1. **Project Background**

Sasol Mining (Pty) Ltd. is an existing coal mining company situated in close proximity to Secunda in the Mpumalanga Province and has been mining coal in this area for approximately 30 years. In 2008, Clean Stream Environmental Consultants (CSEC) was appointed by Sasol Mining (Pty) Ltd. to compile an Environmental Management Programme (EMP) including an Environmental Impact Assessment (EIA) to obtain the relevant authorisation required to commence mining at a new coal reserve, namely the Impumelelo Mine. The document entitled “Sasol Mining Impumelelo Mine: Environmental Management Programme (including Environmental Impact Assessment) under the MPRDA (2002) and the NEMA (1998)”, dated September 2011 with reference number: SM/B2N/02/2009, was submitted to both the Department of Economic Development, Environment and Tourism (DEDET) and the Department of Mineral Resources (DMR) on the 22nd of September 2009. Environmental authorisation was granted by the DEDET on the 13th of September 2010, and EMP approval was granted by the DMR on the 6th of July 2010. Sasol Mining (Pty) Ltd. has also applied for a Water Use Licence in May 2011 and submitted an additional Water Use Licence Application in September 2011, which was subsequently approved in June of 2013.

Sasol Mining’s Brandspruit Mine is nearing the end of its Life Of Mine. Impumelelo Mine will therefore be used to supplement the coal supply from the Brandspruit Mine and will continue to supply jobs to the existing Brandspruit Mine employees. Impumelelo Mine will thus supply coal to Sasol Synfuels, which utilises various processes and beneficiates the coal into a number of products such as petrol, diesel, plastics and various chemicals.

2. **Description of the activity**

The target mineral for the Impumelelo Mine is coal from the number 2 Seam and number 4 Seam. The coal from Impumelelo Mine will be transported via conveyor to the central Sasol Coal Supply facility. It will be sized, crushed and blended and fed into the Sasol Synfuels factory, which, through various processes beneficiates the coal into a number of products such as petrol, diesel, plastics and various chemicals.

The Impumelelo Mine boundary covers a total area of approximately 21 000 ha and it is anticipated that 252 Mt Run of Mine (ROM) coal is present in situ within the mine boundary area. Sasol Mining (Pty) Ltd. intends to mine the coal at the Impumelelo Mine utilising a combination of underground mining methods (e.g. bord-and-pillar and stooping methods).

2.1 **Description of the Proposed project**

The total area of the farm Mahemsfontein 544 IR is approximately 1760 ha. As for the original extent of the Impumelelo Mine, underground bord-and-pillar mining methods will be used to mine coal from the number 4 Coal Seam from the farm Mahemsfontein 544 IR. As the underground bord-and-pillar and stooping mining methods will be employed to mine the target coal seam, no additional infrastructure is currently foreseen to be constructed on the farm Mahemsfontein 544 IR (except for a possible ventilation shaft) or within the current mine boundary.

The Number 4 Coal Seam, on the farm Mahemsfontein 544 IR, will be accessed via advancing underground workings of the Impumelelo Mine. Therefore no additional infrastructure (with the exception of the possibility of a ventilation shaft) will be required to be constructed on the farm Mahemsfontein 544 IR.
3. Site Description
The Impumelelo Mine consists of an area of just under 21 000 ha in size. It is anticipated that approximately 252 Mt of coal will be mined from the site utilising a combination of underground mining methods (bord and pillar, and high extraction / stooping). The Impumelelo Mine is situated 45 km to the south-west of Secunda; 20 km east of Greylingstad and 60 km north-west of Standerton in the Mpumalanga Highveld (refer to Appendix A1). The Impumelelo Mine therefore also falls within the jurisdiction of the Gert Sibande District Municipality and the Dipaleseng, Lekwa and Govan Mbeki Local Municipalities respectively.

3.1 Site description of the proposed project
Sasol Mining (Pty) Ltd. is in possession of the Prospecting Rights over portions of the Farm Mahemsfontein 544 IR to the West of the current approved Mining Rights area of the Impumelelo Mine. Reserves from the number 4 Coal Seam (C4L) have been identified on the farm Mahemsfontein 544 IR (refer to Appendix A2) and Sasol Mining (Pty) Ltd. is proposing to mine this coal, using underground bord-and-pillar and stooping methods. Sasol Mining (Pty) Ltd. intends to commence the mining of this identified coal reserve; approximately, in the year 2021 as part of the Life of Mine plan for Impumelelo Mine.

As the proposed inclusion of the farm Mahemsfontein 544 IR into the approved Mining Right for Impumelelo Mine, is only an inclusion of the reserve into the Life of Mine Plan, no additional infrastructure (with the exception of the possibility of a ventilation shaft) is planned to be constructed on the farm Mahemsfontein 544 IR, as underground bord-and-pillar and stooping mining methods will be employed.

Figure 1.4: Sasol Impumelelo Mine Mahemsfontein 544 IR

Legend
- Impumelelo Mine
- Mahemsfontein 544 IR

Compiled by: Ashley Miller
Checked by: Bianch Prostma
Date compiled: 06/01/2014
4 Benefits of the Impumelelo Mine
The following existing benefits of the Impumelelo Mine have been identified:
- Impumelelo Mine allows for the continued supply of jobs to the existing workforce of the Sasol Mining (Pty) Ltd. Brandspruit mine.
- The mine product (coal) will be transported to the existing Sasol Coal Supply where it will be used to supplement the coal requirements of the Sasol Synfuels factory.
- The surrounding communities will continue to benefit through direct and indirect income; as well as the mine's use of local contractors and suppliers.

4.1 Benefits of the proposed project
The following benefits of the project have been identified:
- Inclusion of the farm Mahemsfontein 544 IR into the current Mining Rights area will extend the Life of Mine of the Impumelelo Mine.
- Sasol Mining (Pty) Ltd. will to continue supplying jobs to its current employees and may possibly create new jobs.
- The surrounding communities will continue to benefit through direct and indirect income; as well as the mine's use of local contractors and suppliers.

5 Existing Impacts associated with the Impumelelo Mine
The identified impacts associated with Impumelelo Mine include:
- The surface and underlying geology of the area may be disrupted.
- Topography may be altered due to cut and fill activities during the construction phase.
- The land capability may be altered by the removal and stockpiling of soil.
- There may be a loss of vegetation and habitat due to the clearing of vegetation for construction purposes.
- Animal life may decrease as a result of the increased surface land use activities, and habitat will be lost.
- Surface water quantity may decrease as contaminated water will be directed towards the pollution control dam.
- Surface water quality may decrease due to spillage.
- The groundwater quantity will be negatively affected due to dewatering activities of the mine.
- Groundwater quality may be affected through the infiltration of contaminated water.
- Noise levels are likely to increase as a result of the mining operations.
- Dust from the use of vehicles and machinery may decrease the air quality during construction.
- Visual impacts may occur as a result of newly constructed infrastructure.

5.1 Possible Impacts associated with the proposed project
Regulation 49(1)(c) of the Mineral and Petroleum Resources Development Regulations, Regulation 527, 2004 (MPRDR, 2004), under the Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002) (MPRDA, 2002), requires that the anticipated environmental, social, and cultural impacts be identified and described.

The impacts identified during the Scoping Phase (as well as any others identified during the EIA Phase) will be further assessed as part of the EMP (including EIA) process. A full impact assessment will be compiled as part of the EMP (including EIA). The following are some of the potential impacts that may be associated with the proposed project:
- The underlying geology of the area may be disrupted.
- The groundwater quantity may be negatively affected due to the practising of high extraction mining.
The target mineral for the Impumelelo Mine is coal from the Number 2 and Number 4 Coal Seams using underground bord-and-pillar mining methods. No beneficiation will take place at the Impumelelo Mine as the coal will be transported via overland conveyor to the Brandspruit Mine and then to the Sasol Coal Supply and ultimately to Sasol Synfuels for processing. The Impumelelo Mine, mine boundary covers an area of approximately 21 000 ha. It is anticipated that 252 Mt of ROM coal is present in situ within the current mine boundary area. It is anticipated 152 Mt of ROM coal will be mined from the Number 2 Coal Seam, and a further 99 Mt from the Number 4 Seam.

No new housing will be constructed for employees as the existing employees of the Brandspruit Mine will be transferred to the Impumelelo Mine. Transport to and from the Impumelelo mine will be made available for employees.

### Alternatives identified for the Proposed project

- **Alternative mining method:**
  - Bord and Pillar underground mining only.
  - Bord-and-Pillar underground mining with Stooping.
  - Longwall underground mining.
  - Strip opencast mining.
  - Underground Coal Gasification.

- **Alternative Mine Plan (extent of resources to be mined):**
  - Mining the coal only within the current mine boundary area of the Impumelelo Mine.
  - Mining the coal within the current mine boundary area of the Impumelelo Mine as well as two small additional areas for which Sasol Mining holds prospecting rights.

- **Alternatives in terms of extent:**
  - Utilising high extraction mining methods wherever possible, excluding only watercourses (as prescribed by Regulation 4(b) of the Regulations on use of water for mining and related activated aimed at the protection of water resources (GN 704)).
  - Utilising high extraction mining methods in all areas excluding existing infrastructure and watercourses.
  - Utilising high extraction mining methods in all areas excluding existing infrastructure, watercourses and rocky outcrops.

- **Alternative access to underground workings of the mine:**
  - Vertical shaft.
  - Incline shaft.

- **Alternative transportation of employees:**
  - Employees provide their own transport.
  - Sasol provides miners with transport. (Transport provided may include bus transport, taxi transport or a combination of transportation methods).
7. **Legislative requirements**

According to the MPRDA, 2002 and all regulations there under, it is required of Sasol Mining (Pty) Ltd. to compile a Scoping Report for the EMP Amendment Project. The Scoping Report has been compiled in terms of the MPRDA (2002). It is the intention of the Scoping Report to provide the necessary information regarding the proposed activities associated with the Impumelelo Mine.

Scoping is the procedure which is undertaken during the initial stages of the Planning Phase of a project, and is used to determine the extent of, and approach to an EMP and as well as an EIA, i.e. terms of reference. This process is required to be undertaken for the Impumelelo Mine EMP Amendment Project.

The objectives of this process are to:

- Provide an opportunity for the Applicant, relevant Authorities and I&APs to exchange information and express their views and concerns regarding the proposed project before the EMP as well as the EIA is undertaken.
- Focus the study on relevant anticipated impacts, issues and concerns, as well as reasonable alternatives, to ensure that the resulting EMP as well as EIA are useful to the Authorities (DMR and the DEA) for decision-making, and addresses the impacts, issues and concerns as identified.
- Facilitate an efficient assessment process that saves time, resources and costs.

8. **Role of Interested and Affected Parties (I&AP)**

You may be an I&AP of the Sasol Mining (Pty) Ltd.: Impumelelo Mine EMP Amendment Project. I&APs are any individuals who may be influenced, positively or negatively by, or are interested in the Sasol Mining (Pty) Ltd.: Impumelelo Mine EMP Amendment Project. If you are an I&AP, please register as one. The I&AP registration process is relatively simple, and is explained below. Also, if you know someone who should be involved in this project as an I&AP, please let Clean Stream Environmental Consultants (CSEC) know so that we can get into contact with them.

Your input to the project is important to the process, and may help to identify aspects that need to be considered during the assessment of impacts and alternative project options. Your involvement in the public participation process would therefore be valued and appreciated.

In the interest of the environment, it would be appreciated if any I&AP could provide CSEC with information that they may have, pertaining to the following matters within the area associated with and which is considered of relevance to the Sasol Mining (Pty) Ltd.: Impumelelo Mine EMP Amendment Project:

- Water (surface or groundwater).
- Noise or Air quality.
- Archaeological structures (e.g. graves).
- Soil, land use, and land capability.
- Ecological information (e.g. dominant fauna and flora species occurring within the study area).
- Sensitive landscapes (e.g. wetlands and pans).
- Socio-economic matters of concern / relevance to the Sasol Mining (Pty) Ltd.: Impumelelo Mine immediate surrounding area specifically.
9  

Invitation to a Public Meeting

A public meeting will be held to provide I&APs with more information regarding the Sasol Mining (Pty) Ltd.: Impumelelo Mine EMP Amendment Project. An opportunity will be given for stakeholders to provide their input and views, and to ask questions and / or raise concerns.

You are cordially invited to attend the public meeting as stipulated below:

Date of Meeting: 23 April 2014
Time: 11:00 – 13:00
Venue: The Val Hotel
RSVP: 17 April 2014

Please contact Ashley Miller or Natalie Lubbe of CSEC in order to confirm your attendance of the meeting on or before 17 April 2014 (refer to contact details below).

10  Availability of Scoping Report for Public Comment

To ensure that the Scoping Report focuses on the pertinent environmental issues of the proposed project and as part of the public participation process, the Scoping Report for the proposed project will be made available to I&APs.

The Scoping Reports will be available to the public for review for a period of thirty (30) days from 08 April 2014 to 13 May 2014.

The Scoping Reports will be available at the following locations:

• Sasol Mining (Pty) Ltd.: Impumelelo Mine security office.
• Greylingstad Post Office.

Your comments on the Scoping Report would be appreciated. A register and comment sheet will accompany the copies of the report that will be located at the mentioned viewing stations. Please complete the register once you have reviewed the Scoping Report and provide your comments and other input. Alternatively, please e-mail or fax your comments to CSEC (refer to contact details below) by 13 May 2014. An electronic copy of the Scoping Report will also be posted on the CSEC website (www.cleanstream.co.za) for public comment for the same period of thirty (30) days from 08 April 2014 to 13 May 2014.

11  Register as an I&AP

To register as an I&AP of this project, which will enable you to obtain more information and / or submit comments, please complete one of the Registration Forms, attached hereto as Appendix B2 and return it to CSEC (contact details below). The Registration Form is included twice in this document in order to allow for the completion of one of the Registration Forms and to allow you to keep a copy of the Registration Form. Alternatively, you can register on www.cleanstream.co.za.

Consultant: Clean Stream Environmental Consultants

Contact person: Ashley Miller / Natalie Lubbe

Tel: (012) 993 5988  E-mail: ashley@cleanstream.co.za / natalie@cleanstream.co.za
Fax: (012) 993 1361  Postal Address: P. O. Box 32201, Glenstantia, 0010
Appendix B1
Interested and Affected Parties
REGISTRATION FORM
Sasol Mining (Pty) Ltd.
Impumelelo Mine

I&AP Details:

Full name and surname: ____________________________
Tel (w): ____________________________ Tel (h): ____________________________
Contact details: Fax: ____________________________ Cell: ____________________________
e-mail: ____________________________
Postal address: ____________________________
Preferred method of communication: □ fax □ e-mail □ post
Preferred telephone number: □ cell □ home □ work
Organisation/Representative: ____________________________
Farm name, number and subdivision or
Street Address (if applicable): ____________________________

Questions
1) Where did you get information about the proposed project?
☐ Newspaper advertisement ☐ notice board ☐ radio ☐ other (please specify)

2) Do you represent a company/organisation or is your interest on behalf of yourself?

3) Do you know of anyone that is affected by the proposed activity who was not informed of the project? (Please provide contact details)

Water sources (Please supply all water sources, even if currently not used):

<p>| Water Source (e.g. municipal supply, dam, borehole, river, other (please specify)) | In case of a dam | In case of a borehole |</p>
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<thead>
<tr>
<th>(in the case of a river or tributary thereof, please specify the name)</th>
<th>No. of Dams</th>
<th>Capacity</th>
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Water uses:

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<td>☐ Other (Specify)</td>
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<td>☐ Other (Specify)</td>
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Categorised Issues of Concern:
(Tick boxes of any issues which concern you regarding the proposed project)

- Soil
- Ecology
- Employment
- Borehole yields
- Noise
- Economy
- Groundwater
- Borehole quality
- Visual
- Wetlands
- Quality of life
- Farm dam Quality
- Streams
- Air quality
- Surface water
- Waste management
- Security
- Archaeology
- Property value
- Land use & planning
- Nuisance
- Other (Specify)

Do you have any concerns or comments regarding the Sasol Mining (Pty) Ltd.: Impumelelo Mine EMP Amendment Project?

- [ ] YES
- [ ] NO

If yes, please indicate what the comments are:

_________________________________________________________________________________
_________________________________________________________________________________
_________________________________________________________________________________
_________________________________________________________________________________
_________________________________________________________________________________
_________________________________________________________________________________
_________________________________________________________________________________

The purpose of this questionnaire is to obtain any issues of concern or information that may assist us in generating a more accurate assessment of impacts relating to the proposed project, and will be included in subsequent reports for submission to the authorities.

- [ ] I understand the purpose of this questionnaire.
- [ ] I do not understand the purpose of this questionnaire.

The personal information (contact details) provided in this questionnaire will not be provided to any third party (aside from Sasol Mining (Pty) Ltd. and / or regulating authorities) unless legally required to do so. By completing, signing and submitting this registration form you give CSEC and Sasol Mining (Pty) Ltd. consent, as an adult over 18, to make use of the information provided and to contact you in future regarding any further development on this project.

_________________________________________________________________________________
Signed
_________________________________________________________________________________
Date

NOTE:
Forward completed forms to Clean Stream Environmental Consultants by no later than 13 May 2014.

Consultant: Clean Stream Environmental Consultants
Contact person: Ashley Miller / Natalie Lubbe
Tel: 012 993 5988
Fax: 012 993 1361
E-mail: ashley@cleanstream.co.za / natalie@cleanstream.co.za
Postal Address: P. O. Box 32201, Glenstantia, 0010
Appendix B2
Interested and Affected Parties

REGISTRATION FORM
Sasol Mining (Pty) Ltd.
Impumelelo Mine

I&AP Details:

Full name and surname: ____________________________________________
Contact details: Tel (w): __________________________ Tel (h): ____________
Fax: __________________________ Cell: __________________________
e-mail: __________________________
Postal address: ___________________________________________________

Preferred method of communication: [ ] fax [ ] e-mail [ ] post
Preferred telephone number: [ ] cell [ ] home [ ] work
Organisation/Representative: ____________________________________________
Farm name, number and subdivision or Street Address (if applicable):
______________________________________________________________

Questions

1) Where did you get information about the proposed project?
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______________________________________________________________________

2) Do you represent a company/organisation or is your interest on behalf of yourself?

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3) Do you know of anyone that is affected by the proposed activity who was not informed of the project? (Please provide contact details)

______________________________________________________________________

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Categorised Issues of Concern:
(Tick boxes of any issues which concern you regarding the proposed project)

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- Economy
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- Waste management
- Security
- Archaeology
- Property value
- Land use & planning
- Nuisance
- Other (Specify)

Do you have any concerns or comments regarding the Sasol Mining (Pty) Ltd.: Impumelelo Mine EMP Amendment Project?

[ ] YES  [ ] NO

If yes, please indicate what the comments are:

Signed Date

The purpose of this questionnaire is to obtain any issues of concern or information that may assist us in generating a more accurate assessment of impacts relating to the proposed project, and will be included in subsequent reports for submission to the authorities.

- I understand the purpose of this questionnaire.
- I do not understand the purpose of this questionnaire.

The personal information (contact details) provided in this questionnaire will not be provided to any third party (aside from Sasol Mining (Pty) Ltd. and / or regulating authorities) unless legally required to do so. By completing, signing and submitting this registration form you give CSEC and Sasol Mining (Pty) Ltd. consent, as an adult over 18, to make use of the information provided and to contact you in future regarding any further development on this project.

................................. .................................
Signed Date

NOTE:
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Consultant: Clean Stream Environmental Consultants
Contact person: Ashley Miller / Natalie Lubbe
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Clean Stream Environmental Consultants (Pty) Ltd.