations 2014 (as amended) promulgated in terms of the National Environmental Management Act, 1998 (No. 107 of 1998) (NEMA) of an Application for environmental Authorisation for the above-mentioned project. Refer to the attached letter and Executive Summary provide more information.


Due to COVID-19 related concerns, only an electronic copy of the report has been made available. A copy of the full DSR is available for download from the SLR website (at <http://slrconsulting.com/za/slr-documents/tepsa11b12b>) or using the link to the SLR the file-transfer service included below:

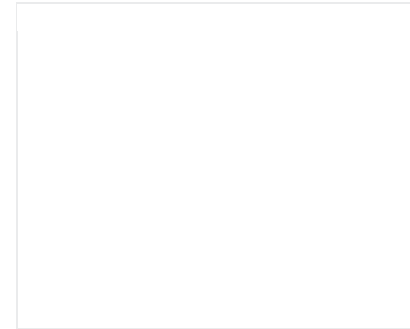
You have been sent a new file transfer message

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Thank you for using SLR Consulting File Transfer









Should you have any queries in this regard please do not hesitate to contact the undersigned (**Note:** Please use '11B12B' in the subject line in any submissions in this matter).

Yours sincerely,
Candice Sadan

Candice Sadan
Office Administrator

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 +27 21 461 1118
 +27 72 020 4291
 csadan@slrconsulting.com

SLR Consulting
SLR Consulting (Cape Town office)
5th Floor, Letterstedt House, Newlands on Main
Cnr Main and Campground Roads
Newlands
Cape Town, 7700

19 June 2020

PETROLEUM AGENCY SA

PO Box 5111
TYGERVALLEY
7536

ATTENTION: MS P. NGESI

Dear Madam

TOTAL E&P SOUTH AFRICA B.V. – ESIA FOR ADDITIONAL EXPLORATION DRILLING AND ASSOCIATED ACTIVITIES IN BLOCK 11B/12B OFF THE SOUTH COAST OF SOUTH AFRICA: NOTIFICATION OF AVAILABILITY OF DRAFT SCOPING REPORT FOR REVIEW AND COMMENT

Total E&P South Africa B.V. (“TEPSA”) and its partners hold an exploration right over Block 11B/12B located between 45 km to 130 km off the South Coast of South Africa. Existing Environmental Authorisation (EA) enables TEPSA to undertake various exploration activities across the block including drilling in a defined area in the western portion of the block. To better confirm the hydrocarbon resources in the area, TEPSA wishes to undertake additional exploration drilling in the eastern portion of the block and associated activities in Block 11B/12B.

This correspondence provides notice in terms of the Environmental Impact Assessment Regulations 2014 (as amended) promulgated in terms of the National Environmental Management Act, 1998 (No. 107 of 1998) (NEMA) of an Application for EA by TEPSA to undertake the proposed additional exploration activities.

SLR Consulting (South Africa) (Pty) Ltd (“SLR”) has been appointed by TEPSA to undertake the Environmental and Social Impact Assessment (ESIA) process for the proposed project. As part of this ESIA process, notice is hereby given, that the Draft Scoping Report (DSR) compiled for the above-mentioned project is available for a 30-day review and comment period from **19 June to 20 July 2020**. A copy of the Executive Summary of the DSR is attached for your reference. A copy of the full DSR is available on the SLR website (at <http://slrconsulting.com/za/slr-documents/tepsa11b12b>).

In accordance with the EIA Regulations, 2014 (as amended), you and / or your organisation are hereby invited to register as an Interested and Affected Party (I&AP) for the proposed project and / or comment on the Scoping Report for the proposed project. Due to COVID-19 related restrictions on public gatherings, no public meetings will be held at this stage of the ESIA process. However, should you wish to be invited to the planned online meeting,

where additional information regarding the proposed project would be presented, please register by **25 June 2020** by sending an email to the address below.

For issues and/or comments to be included in the Final Scoping Report they should be forwarded to SLR (using the details provided below) by **no later than 20 July 2020**.

Note: Please use ‘11B12B’ in the subject line in any submissions in this matter.

Ms Candice Sadan
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Should you have any queries in this regard please do not hesitate to contact the undersigned.

Yours sincerely,



Candice Sadan



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Candice Sadan

From: Candice Sadan
Sent: Friday, 19 June 2020 13:44
To: akerr@saoga.org.za
Cc: astrydom@saoga.org.za; mxiphu@saoga.org.za
Subject: TOTAL E&P SOUTH AFRICA B.V. – ESIA FOR ADDITIONAL EXPLORATION DRILLING AND ASSOCIATED ACTIVITIES IN BLOCK 11B/12B OFF THE SOUTH COAST OF SOUTH AFRICA: NOTIFICATION OF AVAILABILITY OF DRAFT SCOPING REPORT FOR REVIEW AND COMMENT
Attachments: TEPSA_11B12B_DSR_Exec_Summary.pdf; TEPSA_Block11B12B_Text in Afrikaans.pdf; TEPSA_Block11B12B_Text in IsiXhosa.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Dear Mr Kerr

As per a previous telephonic discussion with our Eloise Costandius, we ask that should you wish to forward this notification to your members database, could you please add the following disclaimer:
Please note that this notification relates to a formal legislated comment period as part of an Environmental and Social Impact Assessment process for a proposed project and does not serve as an opportunity to register as a service provider for any future exploration activities.

Total E&P South Africa B.V. (“TEPSA”) and its partners hold an exploration right over Block 11B/12B located between 45 km to 130 km off the South Coast of South Africa. Existing Environmental Authorisation (EA) enables TEPSA to undertake various exploration activities across the block including drilling in a defined area in the western portion of the block. To better confirm the hydrocarbon resources in the area, TEPSA wishes to undertake additional exploration drilling in the eastern portion of the block and associated activities in Block 11B/12B.

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To register as an interested and/or affected party (I&AP), please submit your full name and contact details to the SLR address provided below. Due to COVID-19 related restrictions on public gatherings, no public meetings will be held at this stage of the ESIA process. However, should you wish to be invited to the planned online meeting, where additional information regarding the proposed project would be presented, please register by **25 June 2020** by sending an email to the address below.

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Note: Please use ‘11B12B’ in the subject line in any submissions in this matter.





Ms Candice Sadan
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Should you have any queries in this regard please do not hesitate to contact the undersigned.

Please note that the text of this correspondence has also been translated into Afrikaans and IsiXhosa. These translations are also attached to this email for your convenience.

Yours sincerely
Candice Sadan

Candice Sadan
Office Administrator

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Newlands
Cape Town, 7700

Isihloko:

I-TOTAL E&P SOUTH AFRICA B.V. – ESIA YOHOLOLO OLONGEZEKILEYO NGOKUBHOLA NEZINYE IINTSHUKUMO EZIYELELE KOKU KWIBHLOKO 11B/12B CEBU KUHLE NONXWEME OLUKUMAZANTSI OMZANTSI AFRIKA: ISAZISO SOKUFUMANEKA KWENGXELO YOYILO YOMISELO-MDA UKUZE IHLOLWE YAYE KUNIKWE IZIMVO

Umxholo:

Mnu / Nkkz Othandekayo

I-Total E&P South Africa B.V. (“TEPSA”) kunye nesebenza nabo, banelungelo lokuhlola kwiBhloko 11B/12B ephakathi kwama 45 km ukuya kwi 130 km cebu kuhle noNxweme olukuMazantsi oMzantsi Afrika. Isigunyaziso Esikhoyo Sobume Bokusingqongileyo (i-EA) siyayivumela i-TEPSA ukuba yenze iintlobo ngeentlobo zokuhlola kwibhloko yonke, kuqukwa ukubhola kummandla obekiweyo okwisahlulo sasentshona sale bhloko. Ukuqinisekisa ngcono ubutyebi be hydrocarbon kulo mmandla, i-TEPSA inqwenela ukwenza okunye ukuhlola ngokubhola kwisahlulo esisempuma yale bhloko kunye neentshukumo ezayamene noku kwiBhloko 11B/12B.

Le mbalelwano ibonelela ngesaziso ngokwemiQathango yoVavanyo lokuChaphazeleka koBume bokusingqongileyo yango 2014 (nezilungiso) ebhengeziswe ngokoMthetho woLawulo loBume Obusingqongileyo kaZwelonke, 1998 (uMthetho onguNombolo. 107 ka-1998) (NEMA) weSicelo se EA yi TEPSA ukwenza ezi ntshukumo zongezekileyo zokuhlola ziphakanyiswayo.

I-SLR Consulting (South Africa) (Pty) Ltd (“SLR”) yonyulwe yi TEPSA ukuba yenze inkqubo yoVavanyo lokuChaphazeleka koBume bokusingqongileyo neNtlalo (ESIA), yale projekthi iphakanyiswayo. Njengexalenye yale nkqubo ye ESIA, ngokwenjenje kunikezwa isaziso, sokuba iNgxelo yoYilo yoMiselo-mda (DSR) equlunqelwe le projekthi ikhankanywe ngasentla, iyafumaneka ukuba ihlolwe iintsuku ezingama-30 nokuba kunikwe izimvo kwesi sithuba sisuka kumhla we **19 ku Juni ukuya kweyama 20 ku Julayi 2020**. Ikopi yesiShwankathelo Esiphambili se DSR incanyathelisiwe ukuze ukwazi ukuyijonga. Ikopi ye DSR epheleleyo iya fumaneka kwi webhusayithi ye SLR (at <http://slrconsulting.com/za/slr-documents/tepsa11b12b>).

Ukubhalisa njengomntu onomdla no/okanye ochaphazelekayo (I&AP), nceda ungenise igama lakho elipheleleyo neenkukacha zoqhagamshelwano naye kwidilesi yase SLR ebonelelwe ngezantsi. Ngenxa yonyino oluze ne COVID-19 kwiindibano zabantu, akukho zintlanganiso zikawonke-wonke ezakuthi zibanjwe ngeli xesha lenkqubo ye ESIA. Kodwa ke, ukuba unqwenela ukumenywa kwintlanganiso ecetyiweyo kwi-intanethi, apho kuya kunikwa intetho ngolunye ulwazi olongezekileyo malunga nale projekthi iphakanyiswayo, nceda ubhalise phambi komhla wama **25 ku Juni 2020** ngokuthumela i email kule dilesi ingezantsi.

Kufanele kuthunyelwe e SLR (kusetyenziswa iinkukacha ezibonelelwe ngezantsi) imiba kunye/okanye izimvo ezifanele ukuqukwa kwiNgxelo yokuGqibela Yomiselo-Mda, ungalulanga umhla wama **20 ku Julayi 2020**.

Qaphela: Nceda usebenzise u ‘11B12B’ kumgca wesihloko xa ungenisa nantoni na ephathelele kulo mcimbi.

Ms Candice Sadan
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E-mail: csadan@slrconsulting.com

Ukuba ungaba nayo nayiphi imibuzo malunga noku, nceda ungalibazisi ukuqhagamshelana nalo usayine ngezantsi.

Ozithobileyo,
Candice Sadan

Subject:

TOTAL E&P SOUTH AFRICA B.V. – OSIS VIR ADDISIONELE EKSPLORASIEBOORWERK EN VERWANTE AKTIWITEITE IN BLOK 11B/12B LANGS DIE SUIDKUS VAN SUID-AFRIKA: BESKIKBAARHEID VAN KONSEP OMVANGSVERSLAG VIR OORSIG EN KOMMENTAAR

Body text:

Geagte Heer / Dame

Total E&P South Africa B.V. (“TEPSA”) en vennote hou ‘n eksplorasie oor Blok 11B/12B wat tussen 45 km en 130 km afluig van die Suidkus van Suid-Afrika geleë is. Bestaande Omgewingsmagtiging laat TEPSA toe om verskeie eksplorasie aktiwiteite te onderneem oor die blok, insluitende boorwerk in ‘n gedefinieerde area in die westelike gedeelte van die blok. TEPSA beoog nou om addisionele eksplorasie boorwerk in die oostelike gedeelte van die blok en verwante aktiwiteite in Blok 11B/12B te onderneem.

Hierdie korrespondensie dien as kennisgewing in terme van die Omgewingsimpakstudie Regulasies 2014 (soos gewysig) kragtens die Nasionale Wet op Omgewingsbestuur, 1998 (No. 107 van 1998) (NEMA) van ‘n Aansoek om Omgewingsmagtiging deur TEPSA vir die onderneem van die voorgestelde addisionele eksplorasie aktiwiteite.

SLR Consulting (South Africa) (Pty) Ltd (“SLR”) is deur TEPSA aangestel om die Omgewings- en Sosiale Impakstudie (OSIS) proses vir die voorgestelde projek te onderneem. As deel van die OSIS proses stel ons u hiermee in kennis dat die Konsep Omvangverslag (KOV) vir die bostaande projek saamgestel is en beskikbaar is vir ‘n 30-dae oorsig- en kommentaarperiode vanaf **19 Junie tot 20 Julie 2020**. ‘n Kopie van die Bestuursoorsig van die KOV is as verwysing hierby aangeheg. Die volle KOV is op die SLR webblad beskikbaar (at <http://slrconsulting.com/za/slr-documents/tepsa11b12b>).

Om te registreer as ‘n belanghebbende/geaffekteerde party vra ons dat u u volle naam en kontakbesonderhede aan die onderstaande SLR kontakpersoon sal stuur. As gevolg van die COVID-19 beperkinge op publieke samekomste sal geen publieke vergaderings op hierdie stadium van die OSIS proses gehou word nie. Indien u egter uitgenooi wil word na ‘n beplande aanlyn vergadering, waartydens bykomende projekinligting gedeel sal word, vra ons dat u teen **25 Junie 2020** sal registreer deur ‘n e-pos aan die onderstaande adres te stuur.

Vir kwessies en/of kommentaar om ingesluit te word in die Finale Omvangverslag moet dit aan SLR (by onderstaande kontakbesonderhede) gestuur word **teen 20 Julie 2020**.

Neem kennis: Gebruik ‘11B12B’ as verwysing in die onderwerp vir alle korrespondensie in hierdie verband.

Ms Candice Sadan
SLR Consulting (South Africa) (Pty) Ltd
Posbus 10145, Caledonplein, 7905
5de Vloer, Newlands on Main Gebou, Nuweland, 7700
Tel: (021) 461 1118
E-pos: csadan@slrconsulting.com

Indien u enige vrae het, skakel gerus met die afsender.

Vriendelike groete,
Candice Sadan

Candice Sadan

From: Candice Sadan
Sent: Friday, 31 July 2020 12:02
To: Candice Sadan
Cc: Nicholas Arnott; Matthew Hemming
Subject: TOTAL E&P SOUTH AFRICA B.V. – ESIA FOR ADDITIONAL EXPLORATION DRILLING AND ASSOCIATED ACTIVITIES IN BLOCK 11B/12B OFF THE SOUTH COAST OF SOUTH AFRICA: NOTIFICATION OF ESIA PROCESS AND SCOPING REPORT COMMENT PERIOD
Attachments: TEPSA_ESIA_11B12B_DSR_Small boat harbour Letter_200731.pdf; TEPSA_ESIA_11B-12B_Drilling_NonTechSummary_200731.pdf

Dear Small-boat Harbour or Slipway Representative/User

TOTAL E&P SOUTH AFRICA B.V. – ESIA FOR ADDITIONAL EXPLORATION DRILLING AND ASSOCIATED ACTIVITIES IN BLOCK 11B/12B OFF THE SOUTH COAST OF SOUTH AFRICA: NOTIFICATION OF ESIA PROCESS AND SCOPING REPORT COMMENT PERIOD

Total E&P South Africa B.V. (“TEPSA”) and its partners hold an exploration right over Block 11B/12B. TEPSA has authorisation to undertake various exploration activities in the area, which resulted in the Brulpadda gas discovery that was made public in 2019. Exploration activities, including well drilling, are currently ongoing.

TEPSA is now proposing to undertake additional exploration activities over a broader area in order to better confirm the hydrocarbon resource discoveries in the block. The proposed activities include, amongst others, additional exploration well drilling. The block is located between 45 km to 130 km offshore of the South Coast.

TEPSA has applied to the Petroleum Agency of South Africa for Environmental Authorisation (EA) of these additional activities. The application has been made in terms of the Environmental Impact Assessment Regulations 2014 (as amended) promulgated in terms of the National Environmental Management Act, 1998 (No. 107 of 1998). SLR Consulting (South Africa) (Pty) Ltd (“SLR”) has been appointed by TEPSA to undertake an Environmental and Social Impact Assessment (ESIA) for the proposed activities. The ESIA process aims to identify and assess the potential impacts and provide adequate information to the Petroleum Agency of South Africa for them to make an informed decision.

The ESIA is currently in the Scoping phase where, through a participative process, potential issues are identified for further consideration in the impact assessment. SLR has compiled a Draft Scoping Report (DSR) which is currently available to interested and affected parties (I&AP) for review and comment until **21 August 2020**. The review enables any I&AP to confirm that the key environmental and social issues and risks of the proposed activities are identified for assessment.

A copy of the Non-Technical Summary of the DSR is attached for your reference. The full DSR is available on the SLR website (<https://slrconsulting.com/public-documents>) and at <https://slr11b12b.datafree.co>, which is accessible from an internet-capable mobile phone without data charges. The Non-Technical Summary (also available in Afrikaans or isiXhosa) is available on the websites and can be sent to stakeholders directly, via email or WhatsApp, on request.

SLR kindly requests your assistance to circulate this information to relevant representatives/users of the small boat harbours between Agulhas and Port Elizabeth. Should any organisations or individuals wish to register as an I&AP or require additional information, please advise them to contact SLR using the details provided below. I&APs are welcome to send an SMS or WhatsApp to SLR.

For issues and/or comments to be included in the Final Scoping Report they should be forwarded to SLR by **no later than 21 August 2020**. Any submission received by SLR after this date will be collated and responded to in the next phase of the ESIA process.

SLR Consulting (South Africa) (Pty) Ltd
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Project Reference: 720.20047.00005

File Ref. TEPSA_ESIA_11B12B_DSR_Small boat harbour Letter_200731

31 July 2020

Should you have any queries in this regard please do not hesitate to contact the undersigned.

Yours sincerely

Matthew Hemming Pr.Sci.Nat., EAPASA
SLR Consulting (South Africa) (Pty) Ltd

Candice Sadan
Office Administrator

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Dear Small-boat Harbour or Slipway Representative/User

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SLR Consulting (South Africa) Proprietary Limited

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Reg. No: 2007/005517/07

Vat No: 4630242198

Directors: R Hounsoume, F Fredericks, D Junak

Johannesburg Office: Physical Address: Suite 1 - Building D, Monte Circle,
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Should you have any queries in this regard please do not hesitate to contact the undersigned.

Yours sincerely

Matthew Hemming Pr.Sci.Nat., EAPASA
SLR Consulting (South Africa) (Pty) Ltd

NON-TECHNICAL SUMMARY

Draft Scoping Report - ESIA for Additional Exploration Activities in Block 11B/12B by TOTAL E&P SOUTH AFRICA B.V

1. INTRODUCTION

This Non-Technical Summary provides a synopsis of the Draft Scoping Report (DSR) prepared as part of the Environmental and Social Impact Assessment (ESIA) process for TOTAL E & P South Africa B.V. (TEPSA). The Summary is available in English, Afrikaans and isiXhosa and is being distributed to stakeholders as a basis for notification and comment.

TEPSA is applying for an Environmental Authorisation to undertake future additional exploration activities off the Cape South Coast in License Block 11B/12B (see Figure 1). The northern boundary of Block 11B/12B is located between approximately 45 km and 130 km offshore of Cape St. Francis and Mossel Bay, respectively.

TEPSA holds an existing Exploration Right for Block 11B/12B which allows for the undertaking of a number of exploration activities, including seismic surveys, sonar bathymetry surveys, sediment sampling and exploration well drilling. Since the first granting of the Exploration Right, various exploration activities have been undertaken in the block, which resulted in the Brulpadda gas discovery in 2019. Activities are currently ongoing in the block.

TEPSA is now proposing to undertake further exploration drilling and associated activities over a broader area in order to better confirm the hydrocarbon resource discovery. The proposed additional activities include:

- Drilling of up to ten additional exploration wells.
- Controlled Source Electro-Magnetic Surveys (CSEM).
- Mooring deployment for metocean data acquisition.

This exploration would trigger several listed activities in terms of the EIA Regulations of 2014 (as amended), and as such, an Environmental Authorisation (EA) is required before they could commence. SLR Consulting (South Africa) (Pty) Ltd (SLR) has been appointed as the independent Environmental Assessment Practitioner to undertake a Scoping and ESIA process for the proposed exploration activities.

2. WHY DOES TEPSA WANT TO CONTINUE EXPLORATION ACTIVITIES?

In July 2014, the South African Government launched Operation Phakisa with the aim of, inter alia, unlocking the economic potential of South Africa's oceans. In this

regard four priority sectors have been selected as new growth areas in the ocean economy, one being offshore oil and gas exploration. The goal for this is to further enhance the enabling context for exploration of oil and gas, resulting in an increased number of exploration wells drilled, while simultaneously maximising the value captured for South Africa. In this regard, a key target identified by Operation Phakisa is the drilling of 30 exploration wells in ten years. TEPSA provides an opportunity to further establish the extent and economic viability of the indigenous gas and/or oil reserves for South Africa in Block 11B/12B

3. IS THERE OPPORTUNITY TO INTERACT?

The ESIA is currently in the Scoping phase where, through a consultative process, potential issues are identified for further consideration. SLR has compiled a Draft Scoping Report (DSR), which is currently available for review and comment. The DSR: outlines the ESIA steps undertaken to date, including public participation; provides detail on the proposed activities and a description of the potentially affected environment; and identifies the issues of concern that need to be further investigated in order to undertake the impact assessment.

You can be involved by:

- Reading this Non-Technical Summary (the full Scoping Report is available at www.slrconsulting.com/public-documents OR at <https://slr11b12b.datafree.co> - accessible from internet-capable mobile phones without data charges).
- Listening to the recording of the webinars held in July 2020. These includes comments raised by Interested and Affected Parties (I&AP) and preliminary responses from TEPSA and SLR (on the websites).
- Sending comments, questions or concerns to SLR at the contact details below by post, email, SMS, WhatsApp or a call.

Please send your comments to:

SLR Consulting (South Africa) (Pty) Ltd
PO Box 10145, Caledon Square, 7905
Tel: (021) 461 1118; Mobile: 072 997 3082;
E-mail: csadan@slrconsulting.com

Comments must reach SLR by 21 August 2020

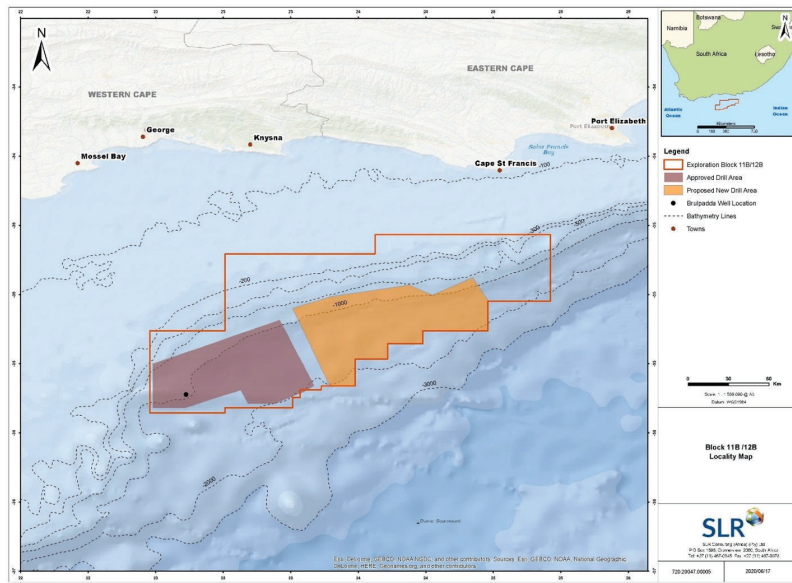


Figure 1: Location of Licence Block 11B/12B off the South Coast of South Africa
SLR Consulting (Africa) (Pty) Ltd

4. WHAT DOES TEPSA INTEND TO DO?

TEPSA is applying for Environmental Authorisation to undertake the activities outlined below.

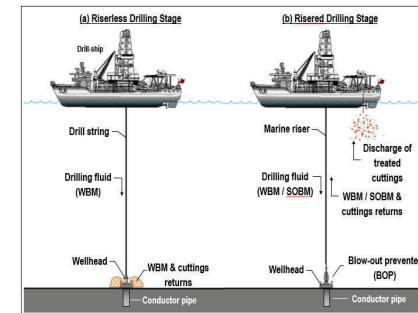
4.1 Exploration Well Drilling

Exploration would include the drilling of up to ten wells using a semi-submersible drilling unit (rig) with dynamic positioning system suitable for the deepwater harsh marine environment (no anchoring required). During operations, a 500 m safety zone would be enforced around the drilling unit.

The rig would be supported by a tugboat, two support vessels and helicopter transfers between the location and George airport. The primary onshore logistics base would most likely be located at Mossel Bay Port (could also be Cape Town or Port Elizabeth).

The well hole into the seafloor is created by a drill bit attached to a rotating string, which crushes the rock into small particles, called “cuttings”. Drilling is undertaken in two stages, namely the riserless (muds & cuttings are discharged onto the seafloor) and riser drilling (treated cuttings, with residual mud, is discharged into the water column) stages (see Figure 2). After the hole is drilled, casings of steel pipe are placed in the hole to provide structural integrity and permanently cemented into place.

It is expected to take three to six months per well to complete the physical drilling and testing, including the mobilisation and demobilisation of vessels.



Adapted from: <https://en.wikipedia.org/wiki/Drillship>

Figure 2: Drilling stages

4.2 Controlled Source Electro-magnetic (CSEM) Surveys

A CSEM survey is used to identify geological features below the seabed in order to profile the presence of hydrocarbon resources. CSEM surveys involve the generation of an electrical field using a towed source. An array of receivers is placed in a grid pattern on the seafloor to record changes in the emitted field caused by subsurface resistivity layers (see Figure 3). CSEM does not generate any underwater noise, but rather emits an electromagnetic field. The output source carries very little energy, which dissipates quickly in seawater. The CSEM survey is expected to take up to three months to complete. A safety zone of up to 2 km is required around the operations.

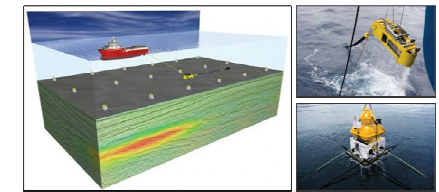


Figure 3: Schematic of typical CSEM survey configuration showing towed source and seafloor receivers (left); source (top right) and receiver (bottom right)

4.3 Metocean Buoy Mooring

Up to five metocean buoys would be deployed within Block 11B/12B for a one-year period in order to record currents, waves, water temperature, ambient water noise levels, wind and air parameters. The wave buoy would require a temporary safety zone of between 500 m and 2 km radius on the sea surface (depending on the water depth). All vessels would be excluded from entering this safety zone.

4.4 Emergency Response (oil spill)

In the unlikely event of an oil spill, TEPSA has contracts with global response organisations for advanced capping stacks to be used over the wellhead (e.g. if the blowout preventer has failed). One organisation has resources located in Saldanha and another in the UK and Singapore. Details on the mobilisation of response equipment and services would be contained in TEPSA's Oil Spill Contingency Plan and Blow-Out Contingency Plan developed for each well.

5. WHAT ARE THE KEY ENVIRONMENTAL AND SOCIAL SENSITIVITIES?

The potentially affected environment can be divided into three categories: (1) Physical, (2) Biological and (3) Socio-economic.

5.1 Physical Environment

The physical environment includes aspects such as wind and temperature, sea currents, bathymetry, waves and sediments on the sea floor. The South Coast is known for extreme weather events that typically occur during the winter months between May and September. The offshore region is almost totally dominated by the warm Agulhas Current. A large expanse of the Agulhas Bank mid-shelf seafloor comprises both rock and areas with sparse sediment cover. The seafloor of the proposed new drill area is characterised by unconsolidated sediments.

5.2 Biological Environment

The South Coast supports a rich diversity of marine life including sensitive benthic habitats/species, plankton, fish and shark, turtles, seabirds and marine mammals (including whales, dolphins and seals). Some benthic habitats within Block 11B/12B are considered vulnerable, while fish abundance along the South Coast is linked to plankton, which form important components of the food chain. The fish most likely to be encountered on the shelf, beyond the shelf break and in the offshore waters of Block 11B/12B are the large migratory pelagic species, including various tunas, billfish and sharks. Many of the sharks are considered threatened by the International Union for Conservation of Nature (IUCN).

Three species of turtle occur along the South Coast, namely the leatherback (Critically Endangered), the loggerhead and occasionally the green turtle (both Endangered), while 60 species of seabirds are known, or thought likely, to occur, of which 15 species breed within this region, many on the coastal islands.

The cetaceans known or likely to occur on the South Coast comprise 35 species of whales and dolphins. Of these, some are classified as Critically Endangered, Endangered, and Vulnerable on the South African Red Data list. Species most likely to be encountered within Block 11B/12B are the common bottlenose dolphin, long-finned pilot whale, Bryde's whale, southern right whale and humpback whale. The baleen whales include the blue, fin, sei, minke, dwarf minke, Bryde's, and pygmy right. Of the toothed whales, long-finned pilot whales and short-beaked common dolphin are likely to be the most frequently encountered odontocetes, while killer whales have also been confirmed. Sperm whales may also be encountered in

water over 1 000 m depth. The Cape fur seal is the only seal species likely to be encountered in Block 11B/12B. The closest breeding colonies along the South Coast are at Seal Island in Mossel Bay, on the northern shore of the Robberg Peninsula in Plettenberg Bay and at Black Rocks (Bird Island group) in Algoa Bay.

There are eight Coastal Marine Protected Areas (MPAs) and seven Offshore Marine Protected Areas along the South Coast (see Figure 4). Ecologically or Biologically Significant Areas (EBSAs) are also found in proximity to the block. The northern portion of Block 11B/12B overlaps with the Kingklip EBSA which was identified to offer protection to Secret Reef, Kingklip Koppies and Kingklip Ridge, including newly discovered biogenic coral reef structures with fragile and sensitive corals, bryozoans, mollusc and crab species. The proposed new drilling area avoids the Kingklip EBSA.

5.3 Socio-economic Environment

The South Coast is a popular tourism destination and comprises a number of coastal settlements between Cape Agulhas and Port Elizabeth, which are linked by the N2 highway that passes through or around the larger towns of Mossel Bay, George, and Knysna and Jeffrey's Bay. The top tourism and recreational activities are focussed primarily on the scenic coastline with its rocky headlands and sandy beaches. Tourism plays an important role in the economy of many of the towns along this coastal area.

Several commercial fishing sectors operate in the shallow and deep waters along the South Coast. Much of the fishing occurs in the shallow waters on the continental shelf of the Agulhas Bank to depths of 1 000 m. Fishing activities that are expected to occur in this northern zone of Block 11B/12B include the demersal trawl, midwater trawl and demersal longline fisheries, but these are less likely to occur in the deeper water portion where drilling is proposed.

Fishing activities that are most likely to overlap with the deeper water portions are large pelagic long lining for tuna, swordfish and shark (mainly mako shark), which occur over an extensive area in the South African EEZ and along the continental shelf break and further offshore. Most long-lining vessels operate out of Cape Town and fishing occurs year-round with peak activity in winter (June) and spring.

Other fisheries, such as chokka squid, south coast rock lobster, traditional line fishing, small pelagic purse seine and some mariculture farms, occur in the nearshore area and are not expected to be affected by the planned exploration activities.

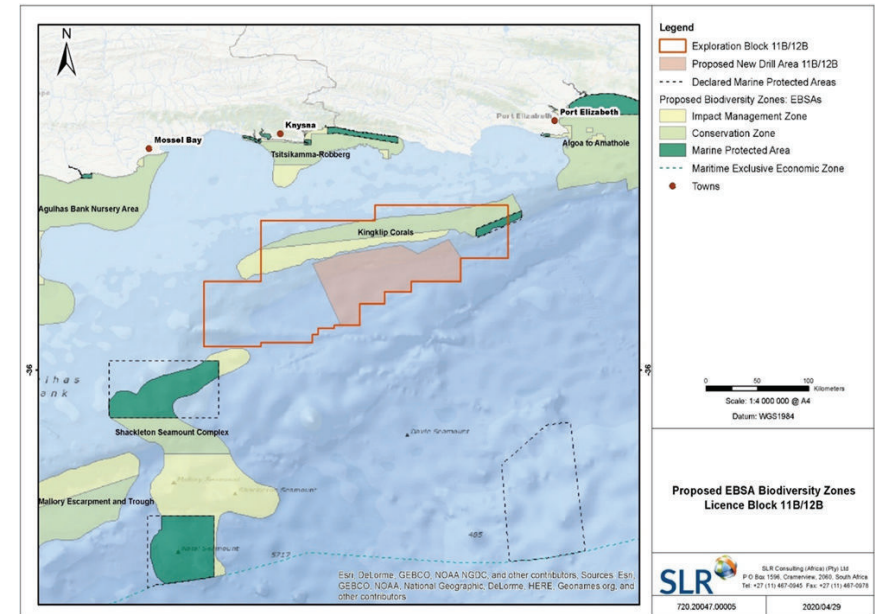


Figure 4: Marine Protected Areas and proposed Ecologically or Biologically Significant Areas in relation to Block 11B/12B (red outline) and proposed new drill area (orange)

6. HOW WILL THE ESIA ADDRESS THE IMPACTS ON THE ENVIRONMENT?

Given the proposed activities and the sensitivities of the affected environment, several impacts of potential significance have been identified and are summarised in the Table. These impacts are indicative based on previous exploration drilling activities and will be formally assessed by the specialists during the ESIA, supported by the use of new modelling information.

| Project Activity | Predicted Impacts |
|--|--|
| Investment in O&G sector | <ul style="list-style-type: none"> Contribution to national economy. |
| Procurement of local service providers and employment | <ul style="list-style-type: none"> Short-term procurement of local service providers for onshore base and helicopter transfers etc. Limited short-term employment of a few skilled and semi-skilled staff (e.g. logistics base). |
| Procurement of local goods and services (e.g. accommodation and food) | <ul style="list-style-type: none"> Increased (but limited) local spend in south coast towns. |
| Discharge of ballast water | <ul style="list-style-type: none"> Discharge of ballast water, particularly when vessels are in transit to and from the drilling area, may spread alien invasive species. |
| Safety protection zones around drilling unit and support vessels | <ul style="list-style-type: none"> Exclusion of fishing activities within 500 m to 2 km safety zones during operational activities. |
| Discharge of effluent to sea (e.g. grey water, sewage, deck drainage) from drilling unit and vessels | <ul style="list-style-type: none"> Contamination of sea water and physiological effects on marine fauna. Increased attraction of plankton, fish and other fauna to the drilling area. |
| Increased ambient noise from helicopters | <ul style="list-style-type: none"> Disturbance of seals and sea birds along coast. Disturbance / loss of sense of place of residents and tourists. |
| Discharge of drill cuttings from drilling unit and sediment disturbance on sea floor during drilling operations | <ul style="list-style-type: none"> Increased sea water turbidity and water quality contamination from sediment plume and physiological effects and disturbance of fish and other marine fauna. Smothering of benthic fauna on seafloor from deposition of cuttings and excess cement. |
| Generation of underwater noise from drilling and vessel activity and Vertical Seismic Profiling | <ul style="list-style-type: none"> Disturbance of marine fauna and fish from exploration area. Displacement of fish and fishing. |
| Leaving subsea well infrastructure on seafloor | <ul style="list-style-type: none"> Interference with demersal trawling activities or fishing equipment. |
| Potential unplanned events such as well blow out, dropped objects or fuel loss during bunkering | <ul style="list-style-type: none"> Pollution of marine life including possible mortality of fauna. Large dropped objects may interfere with fishing activities or damage fishing equipment Oiling of sensitive coastal habitats in unlikely event of a major spill. Disruptions to coastal user groups in unlikely event of a major spill. |

To address the above-mentioned potential impacts the following specialist studies will be undertaken:

- Oil spill, drill cutting and underwater noise dispersion modelling.
- Marine and coastal ecology assessment.
- Commercial fisheries assessment.
- Social assessment.

7. WHAT WILL HAPPEN NEXT?

- All comments received by **21 August 2020** will be addressed as part of a Comments and Response Report.
- The Scoping Report will be updated based on the comments and submitted together with the Comments and Response Report to the Petroleum Agency of South Africa (PASA).
- PASA will then have 43 days to either accept or reject the Scoping Report.
- SLR will undertake the assessment of impacts and prepare the ESIA Report.
- The ESIA report would be made available to registered I&APs for review and comment.

Candice Sadan

From: Candice Sadan
Sent: Friday, 31 July 2020 12:02
To: Candice Sadan
Cc: Nicholas Arnott; Matthew Hemming
Subject: TOTAL E&P SOUTH AFRICA B.V. – ESIA FOR ADDITIONAL EXPLORATION DRILLING AND ASSOCIATED ACTIVITIES IN BLOCK 11B/12B OFF THE SOUTH COAST OF SOUTH AFRICA: NOTIFICATION OF ESIA PROCESS AND SCOPING REPORT COMMENT PERIOD
Attachments: TEPSA_ESIA_11B12B_DSR_Small boat harbour Letter_200731.pdf; TEPSA_ESIA_11B-12B_Drilling_NonTechSummary_200731.pdf

Dear Small-boat Harbour or Slipway Representative/User

TOTAL E&P SOUTH AFRICA B.V. – ESIA FOR ADDITIONAL EXPLORATION DRILLING AND ASSOCIATED ACTIVITIES IN BLOCK 11B/12B OFF THE SOUTH COAST OF SOUTH AFRICA: NOTIFICATION OF ESIA PROCESS AND SCOPING REPORT COMMENT PERIOD

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TEPSA is now proposing to undertake additional exploration activities over a broader area in order to better confirm the hydrocarbon resource discoveries in the block. The proposed activities include, amongst others, additional exploration well drilling. The block is located between 45 km to 130 km offshore of the South Coast.

TEPSA has applied to the Petroleum Agency of South Africa for Environmental Authorisation (EA) of these additional activities. The application has been made in terms of the Environmental Impact Assessment Regulations 2014 (as amended) promulgated in terms of the National Environmental Management Act, 1998 (No. 107 of 1998). SLR Consulting (South Africa) (Pty) Ltd (“SLR”) has been appointed by TEPSA to undertake an Environmental and Social Impact Assessment (ESIA) for the proposed activities. The ESIA process aims to identify and assess the potential impacts and provide adequate information to the Petroleum Agency of South Africa for them to make an informed decision.

The ESIA is currently in the Scoping phase where, through a participative process, potential issues are identified for further consideration in the impact assessment. SLR has compiled a Draft Scoping Report (DSR) which is currently available to interested and affected parties (I&AP) for review and comment until **21 August 2020**. The review enables any I&AP to confirm that the key environmental and social issues and risks of the proposed activities are identified for assessment.

A copy of the Non-Technical Summary of the DSR is attached for your reference. The full DSR is available on the SLR website (<https://slrconsulting.com/public-documents>) and at <https://slr11b12b.datafree.co>, which is accessible from an internet-capable mobile phone without data charges. The Non-Technical Summary (also available in Afrikaans or isiXhosa) is available on the websites and can be sent to stakeholders directly, via email or WhatsApp, on request.

SLR kindly requests your assistance to circulate this information to relevant representatives/users of the small boat harbours between Agulhas and Port Elizabeth. Should any organisations or individuals wish to register as an I&AP or require additional information, please advise them to contact SLR using the details provided below. I&APs are welcome to send an SMS or WhatsApp to SLR.

For issues and/or comments to be included in the Final Scoping Report they should be forwarded to SLR by **no later than 21 August 2020**. Any submission received by SLR after this date will be collated and responded to in the next phase of the ESIA process.

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Project Reference: 720.20047.00005

File Ref. TEPSA_ESIA_11B12B_DSR_Small boat harbour Letter_200731

31 July 2020

Should you have any queries in this regard please do not hesitate to contact the undersigned.

Yours sincerely

Matthew Hemming Pr.Sci.Nat., EAPASA
SLR Consulting (South Africa) (Pty) Ltd

Candice Sadan
Office Administrator

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Cape Town, 7700

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Candice Sadan

From: Candice Sadan
Sent: Friday, 31 July 2020 11:48
To: Candice Sadan
Cc: Nicholas Arnott; Matthew Hemming; Jeremy Blood
Subject: TOTAL E&P SOUTH AFRICA B.V. – ESIA FOR ADDITIONAL EXPLORATION DRILLING AND ASSOCIATED ACTIVITIES IN BLOCK 11B/12B OFF THE SOUTH COAST OF SOUTH AFRICA: NOTIFICATION OF ESIA PROCESS AND SCOPING REPORT COMMENT PERIOD

Attachments: TEPSA_ESIA_11B-12B_Drilling_NonTechSummary_200731.pdf; TEPSA_ESIA_11B12B_DSR_Small scale fishery Letter_200731.pdf

Bcc: pedro garcia; csmith@wwf.org.za; blebepe@wwf.org.za; serge@abalobi.org; misaacs@plaas.org.za; BernaciaM@daff.gov.za

Dear Small Scale Fishery Sector Representative/Member

TOTAL E&P SOUTH AFRICA B.V. – ESIA FOR ADDITIONAL EXPLORATION DRILLING AND ASSOCIATED ACTIVITIES IN BLOCK 11B/12B OFF THE SOUTH COAST OF SOUTH AFRICA: NOTIFICATION OF ESIA PROCESS AND SCOPING REPORT COMMENT PERIOD

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File Ref. TEPESA_ESIA_11B12B_DSR_Small scale fishery Letter_200731

31 July 2020

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Yours sincerely

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From: Candice Sadan
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Subject: TOTAL E&P SOUTH AFRICA B.V. – ESIA FOR ADDITIONAL EXPLORATION DRILLING AND ASSOCIATED ACTIVITIES IN BLOCK 11B/12B OFF THE SOUTH COAST OF SOUTH AFRICA: NOTIFICATION OF ESIA PROCESS AND SCOPING REPORT COMMENT PERIOD
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Bcc: info@nmbt.co.za; info@jeffreysbaytourism.org; nkrugel50@gmail.com; info@stfrancistourism.co.za; office@stfrancistourism.co.za; info@plettenbergbay.co.za; manager@plettourism.com; info@visitknysna.co.za; gm@visitknysna.co.za; info@visitknysna.co.za; info@visitgeorge.co.za; jshaw@george.gov.za; ceo@georgechamber.co.za; info@knysna-info.co.za; gwim@123.co.za; communications@knysna.gov.za; ccarelse@george.gov.za; fijnboschcoffeeshop@gmail.com; chairota@gmail.com; wessageorge@isat.co.za; info@visituniondale.co.za; aneli@visitmosselbay.co.za; info@visitmosselbay.co.za; manager@visitmosselbay.co.za; stilbaaiinfo@easycoms.co.za; wact@telkomsa.net; suidpunt@brd.dorea.co.za; agulhas@discovercapeagulhas.co.za; suidpunt@brd.dorea.co.za; suidpunt@brd.dorea.co.za; info@tipofafricatourism.co.za; infomanager@hermanus.co.za; infoburo@hermanus.co.za; info@heartofabalone.co.za; info@gansbaaitourism.co.za; info@unravelsurtravel.com; info@ecpta.co.za; design@jaydeemedia.co.za

Dear Tourism Association Chair/Member

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Yours sincerely

Matthew Hemming Pr.Sci.Nat., EAPASA
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Candice Sadan
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Project Reference: 720.20047.00005

File Ref. TEPSA_ESIA_11B12B_DSR_Tourism Association Letter_200731

31 July 2020

Dear Tourism Association Chair/Member

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Candice Sadan

From: Candice Sadan
Sent: Friday, 31 July 2020 11:32
To: Candice Sadan
Cc: Matthew Hemming; Nicholas Arnott
Subject: TOTAL E&P SOUTH AFRICA B.V. – ESIA FOR ADDITIONAL EXPLORATION DRILLING AND ASSOCIATED ACTIVITIES IN BLOCK 11B/12B OFF THE SOUTH COAST OF SOUTH AFRICA: NOTIFICATION OF ESIA PROCESS AND SCOPING REPORT COMMENT PERIOD

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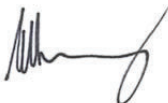
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Candice Sadan

From: Candice Sadan
Sent: Tuesday, 04 August 2020 12:26
To: gm@visitknysna.co.za
Cc: Rizqah Baker; Nicholas Arnott; Matthew Hemming
Subject: TOTAL E&P SOUTH AFRICA B.V. – ESIA FOR ADDITIONAL EXPLORATION DRILLING AND ASSOCIATED ACTIVITIES IN BLOCK 11B/12B OFF THE SOUTH COAST OF SOUTH AFRICA: NOTIFICATION OF ESIA PROCESS AND SCOPING REPORT COMMENT PERIOD
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Follow Up Flag: Follow up
Flag Status: Flagged

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TOTAL E&P SOUTH AFRICA B.V. – ESIA FOR ADDITIONAL EXPLORATION DRILLING AND ASSOCIATED ACTIVITIES IN BLOCK 11B/12B OFF THE SOUTH COAST OF SOUTH AFRICA: NOTIFICATION OF ESIA PROCESS AND SCOPING REPORT COMMENT PERIOD

Total E&P South Africa B.V. (“TEPSA”) and its partners hold an exploration right over Block 11B/12B. TEPSA has authorisation to undertake various exploration activities in the area, which resulted in the Brulpadda gas discovery that was made public in 2019. Exploration activities, including well drilling, are currently ongoing.

TEPSA is now proposing to undertake additional exploration activities over a broader area in order to better confirm the hydrocarbon resource discoveries in the block. The proposed activities include, amongst others, additional exploration well drilling. The block is located between 45 km to 130 km offshore of the South Coast.

TEPSA has applied to the Petroleum Agency of South Africa for Environmental Authorisation (EA) of these additional activities. The application has been made in terms of the Environmental Impact Assessment Regulations 2014 (as amended) promulgated in terms of the National Environmental Management Act, 1998 (No. 107 of 1998). SLR Consulting (South Africa) (Pty) Ltd (“SLR”) has been appointed by TEPSA to undertake an Environmental and Social Impact Assessment (ESIA) for the proposed activities. The ESIA process aims to identify and assess the potential impacts and provide adequate information to the Petroleum Agency of South Africa for them to make an informed decision.

The ESIA is currently in the Scoping phase where, through a participative process, potential issues are identified for further consideration in the impact assessment. SLR has compiled a Draft Scoping Report (DSR) which is currently available to interested and affected parties (I&AP) for review and comment until **21 August 2020**. The review enables any I&AP to confirm that the key environmental and social issues and risks of the proposed activities are identified for assessment.

A copy of the Non-Technical Summary of the DSR is attached for your reference. The full DSR is available on the SLR website (<https://slrconsulting.com/public-documents>) and at <https://slr11b12b.datafree.co>, which is accessible from an internet-capable mobile phone without data charges. The Non-Technical Summary (also available in Afrikaans or isiXhosa) is available on the website and can be sent to stakeholders directly, via email or WhatsApp, on request.

SLR kindly requests your assistance to circulate this information to relevant members of your Association. Should any organisations or individuals with interest in the area between Agulhas and Port Elizabeth wish to register as an I&AP or require additional information, please advise them to contact SLR using the details provided below. I&APs are welcome to send an SMS or WhatsApp to SLR.

For issues and/or comments to be included in the Final Scoping Report they should be forwarded to SLR by **no later than 21 August 2020**. Any submission received by SLR after this date will be collated and responded to in the next phase of the ESIA process.

SLR Consulting (South Africa) (Pty) Ltd
Post: PO Box 10145, Caledon Square, 7905

Should you have any queries in this regard please do not hesitate to contact the undersigned.

Yours sincerely



Matthew Hemming Pr.Sci.Nat., EAPASA
SLR Consulting (South Africa) (Pty) Ltd

Dear Interested and/or Affected Party

TOTAL E&P SOUTH AFRICA B.V. – ESIA FOR ADDITIONAL EXPLORATION DRILLING AND ASSOCIATED ACTIVITIES IN BLOCK 11B/12B OFF THE SOUTH COAST OF SOUTH AFRICA (PASA REF: 12/3/67/1/B): NOTIFICATION OF SUBMISSION OF FINAL SCOPING REPORT

Our previous correspondence of 19 June and 17 July 2020 regarding above-mentioned Environmental and Social Impact Assessment (ESIA) process refer. This letter serves to notify you that the final Scoping Report prepared for the above-mentioned application, together with the comments received during the public review and comment period, was submitted to the Petroleum Agency of South Africa (PASA) on 4 September 2020 for their consideration and review.

As you may be aware, SLR Consulting (South Africa) (Pty) Ltd (SLR) released the draft Scoping Report (DSR) for a 30-day review and comment period from 19 June to 20 July 2020. Subsequently, a number of Interested and Affected Parties submitted responses to SLR, highlighting concerns regarding the duration and methods of the public participation.

In light of these requests, a 30-day extension to the Scoping Report review and comment period was provided (from 19 June to 21 August 2020) and communicated to registered I&APs on 17 July 2020. Furthermore, SLR also undertook several additional public participation actions to facilitate that other potential I&APs were made aware of the application and were able to access the project information. The additional notification and consultation opportunities, included:

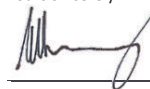
- Placement of site notices at 30 locations in 13 coastal towns between Agulhas and Port Elizabeth;
- Broadcasting of radio advertisements on four different radio stations (in English, Afrikaans and isiXhosa);
- Distribution of notification letters to representatives of Coastal Tourism Associations, Small-harbour user groups, marine research groups and small-scale fishery groups.
- Distribution of notification letters to Ward Councillors within wards with a coastal footprint in the area between Agulhas and Port Elizabeth;
- Distribution of non-technical summary (in English, Afrikaans and isiXhosa) to I&APs via email or, where requested, WhatsApp and/or hard copy;
- Provision of a cell number for I&APs to contact SLR via SMS or WhatsApp messaging; and
- Making the Draft Scoping Report available on a zero-data website.

As noted, the final Scoping Report has been submitted to the PASA for consideration and review. PASA will make a recommendation on the acceptance or rejection of the report to Department of Mineral Resources and Energy (DMRE), who will make the final decision in terms of Regulation 22 of the EIA Regulations, 2014. A copy of final Scoping Report has been made available on the SLR website (<https://slrconsulting.com/public-documents/total-esia>).

Should the Scoping Report be accepted, SLR would continue with the ESIA phase. As a registered I&AP, you will be notified when the ESIA Report is released for the review and comment period.

Should you have any queries on the above, or require any further information, please do not hesitate to contact our Ms Candice Sadan (csadan@slrconsulting.com).

Yours sincerely



Matthew Hemming Pr.Sci.Nat., EAP

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