



Our reference: SO-ENV-1340

29 November 2024

Your Ref: EA nr 12/12/20/2001] [DEA/EIA/0000101/2011

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Integrated Environmental Authorisations  
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Attention: Chief Directorate: Integrated Environmental Authorisations

## **ENVIRONMENTAL AUTHORISATION EXTERNAL REPORT SUBMISSION**

Environmental Authorisations of Sasol South Africa Limited, Sasolburg Operations was externally audited during October 2023. The external audits were conducted to comply to the requirement contained in Chapter 5 part 3 of the Environmental Impact Assessment Regulations.

Sub regulation 34 (6) of the regulations also requires the holder of the environmental authorisation to notify all potential and registered interested and affected parties of the submission of the report and make the report available on request to anyone and on a publicly accessible website, where available.

The external audit reports will be available on <https://www.sasol.com/esg/environmental-audit-reports>.

Sasolburg Operations appointed WSP to conduct the external audits on all Environmental Authorisations and accompanying Environmental Management Programs.

Attached, please find the compliance audit report for the Sasol Gas Engine Power Plant, Environmental Authorisation with reference 12/12/20/2001] [DEA/EIA/0000101/2011, dated November 2023.

The Report indicates compliance at large with 96% compliance noted. The non-compliance

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relates to changes in operational procedure impacting the management action and not the impact objective included in the EMPr.

Summary of non-compliance

Condition	Finding	Recommendation	Response
The oil from the oil-water separator must be skimmed off and recovered in the spent oil tank on-site. This must be undertaken once the oil-water separator has reached 75% tank capacity	It was not confirmed during the audit whether the oil from the oil-water separator must be skimmed off and recovered in the spent oil tank onsite.	It is recommended that this condition is amended to reflect the current spill management practices on site.	As per regulation 36, change in operational condition was noted to the auditor prior to the Audit commencing. This constitutes a change in the impact management action. Oily water is collected in the sludge tank and transported via tanker to the Sasol One effluent handling system.

The Audit report noted sufficient mitigation of environmental impacts and level of compliance to the Environmental Authorisation and Environmental Management Program (EMPr).

Further, in alignment with Chapter 5 Part 4 of the regulation, regulation 36 allows amendment to the impact management action of an EMPr to be affected immediately by the holder of the environmental authorisation and reflect it in the next environmental audit report. Annexure B contains the mitigation measures identified during the environmental impact assessment, for the operational phase of the project, defining the impact management outcome and impact management actions to enable compliance to this regulation.

Yours faithfully,

Signed by: Johann Van Wyk  
Signed at: 2024-11-29 12:55:17 +02:00  
Reason: I approve



**Johann van Wyk**  
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**Annexure A**

**Audit report.**

**Gas Engine Power Plant - SGEPP– ref [12/12/20/2001] [DEA/EIA/0000101/2011]**



Sasol South Africa Ltd

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**THE DEVELOPMENT OF A GAS ENGINE POWER PLANT ON A SITE ADJACENT TO THE EXISTING STEAM STATION TWO SITE IN SASOLBURG FREE STATE ENVIRONMENTAL AUTHORISATION (REF. NO: 12/12/20/2001) AND ENVIRONMENTAL MANAGEMENT PROGRAMME AUDIT**

Compliance Audit Report: November 2023





Sasol South Africa Ltd

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**THE DEVELOPMENT OF A GAS ENGINE  
POWER PLANT ON A SITE ADJACENT TO  
THE EXISTING STEAM STATION TWO SITE IN  
SASOLBURG FREE STATE ENVIRONMENTAL  
AUTHORISATION (REF. NO: 12/12/20/2001)  
AND ENVIRONMENTAL MANAGEMENT  
PROGRAMME AUDIT**

Compliance Audit Report: November 2023

**TYPE OF DOCUMENT (VERSION) CONFIDENTIAL**

**PROJECT NO. 41106358**

**DATE: NOVEMBER 2023**



Sasol South Africa Ltd

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**THE DEVELOPMENT OF A GAS ENGINE  
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AUTHORISATION (REF. NO: 12/12/20/2001)  
AND ENVIRONMENTAL MANAGEMENT  
PROGRAMME AUDIT**

Compliance Audit Report: November 2023

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# QUALITY CONTROL

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Prepared by	Tshepho Mamashela	Tshepho Mamashela		
Signature				
Checked by	Matilda Mbazo	Matilda Mbazo		
Signature				
Authorised by	Anri Scheepers	Anri Scheepers		
Signature				
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AUDITOR CVS

# 1 INTRODUCTION

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## 1.1 TERMS OF REFERENCE

WSP Group Africa (Pty) Ltd (WSP), as an independent environmental consultant, was appointed by Sasol South Africa Ltd (Sasol) to undertake an external environmental compliance audit of the commitments contained in the Environmental Authorisation (EA) (reference number: 12/12/20/2001) for the development of a Gas Engine Power Plant (SGEPP) on Erf 8036 adjacent to the existing Steam Station Two site in Sasolburg and the environmental management programme (EMPr), and to compile an audit report according to the requirements of the National Environmental Management Act (No. 107 of 1998) (NEMA).

The details of the EA (initial Record of Decision (RoD)), its amendment of the EA and the commitments for the operational phase of the project contained in the Environmental Impact Assessment audited for compliance of the construction of the SGEPP at Sasol SS2 are provided below:

- EA for the development of a Gas Engine Power Plant (SGEPP) on Erf 8036 adjacent to the existing Steam Station Two site in Sasolburg (reference number: 12/12/20/2001), dated 19 May 2011 and issued to Sasol New Energy Holding by the Department of Forestry, Fisheries and the Environment (DFFE) (previously DEA);
- The amendment of the EA for the development of a gas Engine Power Plant (reference number: 12/12/20/2001), dated 10 June 2013 and issued to Sasol Chemical Industries by the DFFE. The amendments include:
  - Change of the project scope;
  - Correction of location;
  - Change of the applicant details on the EA;
    - Owner of the EA
    - Contact details and address
  - Change of the holder of the EA.
    - Management of EA and address
- The amendment of the EA for the development of a Gas Engine Power Plant, (reference number: 12/12/20/2001), dated 09 December 2014 and issued to Sasol Chemical Industries by the DFFE. The amendments include:
  - Change of the applicant details on the EA;
    - Owner of the EA
    - Contact details and address
  - Change of the holder of the EA.
    - Management of EA and address

- The amendment of the EA for the development of a Gas Engine Power Plant, (reference number: 12/12/20/2001), dated 06 February 2018 and issued to SVP Sasolburg Operations by the DFFE. The amendments include:
  - Change the applicant details on the EA;
    - Owner of the EA
    - Contact details and address
  - Change of the holder of the EA.
    - Management of EA and address
  - Change of location.
    - Erf number
- EMPr.

This external audit was undertaken in accordance with Regulation 34 of the Environmental Impact Assessment (EIA) Regulations of 2014 (as amended) published in terms of the National Environmental Management Act 107 of 1998 (NEMA). This audit and report consider the period November 2018 to November 2023.

## 1.2 SASOL SASOLBURG – GAS ENGINE POWER PLANT

The Sasol gas engine power plant (SGEPP) is the largest natural gas-fired power plant in Africa and the first gas-based power plant in South Africa. The 140MW plant is located at Sasolburg, South Africa. It was commissioned in December 2012 and has been fully operational from July 2013. The power plant provide power for Sasol Wax expansion project and the ethylene purification unit five.

The powerhouse of SGEPP is divided into three sections. Each section contains six engines, interconnected to a medium-voltage room. The radiators are placed on the roof for improved cooling. The high-voltage equipment required for the plant is located in a separate building.

## 1.3 PROJECT TEAM

Tshepho Mamashela and Matilda Mbazoo completed a site inspection of the VMC Decanter against the EA conditions (reference: E/04/07) at the Sasol One on **31 October 2023**.

The draft external audit report was compiled in October 2023 and finalised in November 2023. The report was then submitted to the DESTEA, by Sasol, in 2024.

Quality assurance is a critically important part of WSP's consulting services which aim to ensure both delivery of high-quality work and provide legal and commercial protection to the company. Quality assurance of this audit report was undertaken by Anri Scheepers.

The project team is summarised in **Table 1-1** and Curricula Vitae are included as **Appendix A**.

### Table 1-1 - Details of the Audit Team



Audit Team	Role	Experience
Tshepho Mamashela	Auditor	<p>BSc Hons Environmental Management</p> <p>6 Years' Experience</p> <p>Tshepho Mamashela is an Environmental Consultant currently working for WSP Group Africa at the Johannesburg, Waterfall office in the Environmental Planning and Advisory Department. She is an Environmental Management professional with over 5 years' experience in the private and public sector. Tshepho has experience in environmental management field with expertise in environmental impact assessment, environmental auditing, environmental management plans.</p> <p>She is registered with the Environmental Assessment Practitioners Association of South Africa (EAPASA: 2019/1846) and the South African Council for Natural Scientific Professions (SACNASP: 120878).</p>
Matilda Mbazo	Auditor	<p>BSc (Hons) Geography</p> <p>Matilda graduated from the University of Wits with a BSc honours in Geography in 2023 and is currently completing her MSc Environmental Science. She has over a year's experience in environmental management and currently provides technical and strategic input on a diverse range project in environmental management and environmental compliance audits. She is a registered Candidate Environmental Assessment Practitioner (EAP) with EAPASA (2023/6394).</p>
Anri Scheepers	Review	<p>BA (Hons) Geography</p> <p>15 Years' Experience</p> <p>Anri graduated from the University of Johannesburg with a BA honours in Geography in 2007. Anri has been involved in numerous mining and industrial projects in South Africa, and has experience with diamond, gold, platinum, chrome, coal and manganese mining and processing operations. Anri is qualified as a Lead Auditor and has undertaken legal compliance auditing, including environmental authorisations, waste management licences, water use licences and EMPs. In addition, she has undertaken general site assessments to determine compliance against local, provincial and national environmental legislation. Anri's roles and responsibilities include the management of Environmental Authorisation and Waste Management Licence processes (Basic Assessments and Scoping and Environmental Impact Assessment Reporting), Water Use Licence Application processes and auditing.</p> <p>She is registered with the Environmental Assessment Practitioners Association of South Africa (EAPASA: 2019/1528)</p>

## 2 AUDIT SCOPE

WSP was appointed by Sasol to conduct the environmental compliance audit for the development of a Gas Engine Power Plant on a site adjacent to the existing Steam Station Two site in Sasolburg, Free State Province. This report provides an overview of the level of compliance with the conditions contained in the EA and EMPr as indicated in in **Section 1.1**. The site audit was undertaken on 25 October 2023 at the Sasol SGEPP, Sasolburg Plant.

The objective of the audit was to:

- Assess the level of compliance with the commitments of the EA for the development of the Gas Engine Power Plant;
- Assess the level of compliance with the commitments of the EMPr that was submitted as part of the Scoping Report for the licencing of the Gas Engine, as agreed and approved by DFFE;
- Assess the extent to which the avoidance, management and mitigation measures provided for in the EMPr for the operation of the gas engine power plant was implemented;
- Identify and assess any new impacts and risks that result from undertaking the activity;
- Critically evaluate the effectiveness of the EA;
- Identify shortcomings in the EA and scoping report impact mitigations; and
- Identify the need for any changes to the avoidance, management and mitigation measures provided for in the EA conditions and EMPr.

The EIA Regulations of 2014 (as amended) are considered applicable to the gas engine power plant operations. Regulation 34, of the EIA Regulations, provides for the auditing of an EA, EMPr and closure plan. Furthermore, **Appendix 7** of Government Notice Regulation (GNR) 982 outlines the required audit report content. The 2014 Regulations, as amended, refer to a minimum audit frequency of five years. This audit is designed to meet the requirements of Regulation 34 of the EIA Regulations of 2014 (as amended). **Table 2-1** indicates where the requirements of Section 34 and **Appendix 7** are met within this audit report.

**Table 2-1 - Regulation 34 and Appendix 7 of the EIA Regulations (2014)**

Sub-Section	Requirement	Report Section Reference
34 (2)a	The environmental audit report must be prepared by an independent person with the relevant environmental auditing expertise.	<b>Sub-section 1.3</b> and CVs provided in <b>Appendix A</b>
34(2)b	The environmental audit report must provide verifiable findings, in a structured and systematic manner, on:  (i) the level of performance against and compliance of an organisation or project with the provisions of the requisite environmental authorisation or EMPr and, where applicable, the closure plan; and  (ii) the ability of the measures contained in the EMPr, and where applicable the closure plan, to sufficiently provide for the avoidance, management and mitigation of environmental impacts associated with the undertaking of the activity;	Audit checklist tables provided in <b>Section 4</b>

Sub-Section	Requirement	Report Section Reference
3(a)	<p>The environmental audit report must determine</p> <p>(a) the ability of the EMPr, and where applicable the closure plan, to sufficiently provide for the avoidance, management and mitigation of environmental impacts associated with the undertaking of the activity on an ongoing basis and to sufficiently provide for the avoidance, management and mitigation of environmental impacts associated with the closure of the facility; and</p>	<b>Section 4</b>
3(b)	<p>The environmental audit report must determine the level of compliance with the provisions of environmental authorisation, EMPr and where applicable, the closure plan.</p>	<b>Section 4</b>
4(a)	<p>Where the findings of the environmental audit report indicate:</p> <p>(a) insufficient mitigation of environmental impacts associated with the undertaking of the activity</p> <p>(b) insufficient levels of compliance with the environmental authorisation or EMPr</p> <p>the holder must, when submitting the environmental audit report to the competent authority submit recommendations to amend the EMPr or closure plan in order to rectify the shortcomings identified in the environmental audit report</p>	<b>Section 4</b>
a	<p>Details of-</p> <p>(i) the independent person who prepared the environmental audit report; and</p> <p>(ii) the expertise of independent person that compiled the environmental audit report.</p>	<b>Sub-section 1.3</b> CVs provided in <b>Appendix A</b>
b	<p>A declaration that the independent auditor is independent in a form as may be specified by the competent authority.</p>	<b>Sub-section 9</b>
c	<p>An indication of the scope of, and the purpose for which, the environmental audit report was prepared.</p>	<b>Sub-section 1.1 and Section 2</b>
d	<p>A description of the methodology adopted in preparing the environmental audit report.</p>	<b>Section 3</b>
e	<p>An indication of the ability of the EMPr, and where applicable, the closure plan to-</p> <p>(i) sufficiently provide for the avoidance, management and mitigation of environmental impacts associated with the undertaking of the activity on an on-going basis;</p> <p>(ii) sufficiently provide for the avoidance, management and mitigation of environmental impacts associated with the closure of the facility; and</p> <p>(iii) ensure compliance with the provisions of environmental authorisation, EMPr, and where applicable, the closure plan.</p>	<b>Section 4</b>
f	<p>A description of any assumptions made, and any uncertainties or gaps in knowledge.</p>	<b>Sub-sections 0 and 2.2</b>

Sub-Section	Requirement	Report Section Reference
g	A description of any consultation process that was undertaken during the course of carrying out the environmental audit report.	Sub-section 3.2
j	A summary and copies of any comments that were received during any consultation process.	Comments received during the consultation process were included as comments in the audit checklist tables in Section 4.
k	Any other information requested by the competent authority.	None requested

## 2.1 DISCLAIMER

This Report has been prepared by WSP on behalf and at the request of Sasol in terms of Regulation 34 of the EIA Regulations.

Unless otherwise agreed by us in writing, we do not accept responsibility or legal liability to any person other than the Client for the contents of, or any omissions from, this Report.

To prepare this Report, we have reviewed only the documents and information provided to us by the Client or any third parties directed to provide information and documents to us by the Client. We have not reviewed any other documents in relation to this Report and except where otherwise indicated in the Report.

The findings, recommendations and conclusions given in this report are based on the author's best scientific and professional knowledge, as well as available information. This report is based on survey and assessment techniques which are limited by time and budgetary constraints relevant to the type and level of investigation undertaken; WSP and its staff reserve the right to modify aspects of the report including the recommendations if and when new information may become available from on-going research or further work in this field or pertaining to this investigation.

Although WSP exercises due care and diligence in rendering services and preparing documents, WSP accepts no liability, and Sasol, by receiving this document, indemnifies WSP and its directors, managers, agents and employees against all actions, claims, demands, losses, liabilities, costs, damages and expenses arising from or in connection with the services rendered, directly or indirectly by the use of the information contained in this document.

This report must not be altered or added to without the prior written consent of the author. This also refers to electronic copies of this report which are supplied for the purposes of inclusion as part of other reports. Similarly, any recommendations, statements or conclusions drawn from or based on this report must make reference to this report. If this report is used as part of a main report, the report in its entirety must be included as an appendix or separate section to the main report.

## 2.2 ASSUMPTIONS AND LIMITATIONS

WSP noted the following assumptions and limitations during the audit:

- The information provided by Sasol is up to date and accurately represents the Sasol Sasolburg operations;
- WSP viewed as much of the operational area as possible given the timeframe and access limitations;
- Findings made within the previous audit reports are correct; and
- Site photographs were not provided in the audit report due to the onsite Sasol Sasolburg policy that disallows any photographs being taken on site. Where conditions were deemed compliant, and the evidence cited was onsite observations and verbal confirmation, these findings were observed by the Auditors..

### **3 THIS REPORT HAS BEEN PREPARED BY WSP AT THE REQUEST OF SASOL AND THE TERMS OF REFERENCE AS DETAILED IN SECTION 1.1. AUDIT METHODOLOGY**

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The International Organisation of Standardisation (ISO) 14010, ISO 14011 and ISO 14012 guideline documents were utilised as a template during the compliance audit process. This methodology ensures that the compliance audit was conducted in a systematic and independent manner that was documented and objectively evaluated to determine compliance to the EA commitments.

The audit process comprised the following:

- Confirmation of the audit checklist;
- Site inspection (**25 October 2023**);
- Review of documentation relevant to the commitments of the EA and Scoping report mitigations (e.g., records, permits, certificates, maintenance logs, monitoring results, previous audit reports, specialist reports (where available and applicable), etc.); and
- Compilation of an audit report.

#### **3.1 AUDIT CHECKLIST**

WSP compiled a checklist of the EA and scoping report impact mitigation commitments, which was used as an auditing compliance tool. Refer to **Table 4.1** and **Table 4-2** for the audit checklist.

#### **3.2 SITE INSPECTION AND INTERVIEWS**

An onsite inspection was conducted on **25 October 2023** where findings and observations were recorded and are summarised in **Section 4**. Key personnel interviewed during the audit included:

- Suyen Van Zyl
- Antoinette Oosthuysen
- Sairisha Ramnanan

#### **3.3 INFORMATION CONSIDERED**

Information related to the following categorises was reviewed, where required, and used to evaluate compliance:

- Notification: To install Safety Signs at Monomers Plan (Ref: 30645718) dated 29 March 2023

- Application for Amendment of an Environmental Authorisation (Ref no: E/04/02) dated 18 August 2019
- Air Emissions Licence (AEL) (reference number: FDDM-MET-2013-24-R1);
- Sasolburg and Ekandustria Operations Annual Emission Report (August 2022) to ensure compliance with the AEL conditions;
- Water Use Licence (WUL) (reference number: 14/C22K/FG/4958);
- Groundwater Quality Monitoring Report: WUL Compliance, Sasolburg Operations: February 2022 (WSP, May 2022)
- Integrated Water and Waste Management Plan (IWWMP) Rev 1 – report number: SO-env-1075 (Sasolburg Operations, December 2022) that includes the:
  - Stormwater Management Plan (SWMP, 2022);
  - Rehabilitation Strategy and Implementation Plan (RSIP);
  - Water Conservation and Demand Management (WC/DM);
  - Malfunctions register;
  - Water management;
  - Groundwater management;
  - Waste management;
  - Contaminated Water and Wastewater Management;
  - Effluent Management; and
  - Land management.
- Storm Water management Plan Sasolburg Operations (File no: 27/2/2C222/6/4) (Sasolburg Operations, December 2021);
- Sasolburg and Ekandustria Operations ISO 45001:2018, ISO 9001:2015 and ISO 14001:2015 Recertification Audit Report (DQS Management Systems Solutions, November 2021);
- Procedure for the management of waste on the Sasolburg Operations' Sites (document number: SSP-S-014) (Sasolburg Operations, August 2022)
- The reporting, investigation and recording of environmental incidents (document number: SSP-S-013) (Sasolburg Operations, July 2019);
- Noise survey and impact assessment for hearing conservation purposes, Sasolburg Operations Wax, Solvents and Chemicals, Cresol, S4300 (Sasol Approved Inspection Authority for Occupational Hygiene, March 2021);
- Waste Management and Disposal Registers;
- Environmental Standards;
- Health and Safety Standards and Audits;
- Other related approvals documents.

### 3.4 ASSESSMENT EVALUATION METHODOLOGY

The consolidated report contains all commitments, which were formulated as part of the original and amended EA and EMPr. Each commitment contained in the audit checklist was assessed by reviewing site documentation, interviewing employees, and undertaking a site inspection. The application of the EMPr was assessed and the level of compliance rated (compliance categories contained in **Table 3-1**). The compliance of the operations listed in **Section 1.2** was assessed.

**Table 3-1 Levels of Compliance**

Compliance Level	Definition
Compliant (C)	<p>When an activity or commitment has been implemented, completed, is on-schedule or is maintained on an ongoing basis.</p> <p>Condition/mitigation measure/commitment has been achieved with evidence provided in the form of a document or site verification.</p>
Non-compliant (NC)	<p>When an activity or commitment has not been complied with in its entirety/certain aspects thereof have not been addressed.</p> <p>When a commitment has not been undertaken, not been completed according to plan, or where any unlawful actions have been identified. Non-compliant conditions are given target completion dates as follows:</p> <ul style="list-style-type: none"> <li>— Short term: 0 – 6 months.</li> <li>— Medium term: 6 – 12 months.</li> <li>— Long term: 12 - 18 months</li> </ul>
Not applicable (N/A)	<p>The condition, commitment and/or mitigation measure is not applicable or is to be revised in accordance with current practice.</p> <p>A “Not Applicable” finding is also noted in event where such condition, commitment and/or mitigation measure is not yet relevant but is still relevant for future activities.</p>



## 4 AUDIT FINDINGS

### 4.1 ENVIRONMENTAL AUTHORISATION

Table 4-1 below provides the compliance of Sasol with the conditions within the EA and amendments to the EA.

**Table 4-1 - Environmental Authorisation (reference: 12/12/20/201 dated 19 May 20121 and Amendment (reference: 12/12/20/201 dated 10 June 2013, 09 December 2014 and 06 February 2018) Audit Findings**

Ref	Condition	Compliance Status	Findings	Recommendations
<b>EA – 12/12/20/2001 (as amended)</b>				
<b>Scope of authorisation</b>				
1.	The preferred site located on Erf 8037 which is adjacent to the existing Steam Station Two Power Plant sure is approved.	<b>C</b>	The Gas engines are located on f 8037 which is adjacent to the existing Steam Station Two Power Plan.  <i>Evidence:</i> <ul style="list-style-type: none"> <li>▪ Onsite observation</li> <li>▪ Verbal confirmation</li> <li>▪ Amendment to the EA (06 February 2018)</li> </ul>	None.
2.	Authorisation of the activity is subject to the conditions contained in this authorisation, which forms part of the environmental authorisation and are binding on the holder of the authorisation.	<b>N/A</b>	The holder of the EA and the Auditor have noted this condition.	None.
3.	The holder of the authorisation shall be responsible for ensuring compliance with the conditions contained in this environmental authorisation. This includes any person acting on the holder's behalf,	<b>C</b>	Conditions of the EA are displayed in some areas for personnel to read. EA training for personnel also takes place.  <i>Evidence:</i> <ul style="list-style-type: none"> <li>▪ Verbal Communication</li> </ul>	None.

Ref	Condition	Compliance Status	Findings	Recommendations
	including but not limited to, an agent, servant, contractor, sub-contractor, employee, consultant or person rendering a service to the holder of the authorisation.		<ul style="list-style-type: none"> <li>Onsite observation of the displayed EA conditions</li> </ul>	
4.	The activities authorised may only be carried out at the property described above.	C	<p>Gas engines are located on f 8037.</p> <p><i>Evidence:</i></p> <ul style="list-style-type: none"> <li>Onsite observation</li> <li>Verbal confirmation</li> <li>Google Earth</li> <li>Amendment to the EA (06 February 2018)</li> </ul>	None.
5.	The recommendations and mitigations measures recorded in the Environmental Impact Report (EIR) dated 03 February 2011 must be adhered to.	C	<p>Sasol ensure compliance with the mitigation measure by conducting external performance audits.</p> <p><i>Evidence:</i></p> <ul style="list-style-type: none"> <li>External audits if EAs/RODs/EMPr: Gas Power Plant (November 2018)</li> </ul>	None.
6.	Any changes to, or deviations from, the project description set out in this authorisation must be approved, in writing, by the Department before such changes or deviations may be affected. In assessing whether to grant such approvals or not, the Department may request such information as it deems necessary to evaluate the significance and impacts of such changes or deviations and may be necessary for the holder of the authorisation to apply for further authorisation in terms of the regulations.	C	<p>The Department has been notified of the change in activity scope through the amendment process. The amendment to the EA was granted on 10 June 2013.</p> <p><i>Evidence:</i></p> <ul style="list-style-type: none"> <li>Amendment to the EA (10 June 2013)</li> </ul>	None.



Ref	Condition	Compliance Status	Findings	Recommendations
7.	This activity must commence within a period of three (3) years from the date of issue of this authorisation. If commencement of the activity does not occur within that period, the authorisation lapses and a new application for environmental authorisation must be made in order for the activity to be undertaken.	N/A	This condition is outside the audit period and refers to a requirement during the pre-construction phase and not the operational phase, therefore it was not audited.	None.
8.	Commencement with one activity listed in terms of this authorisation constitutes commencement of all authorised activities.	N/A	The holder of authorisation and the Auditor has noted this condition.	None.
9.	The authorisation does not negate the holder of the authorisation's responsibility to comply with any other statutory requirements that may be applicable to the undertaking of the activity.	C	<p>SGEPP site enforces other requirements from other authorities on site.</p> <p><i>Evidence:</i></p> <ul style="list-style-type: none"> <li>■ Onsite observation</li> <li>■ Verbal communication</li> <li>■ AEL</li> <li>■ WUL</li> </ul>	None.
10.	<p>Relevant legislation that must be complied with by the holder of the authorisation included <i>inter alia</i></p> <ul style="list-style-type: none"> <li>• The National Heritage Resources Act, 1999 (Act Ni. 25 of 1999) protecting the archaeological remains, artificial features and structures older than 60 years. Should any archaeological artefacts be exposed during excavations for the purpose of construction, construction in the</li> </ul>	N/A	Noted. This audit scope did not cover a legal review of compliance of the SGEPP with all statutory requirements and whether they were in possession and compliance of all the necessary permits, authorisations or any other official documents.	None.



Ref	Condition	Compliance Status	Findings	Recommendations
	<p>vicinity of the finding must be stopped immediately. A registered Heritage Specialist must be called to the site for inspection. Under no circumstances shall any heritage material be destroyed or removed from the site and the relevant heritage resource agency must be informed about the findings. Heritage remains uncovered or disturbed during earthworks must not be disturbed further until the necessary approval has been obtained from the South African Heritage Resources Agency and/or any of their delegated provincial agencies.</p> <ul style="list-style-type: none"> <li>• All provisions of the Occupational Health and Safety Act, 1993, (Act 85 of 1993).</li> <li>• All provisions of the National Water Act, 1998, (Act 36 of 1998).</li> <li>• All provisions of the National Forest Act, 1998 (Act 84 of 1998).</li> <li>• All provisions of the National Environmental Management: Biodiversity Act, 2004 (Act 10 of 2004).</li> <li>• All provisions of the National Environmental: Protected Area Act 2003, (Act 57 of 2003).</li> <li>• All provisions of National Environmental Management: Air Quality Act, 2004 (Act 39 of 2004) and its regulations.</li> </ul>			



Ref	Condition	Compliance Status	Findings	Recommendations
	<ul style="list-style-type: none"> <li>All provisions of the Free State Province and Fezile Dabi District Municipality By-Law.</li> <li>Should fill material be required for any purposes, the use of borrow pits must comply with the provisions of the Mineral and Petroleum Resources Development Act, 2002 (Act 28 of 2002) administered by the Department of Mineral Resources.</li> </ul>			
11.	An integrated waste management approach must be implemented that is based on waste minimisation and must incorporate reduction, recycling, re-use and disposal where appropriate. Any solid waste shall be disposed of at a landfill licensed in terms of section 20(b) of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008).	C	<p>Sasolburg Operations have the waste management procedure which is adhered to. Competent service providers were appointed to remove the waste from site. Safe disposal certificates are kept onsite.</p> <p><i>Evidence:</i></p> <ul style="list-style-type: none"> <li>IWWMP' - Integrated Water and Waste Management Plan (IWWMP), Storm Water Management Plan (SWMP), Rehabilitation Strategy and Implementation Plan (RSIP), Water Conservation and Demand Management (WC/DM) Ref: SO-env-1075 DWA file number 27/2/2/C222/6/4.</li> <li>Verbal Confirmation</li> <li>Waste Manifests and Certificates</li> </ul>	None.
12.	The holder of the authorisation must notify the competent authority of any alienation, transfer and changes of ownership rights in the property on which the activity is to take place.	C	<p>The Department was notified about the change of the contact person; this was not a new owner.</p> <p><i>Evidence:</i></p> <ul style="list-style-type: none"> <li>Amendment of EA – dated 10 June 2013</li> <li>Amendment of EA – dated 09 December 2014</li> </ul>	None.



Ref	Condition	Compliance Status	Findings	Recommendations
			<ul style="list-style-type: none"> <li>Amendment of EA – dated 06 February 2018</li> </ul>	
<b>Notification of authorisation and appeal</b>				
13.	The holder of the authorisation must notify every registered interested and affected party, in writing and within 12 (twelve) calendar days of the date of this environmental authorisation of the decision to authorise the activity.	N/A	This condition is outside the audit period and refers to a requirement during the pre-construction phase and not the operational phase, therefore it was not audited.	None.
14.	<p>The notification referred to must:</p> <p>14.1 Specify the date on which the authorisation was issued;</p> <p>14.2 Inform the interested and affected party of the appeal procedure provided for in Chapter 7 of the Environmental Impact Assessment Regulations, 2019;</p> <p>14.3 Advise the interested and affected party that a copy of the authorisation will be furnished on request; and</p> <p>14.4 Give the reasons of the competent authority for the decisions.</p>	N/A	This condition is outside the audit period and refers to a requirement during the pre-construction phase and not the operational phase, therefore it was not audited	None.
15.	<p>The holder of the authorisation must publish a notice –</p> <p>15.1 Informing interested and affected parties of the decision;</p>	N/A	This condition is outside the audit period and refers to a requirement during the pre-construction phase and not the operational phase, therefore it was not audited	None.



Ref	Condition	Compliance Status	Findings	Recommendations
	<p>15.2 Informing interested and affected parties where decision can be accessed; and</p> <p>15.3 Drawing the attention interested and affected parties to the fact that an appeal may be lodged against this decision in the newspaper(s) contemplated and used in terms of regulation 54(2)(c) and (d) and which newspaper was used for the placing of advertisements as part of the public participation process.</p>			
<b>Management of the activity</b>				
16.	The Environmental Management Programme (EMPr) submitted as part of the application for environmental authorisation is hereby approved and must be implemented during construction of the activity.	<b>C</b>	<p>EMPr mitigations are implemented, and Sasol measures the success of their compliance through the EA and EMPr external audit.</p> <p><i>Evidence:</i></p> <ul style="list-style-type: none"> <li>▪ External Audits of EAs/RoD/EMPr (2018)</li> </ul>	None.
17.	The EMPr will be seen as a dynamic document. However, any changes to the EMPr must be submitted to the authorities for approval before such changes could be affected.	<b>N/A</b>	The holder of the authorisation and the auditor have noted this condition.	None.
18.	The EMPr must be included in all contract documentation for the construction phase of the development.	<b>N/A</b>	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.



Ref	Condition	Compliance Status	Findings	Recommendations
19.	The recommendations and mitigation measures recorded in the EIR dated February 2011 must be adhered to and incorporated as part of the EMPr where applicable.	C	Impact mitigation listed in the EMPr and EIR reported have been implemented and are audited for compliance externally by and independent auditor.  <i>Evidence:</i> <ul style="list-style-type: none"> <li>External audits if EAs/RODs/EMPr: Gas Power Plant (November 2018)</li> </ul>	None.
20.	The provisions of the EMPr are extension of the conditions of the EA and therefore non-compliance with the EMPr would constitute non-compliance with the EIA.	C	Impact mitigation listed in the EMPr and EIR reported have been implemented and are audited for compliance externally by and independent auditor.  <i>Evidence:</i> <ul style="list-style-type: none"> <li>External audits if EAs/RODs/EMPr: Gas Power Plant (November 2018)</li> </ul>	None.
<b>Monitoring</b>				
21.	The applicant must appoint a suitably experienced independent Environmental Control Officer (ECO) for the construction phase of the development that will have the responsibility to ensure that the mitigation/rehabilitation measures and recommendations referred to in this authorisation are implemented and to ensure compliance with the provisions of the EMPr.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.
22.	The ECO shall be appointed before commencement of any authorised activity/ies.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.



Ref	Condition	Compliance Status	Findings	Recommendations
23.	Once appointed, before the name and contact details of the ECO must be submitted to the Director: Compliance Monitoring of the Department.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.
24.	The ECO shall keep records of all activities on site, problems identified, transgressions notes and task schedule of tasks undertaken by the ECO.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.
25.	The ECO shall remain employed until all rehabilitation measures, as required for implantation due to construction damages, are completed and the site is ready for operation.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.
26.	Records relating to monitoring and auditing must be kept on site and made available for inspection to any relevant and competent authority in respect of this development.	C	Monitoring records relating to the operational phase are kept on site. Operational audit reports are sent to the Department.  <i>Evidence:</i> <ul style="list-style-type: none"> <li>External audits if EAs/RODs/EMPr: Gas Power Plant (November 2018)</li> </ul>	None.
27.	All documentations e.g., audit/monitoring/compliance reports and notification, required to be submitted to the Department in terms of this authorisation, must be submitted to the Director: Compliance Monitoring at the Department.	C	Monitoring records relating to the operational phase are kept on site. Operational audit reports are sent to the Department.  <i>Evidence:</i> <ul style="list-style-type: none"> <li>External audits if EAs/RODs/EMPr: Gas Power Plant (November 2018)</li> </ul>	None.
28.	The holder of the authorisation must submit and environmental audit report to the Department within 30 days of completion of the construction and rehabilitation activities.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.



Ref	Condition	Compliance Status	Findings	Recommendations
29.	The environmental audit report must indicate the date of the audit, the name of the auditor and the outcome of the audit in terms of compliance with the environmental authorisation conditions as well as the requirements of the EMPr.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.
30.	Records relating to monitoring and auditing must be kept on site and made available for inspection to any relevant and competent authority in respect of this development.	C	Monitoring records relating to the operational phase are kept on site. Operational audit reports are sent to the Department.  <i>Evidence:</i> <ul style="list-style-type: none"> <li>External audits if EAs/RODs/EMPr: Gas Power Plant (November 2018)</li> </ul>	None.
31.	All compliance monitoring and audit reports must be submitted to the Director: Compliance Monitoring.	C	Monitoring records relating to the operational phase are kept on site. Operational audit reports are sent to the Department.  <i>Evidence:</i> <ul style="list-style-type: none"> <li>External audits if EAs/RODs/EMPr: Gas Power Plant (November 2018)</li> </ul>	None.
<b>Commencement of activity</b>				
32.	The authorised activity/ies shall not commence withing thirty (30) days of the date of signature of the authorisation.	N/A	This condition is outside the audit period and refers to a requirement during the pre-construction phase and not the operational phase, therefore it was not audited.	None.
33.	An appeal under section 43 of the National Environmental Management Act (NEMA), Act 107 of 1998 (as amended), does not suspend an environmental authorisation or exemption, or any provisions or conditions attached thereto, or any directive, unless	N/A	This condition is outside the audit period and refers to a requirement during the pre-construction phase and not the operational phase, therefore it was not audited.	None.

Ref	Condition	Compliance Status	Findings	Recommendations
	the Minister, MEC or delegated organ of states otherwise.			
34.	Should you be notified by the Minister of a suspension of the authorisation pending appeal procedures, you may not commence with the activity/ies until such time that the Minister allows you to commence with such an activity in writing.	N/A	This condition is outside the audit period and refers to a requirement during the pre-construction phase and not the operational phase, therefore it was not audited.	None.
<b>Notification to authorities</b>				
35.	Fourteen (14) days written notice must be given to the Department that the activity will commence. Commencement for the purposes of this conditions includes site preparation. The notice must include a date on which it is anticipated that the activity will commence, as well as a reference number. This notification period may coincide with the period contemplated in condition 32.	N/A	This condition is outside the audit period and refers to a requirement during the pre-construction phase and not the operational phase, therefore it was not audited.	None.
<b>Operation of the activity</b>				
36.	Fourteen (14) days written notice must be given to the Department that the activity operational phase will commence.	N/A	This condition is outside the audit period and refers to a requirement during the pre-construction phase and not the operational phase, therefore it was not audited.	None.
37.	Air quality stack monitoring must be undertaken once the plant is in operation in order to verify get emissions from the process. The air quality monitoring and modelling must also continue as part of the Sasol air quality monitoring programme.	C	All air quality monitoring done in accordance with AEL conditions. Emissions monitoring protocol is established and implemented. <i>Evidence:</i>	None.



Ref	Condition	Compliance Status	Findings	Recommendations
			<ul style="list-style-type: none"> <li>Air Emissions Licence (AEL) (reference number: FDDM-MET-2013-24-R1);</li> <li>Sasol Technology Pty Ltd: Proposed Sasol Chemical Industries (SCI) Natural Gas Project Final Scoping Report (ref no:260293/3) dated January 2001</li> </ul>	
<b>Site closure and decommissioning</b>				
38.	Should the activity ever cease or become redundant, the applicant shall undertake the required actions as prescribed by the legislation at the time and comply with all relevant legal requirements administered by any relevant and competent authority at the time.	N/A	This condition is outside the audit period and refers to a requirement during the decommissioning phase and not the operational phase, therefore it was not audited	None.
<b>Specific conditions</b>				
39.	During the construction phase of the development, an effective monitoring system must be put in place to detect any leakage and spillage of all hazardous substances during transportation, their handling, installation and storage.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited	None.
40.	All apparatus must be operated in accordance with their design specifications and all maintenance and repair operation requirements must be maintained to ensure optimum performance and minimum emissions.	C	<p>Engines are operated in accordance with their design specifications. Continuous maintenance of gas engines take place to ensure optimum performance and minimum emissions.</p> <p><i>Evidence:</i></p> <ul style="list-style-type: none"> <li>Verbal confirmation</li> <li>Onsite observation of the maintenance register.</li> </ul>	None.



Ref	Condition	Compliance Status	Findings	Recommendations
41.	There must be an induction course/environmental awareness programme for the contractors before the commencement of the activity to ensure that the contractors are fully aware of the requirements of the EMPr and their responsibilities.	N/A	This condition is outside the audit period and refers to a requirement during the pre-construction phase and not the operational phase, therefore it was not audited.	None.
42.	The applicant, contractors and sub-contractors working on site must ensure that oil, fuel and chemicals are confined to specific and secured area throughout the construction period.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.
43.	All construction works noise levels must comply with relevant noise regulations.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.
44.	Dust generated by construction activities must be minimised by applying appropriate dust suppression measures as stipulated in the EMPr.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.
45.	All storm water infrastructure must be kept clean of waste.	C	Stormwater systems are kept clean of waste. There are bund around tanks to stop hydrocarbon contamination. Additionally, Metsimaholo (service provider) cleans and remove weeds off the storm water channels.  <i>Evidence:</i> <ul style="list-style-type: none"> <li>▪ Verbal confirmation</li> <li>▪ Onsite observation</li> </ul>	None.
46.	The applicant must ensure that the storage and maintenance of machinery on-site does not cause pollution of the environment or harm to persons	C	Maintenance of machineries takes place in an environmentally friendly manner where care is taken to ensure that	None.



Ref	Condition	Compliance Status	Findings	Recommendations
			contaminations and pollution of the environment does not take place.  <i>Evidence:</i> <ul style="list-style-type: none"> <li>Verbal confirmation</li> </ul>	
47.	Adequate ablution facilities must be provided for construction workers operating on site. Such facilities must be maintained, and no chemical or wastewater must be allowed to contaminate the runoff on site. Sanitary arrangements must be to the satisfaction of the local authority.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.
48.	Cement mixing on site during construction must take place within a designated area on an impermeable surface where the runoff can be appropriately contained and areas where mixing occurs must be cleaned up after us to avoid permanent soil contamination.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.
49.	Firefighting equipment, such as fire extinguishers, must be located on-site and personnel must be aware of fire prevention and firefighting measures.	C	Fire extinguishers are provided at various locations on site. The site is furthermore equipped with fire water reticulation system. Personnel take advance firefighting training takes place.  <i>Evidence:</i> <ul style="list-style-type: none"> <li>Verbal confirmation</li> <li>Onsite observation</li> </ul>	None.
50.	The applicant must ensure that there is no interference with the existing municipal infrastructure during construction.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.



Ref	Condition	Compliance Status	Findings	Recommendations
51.	No exotic plants may be used for rehabilitation purposes. Only indigenous plants of the area may be utilised.	C	Upon completion of the construction phase, the site was rehabilitated using Berea grass.  <i>Evidence:</i> <ul style="list-style-type: none"> <li>Onsite observation</li> </ul>	None.
52.	Vegetation clearing must be kept to an absolute minimum. Mitigation measures must be implemented to reduce the risk of erosion and the invasion alien species.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.
53.	Construction must include appropriate design measures that allow surface and subsurface movement of water along drainage lines so as not to impede natural surface and subsurface flow. Drainage measures must promote the dissipation of storm water runoff.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.
54.	Erosion and loss of soil must be prevented by minimising the construction site exposed to surface water runoff. Where necessary, erosion stabilising actions such as gabions or re-vegetation must be implemented to prevent further habitat deterioration.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.
<b>General</b>				
55.	A copy of the authorisation and the approved EMPr must be kept at the property where the activity/ies will be undertaken. The authorisation and approved EMPr must be produced to any authorised official of the Department who requests to see it and must be made available for inspection by any employee or	C	A copy of the authorisation and the approved EMPr are available at the SGEPP site.  <i>Evidence:</i> <ul style="list-style-type: none"> <li>Copies of EA and EMPr provided upon request.</li> </ul>	None.



Ref	Condition	Compliance Status	Findings	Recommendations
	agent of the holder of the authorisation who works or undertakes works at the property.			
56.	Where any of the applicant's contact details change, including the name of the responsible person, the physical or postal address and/or telephonic details, the applicant must notify the Department as soon as the new details become known to the applicant.	C	<p>The Department has been notified of any changes of the contact person of the authorisation through the amendment process. The contact person is aware of the EA conditions.</p> <p><i>Evidence:</i></p> <ul style="list-style-type: none"> <li>▪ Verbal Communication</li> <li>▪ Amendment to the EA (10 June 2013)</li> <li>▪ Amendment to the EA (09 December 2014)</li> <li>▪ Amendment to the EA (06 February 2018)</li> </ul>	None.
57.	The holder of the authorisation must notify the Department, in writing and within 48 (forty-eight) hours, if any condition must be accompanied by reasons for the non-compliance. Non-compliance with a condition of this authorisation may result in criminal prosecution or other actions provided for in the National Environmental Management Act, 1998 and the regulations.	N/A	The holder of authorisation and the auditor has noted these conditions.	None.
58.	National government, provincial government, local authorities or committees appointed in terms of the conditions of this authorisation or any other public authority shall not be held responsible for any damages or losses suffered by the applicant or his successor in title in any instance where construction or operation subsequent to construction be temporarily or permanently stopped for reasons of non-compliance by the applicant with the	N/A	The holder of authorisation and the auditor has noted these conditions.	None.



Ref	Condition	Compliance Status	Findings	Recommendations
	conditions of authorisations as set out in this document or any other subsequent document emanating from these conditions of authorisation.			



## 4.2 ENVIRONMENTAL MANAGEMENT PROGRAMME

Table 4-2 below provides the compliance of Sasol with the mitigation of the Scoping Report for the construction of two HCl storage tanks at the Sasol Polymers, dated April 2004.

Table 4-2 – EMPr Audit Findings

Ref	Condition	Compliance Status	Findings	Recommendations	Measures Implemented to Address Non-Compliance	Practicality of the EMPr Commitments	Is the Non-Compliance Administrative or will it have an impact	Historical/New Non-Compliance (Administrative measures)
<b>Laydown area and site access</b>								
	The temporary laydown area must be hard standing in the form of compacted gravel. Ensure pollution prevention measures are implemented.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited. The current laydown is for scaffolding that is used for maintenance purposes. The area is paved, and no pollution is expected to occur.	None.	N/A	N/A	N/A	N/A
	The area to be disturbed by construction activities and access road is to be kept to a minimum, sufficient to carry out the necessary activities.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	Excavation of the proposed site must not include cut and fill activities. Instead G5 material (high alumina	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not	None.	N/A	N/A	N/A	N/A

THE DEVELOPMENT OF A GAS ENGINE POWER PLANT ON A SITE ADJACENT TO THE EXISTING STEAM STATION TWO SITE IN SASOLBURG  
FREE STATE ENVIRONMENTAL AUTHORISATION (REF. NO: 12/12/20/2001) AND ENVIRONMENTAL MANAGEMENT PROGRAMME AUDIT



Ref	Condition	Compliance Status	Findings	Recommendations	Measures Implemented to Address Non-Compliance	Practicality of the EMPR Commitments	Is the Non-Compliance Administrative or will it have an impact	Historical/New Non-Compliance (Administrative measures)
	cement) must be imported in which to replace any removed unsuitable material (e.g. expansive clay) as well as to construct GEPP platform and access road.		the operational phase, therefore it was not audited. Ad hoc excavations are based on maintenance requirements. There are none at the time of the audit.					
	The newly constructed access road must be adequately maintained so as to minimise dust, erosion or undue surface damage.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.  The access road is currently paved and no dust is generated and erosion is not expected as a result.	None.	N/A	N/A	N/A	N/A
	A security officer must be on duty at the lay GEPP site for 24 hours and over weekends, in order to prevent unauthorised access and tampering with equipment and material. A sign-in register and a complaints register must be placed at the security gate.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.  Access is remains controlled for the operational phase.	None.	N/A	N/A	N/A	N/A
	The EMS: Reporting, investigating and recording of environmental incidents procedure reference number	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not	None.	N/A	N/A	N/A	N/A

THE DEVELOPMENT OF A GAS ENGINE POWER PLANT ON A SITE ADJACENT TO THE EXISTING STEAM STATION TWO SITE IN SASOLBURG  
FREE STATE ENVIRONMENTAL AUTHORISATION (REF. NO: 12/12/20/2001) AND ENVIRONMENTAL MANAGEMENT PROGRAMME AUDIT



Ref	Condition	Compliance Status	Findings	Recommendations	Measures Implemented to Address Non-Compliance	Practicality of the EMPR Commitments	Is the Non-Compliance Administrative or will it have an impact	Historical/New Non-Compliance (Administrative measures)
	SSP-S-013 must be implemented and adhered to for the GEPP.		the operational phase, therefore it was not audited.					
	In case where facilities are linked to existing municipal structure e.g. water provision, all necessary regulatory requirements concerning construction and maintenance must be adhered to.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	Health and/or safety hazards on site must be clearly marked.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	No fires permitted on site.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	Firefighting equipment such as fire extinguishers must be located on site and personnel must be made aware of fire prevention and firefighting measures. Firefighting	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A

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Ref	Condition	Compliance Status	Findings	Recommendations	Measures Implemented to Address Non-Compliance	Practicality of the EMPR Commitments	Is the Non-Compliance Administrative or will it have an impact	Historical/New Non-Compliance (Administrative measures)
	equipment must be securely placed and inspected monthly.							
	Temporary ablation facilities must be regularly maintained. Records of maintenance must be retained on site. It is recommended that the ratio 20:1 on-site personnel to ablation facilities is not exceeded.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	The liberation of dust into the surrounding environment must effectively be controlled by the use of water spraying and/or other dust-allaying agent. The speed of vehicles must be strictly controlled to avoid dangerous conditions, excessive dust or excessive deterioration of the roads utilised.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	Cement mixing must take place in a designated area, on an impermeable surface where the run-off can be appropriately contained, and within the laydown area. Areas where mixing occurs must be cleaned up after use. Cement mixing must be	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A

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	controlled and measured according to activity requirements to prevent waste. No cement mixing is to occur outside the abovementioned designated area.							
	Fuel and chemical management for storage, handling and spillage must be undertaken in accordance with Section 4: Fuel and chemical management.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	Surface and groundwater impacts must be managed as per Section 7: Water Management.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	Air quality impacts must be managed as per Section 8: Air Quality.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	On completion of all operations, the areas must be	N/A	This condition is outside the audit period and refers to a	None.	N/A	N/A	N/A	N/A

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	rehabilitated as per Section 15: Rehabilitation		requirement during the closure phase and not the operational phase, therefore it was not audited.					
	Photographs of the site, at the selected fixed points are to be taken on a regular basis to provide a development record.	N/A	This condition is outside the audit period and refers to a requirement during the closure phase and not the operational phase, therefore it was not audited.	N/A	N/A	N/A	N/A	N/A
	Services (including water, electricity and sewage) must be appropriately disconnected during demolitions.	N/A	This condition is outside the audit period and refers to a requirement during the closure phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
<b>Vehicle Management</b>								
	The maintenance of vehicles and equipment used for any purpose during construction phase will be the responsibility of the contractors.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	Equipment and vehicles must be adequately maintained so as to reduce the possibility for spillages of oil, diesel, fuel, or	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not	None.	N/A	N/A	N/A	N/A

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	hydraulic fluid, as well as to ensure road worthiness.		the operational phase, therefore it was not audited.					
	Vehicles transporting large loads must be secured before entering the local road network.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	Increased visibility of heavy vehicles to be implemented by utilising sufficient reflectors and active headlights during operation.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	Machinery or plant equipment used on-site must not constitute a pollution hazard. The contractor must order any equipment to be repaired or withdrawn from use if evident that it is not operating optimally. The contractor shall inspect all construction vehicles and plants on a weekly basis for defects (indicator lights, oil leaks, etc) and excessive emissions.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	Fuel and chemical management for storage, handling and spillages must	N/A	This condition is outside the audit period and refers to a requirement during the	None.	N/A	N/A	N/A	N/A

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	be undertaken in accordance with Section 4: Fuel and Chemical Management.		construction phase and not the operational phase, therefore it was not audited.					
	Air Quality must be managed as per Section 8: Air Quality.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	On completion of all operations, the areas must be rehabilitated as per Section 15: Rehabilitation.	N/A	This condition is outside the audit period and refers to a requirement during the rehabilitation phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	The EMS: Waste Management Procedure reference number SSP-S-014 must be implemented and adhered to for the GEPP.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	The EMS: Reporting, investigating and recording of environmental incidents procedure reference number SSP-S-013 must be implemented and adhered to for the GEPP.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
<b>Fuel and Chemical Management</b>								

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	The area chosen for the purpose of fuel and chemical management must be the minimum required. Topsoil must be handled as described in Section 6: Spoil and Topsoil Management.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	The location of the fuel and chemical storage area(s) is to be indicated on the layout plans determined by the contractor.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	The storage areas, accommodating hazardous substances such as fuel, oils and chemicals, must be securely fenced (under lock and key). The storage area floor must be stored on an impermeable surface and suitably bunded to retain 110% of all the container volumes.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	In the event that oil traps or interceptors need to be used, maintenance should be undertaken on a regular basis and records maintained.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A

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	All liquids stored on-site are to be labelled and identifiable. Material safety data sheets (MSDS) for on-site chemicals, hydrocarbon materials and/or waste and hazardous substances must be readily available. MSDS must include mitigation measures to ameliorate against any potential environmental impacts which may result from a spill, incorporating health and safety mitigation measures.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	The hazardous chemical containment facilities, such as the bunded areas must be well maintained in order to ensure integrity.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	Fuels, lube oils or other chemicals used outside of the bunded area should be kept to a minimum and suitable secondary containment in the form of drip trays should be used.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A



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	Fuel and chemical management for storage, handling and spillages must be undertaken in accordance with Section 7 Water Management.	C	Spill response plan is in place for potential contamination.  <i>Evidence:</i> <ul style="list-style-type: none"> <li>Verbal communication.</li> <li>Sasol to provide SSP-S 013.</li> </ul>	None.	N/A	N/A	N/A	N/A
	The EMS: Waste Management Procedure reference number SSP-S-014 must be implemented and adhered to for the GEPP.	C	Sasol has implemented the Waste Management Procedure reference number SSP-S-014 procedure for removal of waste.  <i>Evidence:</i> <ul style="list-style-type: none"> <li>Verbal Communication</li> <li>Procedure for the management of waste on the Sasolburg Operations Sites (document number SSP-S-014, 01 August 2022)</li> </ul>	None.	N/A	N/A	N/A	N/A
	The EMS: Reporting investigating and recording of environmental incident procedure reference number SSP - S - 013 must be implemented and adhered to for the GEPP.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A

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	“No smoking” and “no naked flame” signs must be displayed in and around the construction area, as well as placed near the hazardous material store.	N/A	While SGEPP has visible “no smoking” signages and designated smoking areas, this condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	Fire extinguishers, of the correct type, must be strategically placed on-site and near the hazardous material store. Key personnel must be trained in basic firefighting skills, e.g. DEO and the appointed safety officer.	C	Fire extinguishers are provided at various locations on site.  <i>Evidence:</i> <ul style="list-style-type: none"> <li>Visually observed on site</li> </ul>	None.	N/A	N/A	N/A	N/A
	These containment facilities should be frequently inspected and maintained.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	In the event of rain, water collected within these containment facilities can be released if not contaminated. If the contents of containment facilities are contaminated the	C	The SGEPP is located within a concrete bund with a clean and contaminated stormwater management system and an emergency response control plan in place. The site has an	None.	N/A	N/A	N/A	N/A

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	material should be removed and disposed of as hazardous waste as per the waste management procedure.		<p>onsite water management system to control clean stormwater, and a water treatment management system to control and manage contaminated stormwater or effluent.</p> <p><i>Evidence:</i></p> <ul style="list-style-type: none"> <li>▪ Verbal Confirmation</li> <li>▪ Onsite observation</li> <li>▪ Procedure for the management of waste on the Sasolburg Operations Sites (document number SSP-S-014, 01 August 2022)</li> <li>▪ IWWMP (report number: SO-env-1075, December 2022)</li> </ul>					
<b>Waste Management</b>								
	Ensure toolbox talks are provided for on-site employees on waste minimisation, management and correct disposal.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A



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	Littering, burying and burning of waste is prohibited on the construction site.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	An adequate number of general waste receptacles must be arranged around the construction site and the laydown area to minimise littering. These receptacles will be removed from the sites on a regular basis for disposal so as to prevent any windblown waste and/or visual disturbance. The general waste will be sent to a registered or licensed disposal facility.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	The waste soil stockpiles on-site must be disposed of at a registered or licensed disposal facility.	C	<p>All waste soil stockpile has been removed to a licenced disposal facility. There are no waste soils on site.</p> <p><i>Evidence:</i></p> <ul style="list-style-type: none"> <li>■ Verbal Confirmation</li> <li>■ Onsite observation</li> </ul>	None.	N/A	N/A	N/A	N/A

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			<ul style="list-style-type: none"> <li>On site waste manifest observation.</li> </ul>					
	Bins should be clearly labelled and lined for efficient control and safe disposal of waste.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	No general waste is to be disposed of at the spoil stockpile area.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	General waste is not to be mixed or combined with hazardous waste designated for disposal at the municipal landfill site.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	Reduce, re-use and recycle all waste types wherever possible.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	The EMS: Waste Management Procedure reference number SSP-S-014	C	Sasol has implemented the Waste Management Procedure reference number					

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	must be implemented and adhered to for the GEPP Ensure minimisation of waste.		SSP-S-014 procedure for removal of waste.  <i>Evidence:</i> <ul style="list-style-type: none"> <li>■ Verbal Communication</li> <li>■ Procedure for the management of waste on the Sasolburg Operations Sites (document number SSP-S-014, 01 August 2022)</li> </ul>					
	Hazardous waste generated on-site may include: <ul style="list-style-type: none"> <li>• Oil and other lubricants, diesel, paints, solvent;</li> <li>• Containers that contain chemicals, lube oils and greases;</li> <li>• Industrial degreasers;</li> <li>• Propane;</li> <li>• Equipment, steel, other material (rags), soils and water contaminated by hazardous</li> </ul>	N/A	The authorisation and the auditor has noted this condition.	None.	N/A	N/A	N/A	N/A



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	substances (oil, fuel, grease or chemicals).							
	Hazardous waste must be disposed using techniques appropriate to the situation as per the waste management procedure and/or agreement with the waste disposal contractor. Alternatives such as remediation techniques must be investigated prior to disposal at a permitted hazardous waste landfill site.	C	<p>Hazardous waste is separated and contained for disposal at a licenced facility. Interserve is the service provider that collects hazardous waste.</p> <p><i>Evidence:</i></p> <ul style="list-style-type: none"> <li>▪ Verbal Confirmation</li> <li>▪ Onsite observation</li> <li>▪ On site waste manifest observation.</li> </ul>	None.	N/A	N/A	N/A	N/A
	All used oils (i.e. contaminated and degraded as a result of its usage) must either be sold or recycled to be reused.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	Hazardous waste bins must be clearly marked, colour coded and covered with a lid.	C	Hazardous waste is separated and contained for disposal at a licenced facility. Interserve is the service	None.	N/A	N/A	N/A	N/A



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			<p>provider that collects hazardous waste.</p> <p><i>Evidence:</i></p> <ul style="list-style-type: none"> <li>▪ Verbal Confirmation</li> <li>▪ Onsite observation</li> <li>▪ On site waste manifest observation.</li> </ul>					
	No hazardous waste is to be disposed of within the spoil stockpile areas.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	Should hazardous waste be found in a general waste receptacle, the entire receptacle will be classed as hazardous. There will be no separation of general and hazardous waste once mixed.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	A hazardous waste disposal certificate must be obtained from the waste removal company as evidence of correct disposal.	C	Hazardous waste is separated and contained for disposal at a licenced facility. Interserve is the service provider that collects hazardous waste.	None.	N/A	N/A	N/A	N/AN

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			<i>Evidence:</i> <ul style="list-style-type: none"> <li>▪ Verbal Confirmation</li> <li>▪ Onsite observation</li> <li>▪ On site waste manifest observation.</li> </ul>					
	Areas where concrete mixing has occurred must be appropriately cleaned up and the cement waste disposed of as a hazardous material.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	Hazardous waste to be transported to a central point for collection by the waste disposal company should be managed accordingly. The on-site personnel must be cognisant of following: <ul style="list-style-type: none"> <li>• Transport of hazardous materials must be done in accordance with applicable legislative controls;</li> <li>• The requirements for a waste management license as per the National</li> </ul>	C	Hazardous waste is separated and contained for disposal at a licenced facility. Interserve is the service provider that collects hazardous waste.  <i>Evidence:</i> <ul style="list-style-type: none"> <li>▪ Verbal Confirmation</li> <li>▪ Onsite observation</li> <li>▪ On site waste manifest observation.</li> </ul>	None.	N/A	N/A	N/A	N/A

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	<p>Environmental Management Waste Act (No. 59 of 2008) for temporary storage of waste (including waste transfer facilities) must be adhered to, if applicable;</p> <ul style="list-style-type: none"> <li>• Relevant SANS Codes of Practice should be adhered to; and</li> <li>• Hazardous waste should not be stored on-site for more than 90 days. Were applicable the most stringent code of practice must be complied with.</li> </ul>							
	<p>In the case of a spill of hydrocarbons or chemicals on the construction site or laydown area, the spill, together with contaminated soil, should be contained. Hazardous material should be managed as per the waste management procedure.</p>	<b>C</b>	<p>Hazardous waste is separated and contained for disposal at a licenced facility. Interserve is the service provider that collects hazardous waste.</p> <p><i>Evidence:</i></p>	None.	N/A	N/A	N/A	N/A

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			<ul style="list-style-type: none"> <li>Verbal Confirmation</li> <li>Onsite observation</li> <li>On site waste manifest observation.</li> </ul>					
	Key personnel must be trained on handling spillages.	C	Spill kits are available on site and personnel are trained on how to use them.  <i>Evidence:</i> <ul style="list-style-type: none"> <li>Verbal Confirmation</li> <li>Onsite observation</li> </ul>					
	All spillages or incidents should be managed according to Section 14: Emergency Procedures.	C	Spill response plan is in place for potential contamination.  <i>Evidence:</i> <ul style="list-style-type: none"> <li>Verbal communication. Sasol to provide SSP-S 013.</li> </ul>	None.	N/A	N/A	N/A	N/A
<b>Soil and Topsoil management</b>								
	The minimum surface area possible should be chosen for transformation by civil and earth works.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not	None.	N/A	N/A	N/A	N/A



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			the operational phase, therefore it was not audited.					
	Unusable spoil material (expansive clays) must be removed to an on-site location for site remediation and the excavated area should be replaced with imported G5 material.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	Unusable spoil material (expansive clays) must be removed to an on-site location for site remediation and the excavated area should be replaced with imported G5 material.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	The top 150mm of the in situ (biologically active zone) shall be removed temporarily stockpile and protected for rehabilitation purposes following construction.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	Cleared soil beyond 300 mm in the soil horizon, must be stored separately from the topsoil and shall be used later in rehabilitation following construction.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A

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	Spoil sites must receive a minimum of 75mm topsoil and be grassed with the recommended seed mixture as per Section 15: Rehabilitation if suitable.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	Slopes must not exceed a height of 2m.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	Topsoil must be kept separate from overburden and must not be used for building or maintenance of access roads.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	Avoid topsoil stripping and handling in windy or excessive rainy conditions.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	Litter and general waste is to be removed from the soil before stockpiling.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A

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	Erosion and loss of soil must be prevented by minimising the construction site exposed to surface water run-off. Where necessary, erosion stabilising actions, such as gabions or re-vegetation must be implemented to prevent further habitat deterioration.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	Any erosion channels which develop during the construction period must be suitably filled compacted and restored to as natural a state as possible.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
<b>Water Management</b>								
	All construction activities are to be undertaken from a designated contractor lay-down area on the construction site, which must be clearly demarcated on the site plans.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	Clean storm water can be allowed to follow the natural flow off-site into the receiving environment.	C	The SGEPP is located within a concrete bund with a clean and contaminated stormwater management system and an emergency response control	None.	N/A	N/A	N/A	N/A



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			<p>plan in place at the Sasol One site.</p> <p><i>Evidence:</i></p> <ul style="list-style-type: none"> <li>Verbal Confirmation</li> <li>Onsite observation</li> </ul>					
	The oily water from Phase 1 and 2 (intermittent stream) must be routed to the oil-water separator (lube oil tank) on-site.	<b>C</b>	<p>Oily water is routed to the oil-water separator on site. The scope of work for phase 2 has been changed through the amendment process from generation of electricity to generation of steam.</p> <p><i>Evidence:</i></p> <ul style="list-style-type: none"> <li>Verbal Confirmation</li> <li>Onsite observation</li> <li>Amendment to the EA (10 June 2013)</li> </ul>	None.	N/A	N/A	N/A	N/A
	The lube oil tank, separation pond and spent oil tank on-site must be suitably bunded and the storage area floor made from an impervious surface. The bund will retain 110% of all the container volumes and tank capacity of	<b>C</b>	<p>The lube oil tank, separation pond and spent oil tank on-site is bunded and the storage area floor made from an impervious surface.</p> <p><i>Evidence:</i></p> <ul style="list-style-type: none"> <li>Verbal Confirmation</li> </ul>	None.	N/A	N/A	N/A	N/A

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	the largest tank including a 1 in 100-year flood.		<ul style="list-style-type: none"> <li>Onsite observation</li> </ul>					
	The bundwall must be continually inspected and maintained together with on-site records as proof.	<b>C</b>	<p>Bund wall is continuously inspected and maintained as and when required.</p> <p><i>Evidence:</i></p> <ul style="list-style-type: none"> <li>Verbal Confirmation</li> <li>Onsite observation of maintenance records.</li> </ul>					
	The oil from the oil-water separator must be skimmed off and recovered in the spent oil tank on-site. This must be undertaken once the oil-water separator has reached 75% tank capacity.	<b>N/A</b>	No oil is skimmed off and recovered at SGEPP. Oily water is collected in the Sludge tank and transported via tanker to the Sasol One effluent handling system	It is recommended that an amendment application to realign this condition to the SGEPP operation be lodge.	Amend the condition to realign with the SGEPP operations.	Practical.	Administrative.	N/A
	Unsuitable water must be routed to a tie-in point at Steam Station Two for disposal at the oily water sewer.	<b>C</b>	<p>Contaminated water is routed to Steam Station 2 for disposal.</p> <p><i>Evidence:</i></p> <ul style="list-style-type: none"> <li>Verbal Confirmation</li> </ul>	None.	N/A	N/A	N/A	N/A
	Monitoring of water volumes taken from the municipality must be undertaken on a	<b>C</b>	Monitoring of water volumes taken from the municipality is	None.	N/A	N/A	N/A	N/A

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	regular basis that will be utilised for Phase 2.		<p>conducted month records of monitoring are kept on site.</p> <p>Evidence:</p> <ul style="list-style-type: none"> <li>FY24 Potable Use Patterns graphs.</li> </ul>					
	All chemicals and other hazardous materials are to be stored in designated and bunded areas, where the bunded area is impermeable and is impervious to the stored substance. The bunded area must also be able to contain 11 0% volume of the largest container stored.	<b>C</b>	<p>Hazardous waste is contained at a designated area that is bunded.</p> <p>Evidence:</p> <ul style="list-style-type: none"> <li>Onsite observation</li> </ul>	None.	N/A	N/A	N/A	N/A
	The EMS: Reporting, investigating and recording of environmental incidents procedure reference number SSP-S-013 must be implemented and adhered to for the GEPP.	<b>C</b>	<p>Incidents are captured using the SAP system. No incidents were recorded during the audit period.</p> <p>Evidence:</p> <ul style="list-style-type: none"> <li>Onsite observation of the SAP incident register.</li> </ul>	None.	N/A	N/A	N/A	N/A
	During construction, washing of vehicles, equipment,	<b>N/A</b>	This condition is outside the audit period and refers to a	None.	N/A	N/A	N/A	N/A

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	machines or materials must be undertaken at an off-site maintenance yard.		requirement during the construction phase and not the operational phase, therefore it was not audited.					
	All effluent handling is to be undertaken in accordance with Standard Operating Procedures and the associated MSDS for hazardous material (where applicable).	<b>C</b>	<p>All effluent handling is to be undertaken in accordance with Standard Operating Procedures.</p> <p><i>Evidence:</i></p> <ul style="list-style-type: none"> <li>■ IWWMP' - Integrated Water and Waste Management Plan (IWWMP), Storm Water Management Plan (SWMP), Rehabilitation Strategy and Implementation Plan (RSIP), Water Conservation and Demand Management (WC/DM) Ref: SO-env-929 DWA file number 27/2/2/C222/6/4.</li> <li>■ Verbal Confirmation</li> <li>■ Onsite observation</li> </ul>	None.	N/A	N/A	N/A	N/A
	Any spillages constituting a risk to surface, and groundwater must be handled	<b>N/A</b>	This condition is outside the audit period and refers to a requirement during the construction phase and not	None.	None.	None.		

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	as per Section 4 Fuel and Chemical Management.		the operational phase, therefore it was not audited.					
	The EMS: Spillage and Incidents Procedure reference number SSP-S-013 must be implemented and adhered to for the GEPP.	<b>C</b>	Spillage and Incidents Procedure are conducted according to Document SSP-S-013.  <i>Evidence:</i> <ul style="list-style-type: none"> <li>Verbal confirmation</li> </ul>	None	N/A	N/A	N/A	N/A
<b>Air Quality</b>								
	Areas of exposed soil (e.g. stockpiles, construction camp) may become sources of wind generated dust and dust suppression techniques must be implemented when/as necessary.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	Newly constructed access roads must be adequately maintained so as to minimise dust, erosion or undue surface damage.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	Dust entrained from vehicular movement must be mitigated by road wetting and by implementing speed limits.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not	None.	N/A	N/A	N/A	N/A



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			the operational phase, therefore it was not audited.					
	Construction vehicles bearing open loads of potentially windborne materials should be covered or wet down in order to minimise dust entrainment.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	Vehicles and machinery/equipment must be adequately maintained so as to prevent becoming the cause of excessive fumes.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None	N/A	N/A	N/A	N/A
	No burning of waste (such as plastic bags, cement bags and litter) or vegetation is permitted on-site.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	CO, PM <sub>10</sub> and NO <sub>2</sub> should be operated in accordance with their design specification and all maintenance and repair operation requirements must be maintained in order to ensure optimum performance and minimal emissions.	C	All air quality monitoring done in accordance with AEL conditions.  Emissions monitoring protocol is established and implemented.  <i>Evidence:</i>	None.	N/A	N/A	N/A	N/A

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			<ul style="list-style-type: none"> <li>Air Emissions Licence (AEL) (reference number: FDDM-MET-2013-24-R1)</li> </ul>					
	Annual Air quality stack monitoring and modelling must be initiated for the GEPP to verify the emissions from the process at the start of commissioning at least once a year. The air quality monitoring and modelling must also continue as part of the Sasol air quality monitoring programme.	C	<p>All air quality monitoring done in accordance with AEL conditions.</p> <p>Emissions monitoring protocol is established and implemented.</p> <p><i>Evidence:</i></p> <ul style="list-style-type: none"> <li>Air Emissions Licence (AEL) (reference number: FDDM-MET-2013-24-R1)</li> </ul>	None.	N/A	N/A	N/A	N/A
	Sasol's complaints register must be provided to report any excessive dust incidents.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
<b>Noise</b>								
	Once the SGEPP is operations, a boundary noise survey to be undertaken to confirm that any areas in close proximity to sensitive receptors are not subjected to levels of noise above the	C	Noise surveys are conducted every two years. Any areas in close proximity to sensitive receptors are not subjected to levels of noise above the typical rating levels provided in SANS 10103:2008. Areas	None.	N/A	N/A	N/A	N/A

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	typical rating levels provided in SANS 10103:2008 or alternatively, levels which have caused a significant upward shift in noise levels from the baseline condition (e.g. those measured in previous surveys).		<p>of that are subjected to high levels above acceptable standard require double hearing protection and are enclosed by walls to decrease the noise levels.</p> <p><i>Evidence:</i></p> <ul style="list-style-type: none"> <li>Onsite observation</li> <li>Environmental Noise Survey for Sasol Sasolburg, Steam Station 2, SGEPP, Sasol One, Midlands &amp; Bunsen Area (2019)</li> </ul>					
	All operations should meet the noise standard requirements of the Occupational Health and Safety Act (No. 85 of 1993) as well as adhere to the EMS: Occupational Health and Safety procedures for Sasol.	<b>C</b>	The Noise survey (document) indicated Day time measurement results for the twenty-one (21) measurement points, indicated that the noise level at one (1) of the measurement positions exceeded the typical day-time noise rating level of 70 dB (A) due to its close proximity to noise sources, such as steam turbulence	Management should consider the installation of silencers on Steam Line exhausts to decrease the high level of noise that is produced around the various plants.	N/A	N/A	N/A	N/A

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			<p>and expansion loop steam exhausts.</p> <p>Nighttime measurement results at the twenty-one (21) measurement points indicated that all of the night-time noise measurement levels exceeded the typical night-time noise rating level of 60 dB (A), due to noise from the Steam pipe expansion loop exhausts at Steam Station 2, and turbulent steam flow in the bends of expansion loops at Steam Station 2.</p> <p>As a result, double hearing protection is required at SGEPP.</p> <p><i>Evidence:</i></p> <ul style="list-style-type: none"> <li>▪ Onsite observation</li> <li>▪ Environmental Noise Survey for Sasol Sasolburg, Steam Station 2, SGEPP, Sasol One,</li> </ul>					

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			Midlands & Bunsen Area (2019)					
	Occupational noise monitoring should be undertaken immediately after commissioning, in order to ensure that employee exposures are adequately assessed and mitigation measures for hearing protection are provided.	C	Noise levels are conducted every two years and employees are given double hearing protection for use when in close proximity of areas that have noise level above the required standards.  <i>Evidence:</i> <ul style="list-style-type: none"> <li>▪ Onsite observation</li> <li>▪ Environmental Noise Survey for Sasol Sasolburg, Steam Station 2, SGEPP, Sasol One, Midlands &amp; Bunsen Area (2019)</li> </ul>	None.	N/A	N/A	N/A	N/A
	Construction vehicles and equipment generating excessive noise should be fitted with appropriate noise abatement measures.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	Sasol's Complaints procedure should be used to report any excessive noise and to	C	Noise complaints are captured using the SAP system. No noise complaints	None.	N/A	N/A	N/A	N/A

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	monitor complaints regarding noise.		<p>have been recorded during the audit period.</p> <p><i>Evidence:</i></p> <ul style="list-style-type: none"> <li>Onsite observation of the SAP incident register.</li> </ul>					
	All areas where incidents occurred must be handled and the incident closed out in accordance with the EMS: Reporting, Investigating and Recording Environmental Incidents procedure reference number SSP-S-013.	C	<p>Incidents are captured using the SAP system. No incidents were recorded during the audit period. <i>Evidence:</i></p> <ul style="list-style-type: none"> <li>Onsite observation of the SAP incident register.</li> </ul>	None.	N/A	N/A	N/A	N/A
	Options for demolition methods should be considered in terms of noise impacts. For example, manual demolition (people using pneumatic jackhammers) generates more noise, over a far prolonged period than, say, demolition by means of building implosion (using explosives).	N/A	<p>This condition is outside the audit period and refers to a requirement during the decommissioning phase and not the operational phase, therefore it was not audited.</p>	None.	N/A	N/A	N/A	N/A
	All demolition activities should meet the noise standard requirements of the	N/A	<p>This condition is outside the audit period and refers to a requirement during the</p>	None.	N/A	N/A	N/A	N/A

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	Occupational Health and Safety Act (No. 85 of 1 993).		decommissioning phase and not the operational phase, therefore it was not audited.					
<b>Fauna and Flora</b>								
	If rare or protected plant species are found on-site, a permit needs to be acquired for their relocation. The South African National Biodiversity Institute must be approached in order to give input and assist with the relocation.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	Topsoil must be used for rehabilitation purposes. However, topsoil that is potentially contaminated with the seed of alien invader plants will not be permitted.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	N/A	N/A	N/A	N/A	N/A
	Weeds, alien and invasive vegetation must be removed should ingress occur.	C	Weeds and invasive plants are removed by Metsimaholo.  <i>Evidence:</i> <ul style="list-style-type: none"> <li>▪ Verbal communication</li> </ul>	None.	N/A	N/A	N/A	N/A
	All areas where incidents and spillages occurred must be handled, rehabilitated and the incident closed out in accordance with the EMS:	C	No spillages have been recorded for the audit period. Spill response plan is in place for potential contamination.	None.	N/A	N/A	N/A	N/A

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	Reporting, Investigating and Recording Environmental incidents procedure reference number SSP-S- 013.		<i>Evidence:</i> <ul style="list-style-type: none"> <li>Verbal communication.</li> <li>Sasol to provide SSP-S 013.</li> </ul>					
	Should rare or endangered fauna species be encountered [e.g. White-tailed mouse ( <i>Mystromys albicaudatus</i> )] during the construction phase, these are to be reported to the EAP or alternatively the DEO immediately.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	If mammals, birds, reptiles or amphibians are encountered on-site they must be reported to the municipal environmental offices or local conservation-based NGO immediately.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
<b>Culture and Heritage</b>								
	If an artefact is uncovered on-site, work in the vicinity must be stopped immediately.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	The contractor must take reasonable precautions to prevent any person from	N/A	This condition is outside the audit period and refers to a requirement during the	None.	N/A	N/A	N/A	N/A

THE DEVELOPMENT OF A GAS ENGINE POWER PLANT ON A SITE ADJACENT TO THE EXISTING STEAM STATION TWO SITE IN SASOLBURG  
 FREE STATE ENVIRONMENTAL AUTHORISATION (REF. NO: 12/12/20/2001) AND ENVIRONMENTAL MANAGEMENT PROGRAMME AUDIT



Ref	Condition	Compliance Status	Findings	Recommendations	Measures Implemented to Address Non-Compliance	Practicality of the EMPR Commitments	Is the Non-Compliance Administrative or will it have an impact	Historical/New Non-Compliance (Administrative measures)
	removing or damaging any such articles and must immediately, upon discovery thereof, inform the engineer of the discovery.		construction phase and not the operational phase, therefore it was not audited.					
	SAHRA is to be contacted and will appoint an archaeological consultant.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	Work may only resume, once clearance is given in writing by the archaeological consultant.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	If a grave or midden is uncovered on-site, or discovered before the commencement of work, then all work in the immediate vicinity of the graves/middens must be stopped and the Construction Manager informed of the discovery.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	The SAHRA should be contacted and in the case of graves, arrangements made	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not	None.	N/A	N/A	N/A	N/A

THE DEVELOPMENT OF A GAS ENGINE POWER PLANT ON A SITE ADJACENT TO THE EXISTING STEAM STATION TWO SITE IN SASOLBURG  
 FREE STATE ENVIRONMENTAL AUTHORISATION (REF. NO: 12/12/20/2001) AND ENVIRONMENTAL MANAGEMENT PROGRAMME AUDIT



Ref	Condition	Compliance Status	Findings	Recommendations	Measures Implemented to Address Non-Compliance	Practicality of the EMPR Commitments	Is the Non-Compliance Administrative or will it have an impact	Historical/New Non-Compliance (Administrative measures)
	for an undertaker to carry out exhumation and reburial.		the operational phase, therefore it was not audited.					
	Sasol, together with tine SAHRA will be responsible for attempts to contact family of the deceased and for the site where the exhumed remains can be re-interred.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
<b>Socio-economic</b>								
	Employment is to be undertaken in accordance with Sasol's employment policy and where possible all labour and contractors must be sourced locally within the municipality. No recruitment at the construction site is permitted.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	Principles of BEE, gender equality and non-discrimination must be implemented and where possible.	N/A	Sasol operates under labour law policies..  <i>Evidence:</i> <ul style="list-style-type: none"> <li>Verbal communication.</li> </ul>	None.	N/A	N/A	N/A	N/A
	The labour and recruitment policy must be developed, displayed and implemented by the construction phase contractor.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not	None.	N/A	N/A	N/A	N/A

THE DEVELOPMENT OF A GAS ENGINE POWER PLANT ON A SITE ADJACENT TO THE EXISTING STEAM STATION TWO SITE IN SASOLBURG  
 FREE STATE ENVIRONMENTAL AUTHORISATION (REF. NO: 12/12/20/2001) AND ENVIRONMENTAL MANAGEMENT PROGRAMME AUDIT



Ref	Condition	Compliance Status	Findings	Recommendations	Measures Implemented to Address Non-Compliance	Practicality of the EMPR Commitments	Is the Non-Compliance Administrative or will it have an impact	Historical/New Non-Compliance (Administrative measures)
			the operational phase, therefore it was not audited.					
	All affected landowners/tenants, are to be notified of any disruptions in writing prior to commencement and kept up to date of schedule changes.	N/A	This condition is outside the audit period and refers to a requirement during the pre-construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	Existing complaint procedure should be utilised. The following must be recorded: <ul style="list-style-type: none"> <li>Time, date and nature of complaint;</li> <li>Response and investigation undertaken; and</li> <li>Corrective and preventative actions taken and by whom.</li> </ul>	C	Incidents are captured using the SAP system. No incidents were recorded during the audit period. <i>Evidence:</i> <ul style="list-style-type: none"> <li>Onsite observation of the SAP incident register</li> </ul>	None.	N/A	N/A	N/A	N/A
	Provide proper warning signage to make people aware of the activities within designated areas.	C	Warning signs about the activity and the require PPE are visibly displayed on site. The site is access control.  <i>Evidence:</i>	None.	N/A	N/A	N/A	N/A

THE DEVELOPMENT OF A GAS ENGINE POWER PLANT ON A SITE ADJACENT TO THE EXISTING STEAM STATION TWO SITE IN SASOLBURG  
FREE STATE ENVIRONMENTAL AUTHORISATION (REF. NO: 12/12/20/2001) AND ENVIRONMENTAL MANAGEMENT PROGRAMME AUDIT



Ref	Condition	Compliance Status	Findings	Recommendations	Measures Implemented to Address Non-Compliance	Practicality of the EMPR Commitments	Is the Non-Compliance Administrative or will it have an impact	Historical/New Non-Compliance (Administrative measures)
			<ul style="list-style-type: none"> <li>Onsite observation of the SAP incident register</li> </ul>					
<b>Emergency Procedure Incidents</b>								
	All on-site personnel must wear the appropriate personal protective equipment at all times.	<b>C</b>	<p>The correct PPE is a requirement for anyone entering the site.</p> <p><i>Evidence:</i></p> <ul style="list-style-type: none"> <li>Onsite observation of the SAP incident register</li> </ul>	None.	N/A	N/A	N/A	N/A
	Only appropriately trained staff will be permitted to operate construction equipment / machinery and/or manage site facilities.	<b>N/A</b>	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	In the case of a spill of hydrocarbons, chemicals or bituminous material in the construction camp or on the construction site, the spill, together with contaminated soil, should be contained and treated using the on site spill kit, i.e. absorbent material such as Drizit.	<b>N/A</b>	This condition is outside the audit period and refers to a requirement during the pre-construction phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A



Ref	Condition	Compliance Status	Findings	Recommendations	Measures Implemented to Address Non-Compliance	Practicality of the EMPR Commitments	Is the Non-Compliance Administrative or will it have an impact	Historical/New Non-Compliance (Administrative measures)
	<p>Should a pollution incident occur on-site the following procedures should be undertaken:</p> <ul style="list-style-type: none"> <li>• Notify the DEO of the incident immediately; a Notify Sasol;</li> <li>• Notify all persons whose health may be affected by the incident;</li> <li>• Implement reasonable measures immediately to contain and minimise the impacts of the incident;</li> <li>• Undertake clean up procedures immediately;</li> <li>• Record the incident in the environmental incident register;</li> <li>• Identify measures to remedy the incident including actions to be taken; and</li> <li>• Implement preventative actions</li> </ul>	<b>C</b>	<p>Environmental Incidents are captured using the SAP system. An internal investigation to address and resolve the incident will then be lodge by the Sasol Environmental tea. No incidents were recorded during the audit period.</p> <p><i>Evidence:</i></p> <ul style="list-style-type: none"> <li>▪ Verbal communication</li> <li>▪ Onsite observation of the SAP incident register</li> </ul>	None.	N/A	N/A	N/A	N/A

THE DEVELOPMENT OF A GAS ENGINE POWER PLANT ON A SITE ADJACENT TO THE EXISTING STEAM STATION TWO SITE IN SASOLBURG  
 FREE STATE ENVIRONMENTAL AUTHORISATION (REF. NO: 12/12/20/2001) AND ENVIRONMENTAL MANAGEMENT PROGRAMME AUDIT



Ref	Condition	Compliance Status	Findings	Recommendations	Measures Implemented to Address Non-Compliance	Practicality of the EMPR Commitments	Is the Non-Compliance Administrative or will it have an impact	Historical/New Non-Compliance (Administrative measures)
	in order to prevent similar incidents from occurring in the future.							
	The relevant emergency procedures relevant to particular chemicals used on-site, as per the MSDS and suppliers guidelines, will be followed in the event of an emergency.	<b>C</b>	Spill response plan is in place for potential contamination.  <i>Evidence:</i> <ul style="list-style-type: none"> <li>Verbal communication.</li> <li>Sasol to provide SSP-S 013 and MSDS.</li> </ul>	None.	N/A	N/A	N/A	N/A
<b>Rehabilitation</b>								
	All remaining construction infrastructure, building rubble and waste is to be removed from the site.	<b>N/A</b>	This condition is outside the audit period and refers to a requirement during the rehabilitation phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	All areas disturbed, including the laydown area should be landscaped to ensure efficient drainage.	<b>N/A</b>	This condition is outside the audit period and refers to a requirement during the rehabilitation phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	Surfaces should be inspected for contamination prior to	<b>N/A</b>	This condition is outside the audit period and refers to a	None.	N/A	N/A	N/A	N/A

THE DEVELOPMENT OF A GAS ENGINE POWER PLANT ON A SITE ADJACENT TO THE EXISTING STEAM STATION TWO SITE IN SASOLBURG  
FREE STATE ENVIRONMENTAL AUTHORISATION (REF. NO: 12/12/20/2001) AND ENVIRONMENTAL MANAGEMENT PROGRAMME AUDIT



Ref	Condition	Compliance Status	Findings	Recommendations	Measures Implemented to Address Non-Compliance	Practicality of the EMPR Commitments	Is the Non-Compliance Administrative or will it have an impact	Historical/New Non-Compliance (Administrative measures)
	topsoiling, contaminated soil (to a minimum depth of 30cm) is to be contained and handled as hazardous waste as per the waste management procedure.		requirement during the rehabilitation phase and not the operational phase, therefore it was not audited.					
	Topsoil must be used for rehabilitation purposes. However, topsoil that is potentially contaminated with the seed of alien invader plants will not be permitted.	N/A	This condition is outside the audit period and refers to a requirement during the rehabilitation phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	Weeds, alien and invasive vegetation must be removed should ingress occur.	N/A	This condition is outside the audit period and refers to a requirement during the rehabilitation phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	Any disturbed areas should be ripped to a minimum depth of 30cm to allow organic contaminants to breakdown and promote vegetation establishment.	N/A	This condition is outside the audit period and refers to a requirement during the rehabilitation phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A
	A grass mix should be selected for rehabilitation of disturbed open areas. It is recommended that a mix of quick covering grassed pioneer species mat- forming	N/A	This condition is outside the audit period and refers to a requirement during the rehabilitation phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A

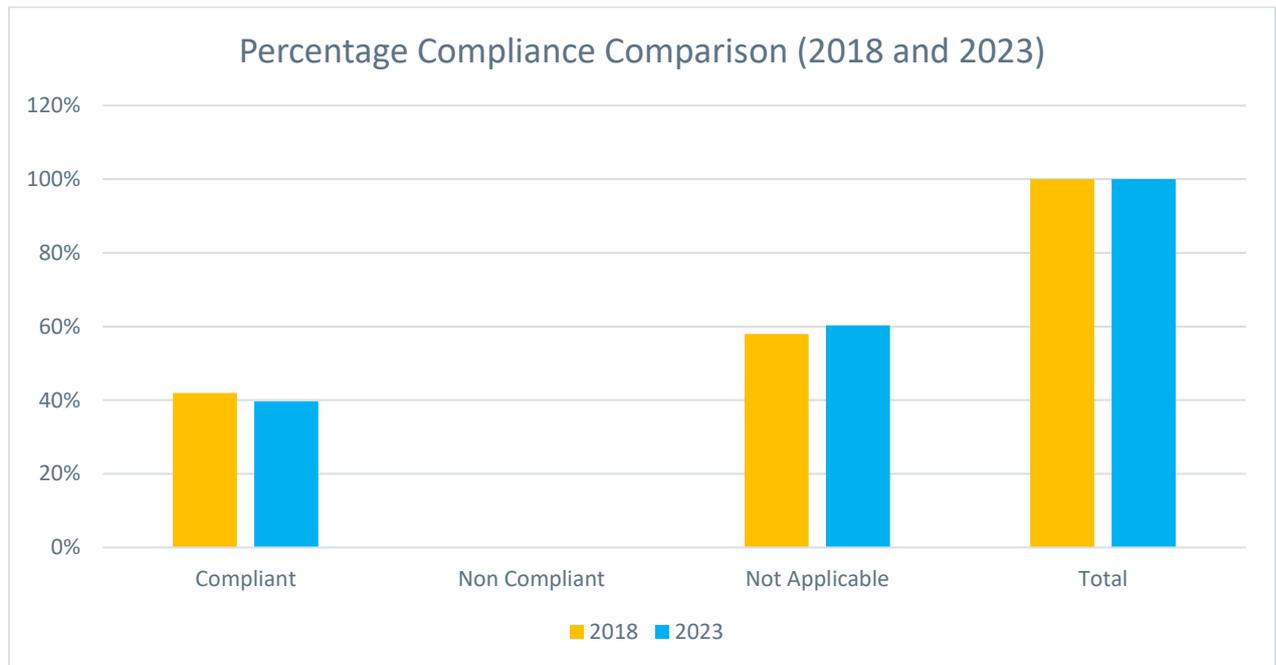
THE DEVELOPMENT OF A GAS ENGINE POWER PLANT ON A SITE ADJACENT TO THE EXISTING STEAM STATION TWO SITE IN SASOLBURG  
 FREE STATE ENVIRONMENTAL AUTHORISATION (REF. NO: 12/12/20/2001) AND ENVIRONMENTAL MANAGEMENT PROGRAMME AUDIT



Ref	Condition	Compliance Status	Findings	Recommendations	Measures Implemented to Address Non-Compliance	Practicality of the EMPR Commitments	Is the Non-Compliance Administrative or will it have an impact	Historical/New Non-Compliance (Administrative measures)
	grasses should be selected (e.g. <i>Cynodon dactylo</i> ) and tufted grasses ( <i>Chloris gayana</i> , <i>Digitaria eriantha</i> and <i>Eragrostis lehmanniana</i> ) to ensure prompt and adequate coverage of the exposed soil whilst also achieving long-term stability.							
	If a reasonable assessment indicates that the re-establishment of vegetation is unacceptably slow, the contractor may require that the soil be analysed and any deleterious effects on the soil arising from the construction be corrected.	N/A	This condition is outside the audit period and refers to a requirement during the rehabilitation phase and not the operational phase, therefore it was not audited.	None.	N/A	N/A	N/A	N/A

## 5 PROGRESS AGAINST PREVIOUS AUDIT FINDINGS

The previous compliance audit report against the consolidated EA and EMPr was compiled by the Northwest University CEM in November 2018. A comparison in the change of compliance rating from the 2018 and 2023 audits are provided in Error! Reference source not found. and **Table 5-1** below, and provides a summary of the audit findings for the previous and current audits (2019 and 2023). The 2018 and 2023 audit identified zero non-compliant conditions.



**Figure 5-1 - Percentage comparison of EMPR compliance levels from 2018 to 2023**

**Table 5-1 – Progress against previous findings**

Ref	Commitment	2018 Status	2018 Finding	2023 Status	2023 Finding
<b>EA Conditions</b>					
<b>1.Scope of authorisation</b>					
6	Any changes to, or deviations from, the project description set out in this authorisation must be approved, in writing, by the Department before such changes or deviations	N/A	Not relevant for the operational phase.	C	The Department has been notified of the change in activity scope through the amendment process. The amendment to the EA was granted on 10 June 2013. <i>Evidence:</i>

Ref	Commitment	2018 Status	2018 Finding	2023 Status	2023 Finding
	may be affected. In assessing whether to grant such approvals or not, the Department may request such information as it deems necessary to evaluate the significance and impacts of such changes or deviations and may be necessary for the holder of the authorisation to apply for further authorisation in terms of the regulations.				<ul style="list-style-type: none"> <li>Amendment to the EA (10 June 2013)</li> </ul>
<b>Monitoring</b>					
20	The provisions of the EMPr are extension of the conditions of the EA and therefore non-compliance with the EMPr would constitute non-compliance with the EIA.	N/A	Not relevant for the operational phase.	C	<p>Impact mitigation listed in the EMPr and EIR reported have been implemented and are audited for compliance externally by and independent auditor.</p> <p><i>Evidence:</i></p> <ul style="list-style-type: none"> <li>External audits if EAs/RODs/EMPr: Gas Power Plant (November 2018)</li> </ul>
<b>EMPr</b>					
<b>Vehicle Movement</b>					
	Waste generated from the EMS: Reporting, investigating and recording of environmental incidents procedure reference number SSP-S-013 must be implemented and adhered to for the GEPP.	C	Compliant.	N/A	This condition is outside the audit period and refers to a requirement during the construction phase and not the operational phase, therefore it was not audited.
<b>Water management</b>					
	The oily water from Phase 1 and 2 (intermittent stream) must be routed to the oil-water separator (lube oil tank) on-site.	C	Could not be confirmed at the time of the audit that the installed infrastructure at the SGEPP correlates with the EMPr. Schematic drawings observed do not correlate with the EMPr description. Sasol has admitted the need to amend the approved	C	Oily water is routed to the oil-water separator on site. The scope of work for phase 2 has been changed through the amendment process from generation of electricity to generation of steam.

Ref	Commitment	2018 Status	2018 Finding	2023 Status	2023 Finding
			EMPr to reflect the practices on the ground. Later confirmed that the system is in place.		<i>Evidence:</i> <ul style="list-style-type: none"> <li>Verbal Confirmation</li> <li>Onsite observation</li> <li>Amendment to the EA (10 June 2013)</li> </ul>
	The oil from the oil-water separator must be skimmed off and recovered in the spent oil tank on-site. This must be undertaken once the oil-water separator has reached 75% tank capacity.	C	Could not be confirmed at the time of the audit that the installed infrastructure at the SGEPP correlates with the EMPr. Schematic drawings observed do not correlate with the EMPr description. Sasol has admitted the need to amend the approved EMPr to reflect the practices on the ground. Later confirmed this is happening on site.	NC	It was not confirmed during the audit whether the oil from the oil-water separator must be skimmed off and recovered in the spent oil tank on-site.
<b>Air Quality</b>					
	An internal SASOL's risk Annual Air quality stack monitoring and modelling must be initiated for the GEPP to verify the emissions from the process at the start of commissioning at least once a year. The air quality monitoring and modelling must also continue as part of the Sasol air quality monitoring programme	NC	Monitoring done. Modelling done once, not done annually as required. Amend the EMPr. Model done in 2015. SGEPP part of a site model in 2016 and 2018 to support section 21 postponement.	C	<p>All air quality monitoring done in accordance with AEL conditions.</p> <p>Emissions monitoring protocol is established and implemented.</p> <p>Monitoring is done every year.</p> <p><i>Evidence:</i></p> <ul style="list-style-type: none"> <li>Air Emissions Licence (AEL) (reference number: FDDM-MET-2013-24-R1)</li> </ul>

## 6 SUMMARY OF THE AUDIT FINDINGS

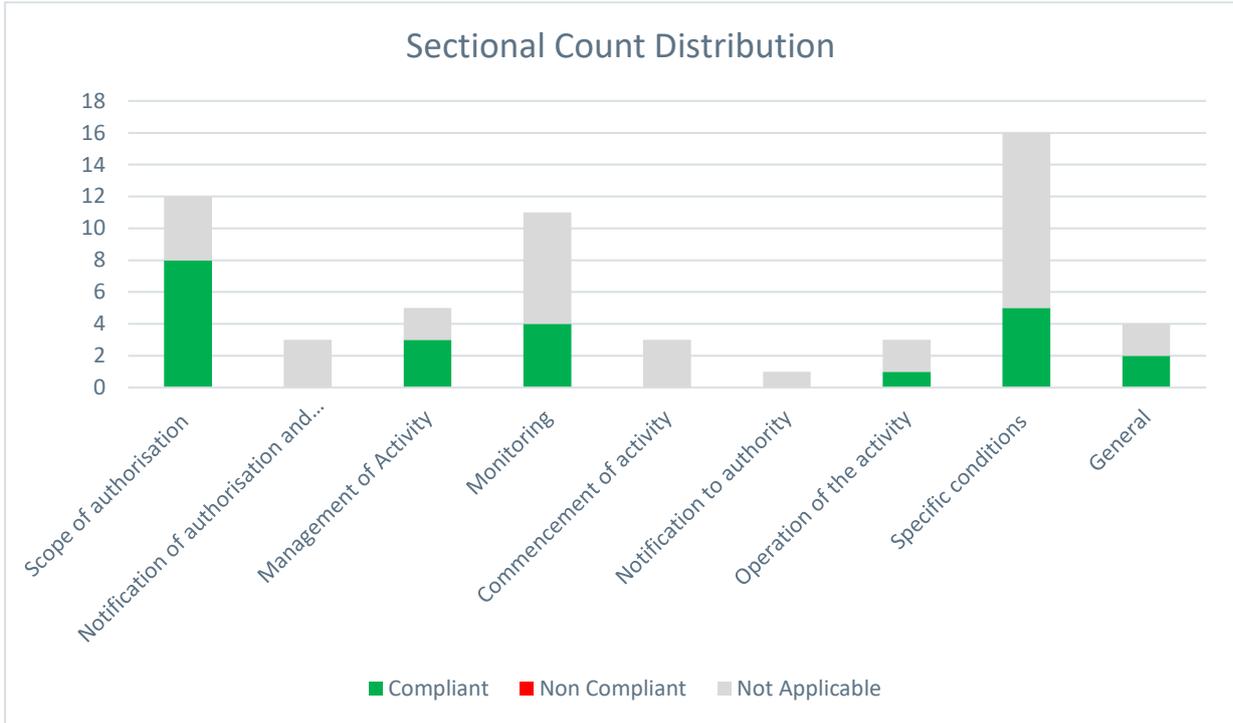
### 6.1 SASOL SASOLBURG SGEPP EA COMPLIANCE

The audit findings have been summarised into the following categories: compliance, non-compliance and not applicable. The overall audit findings concerning compliance to the EA conditions are listed in **Table 6.1** below.

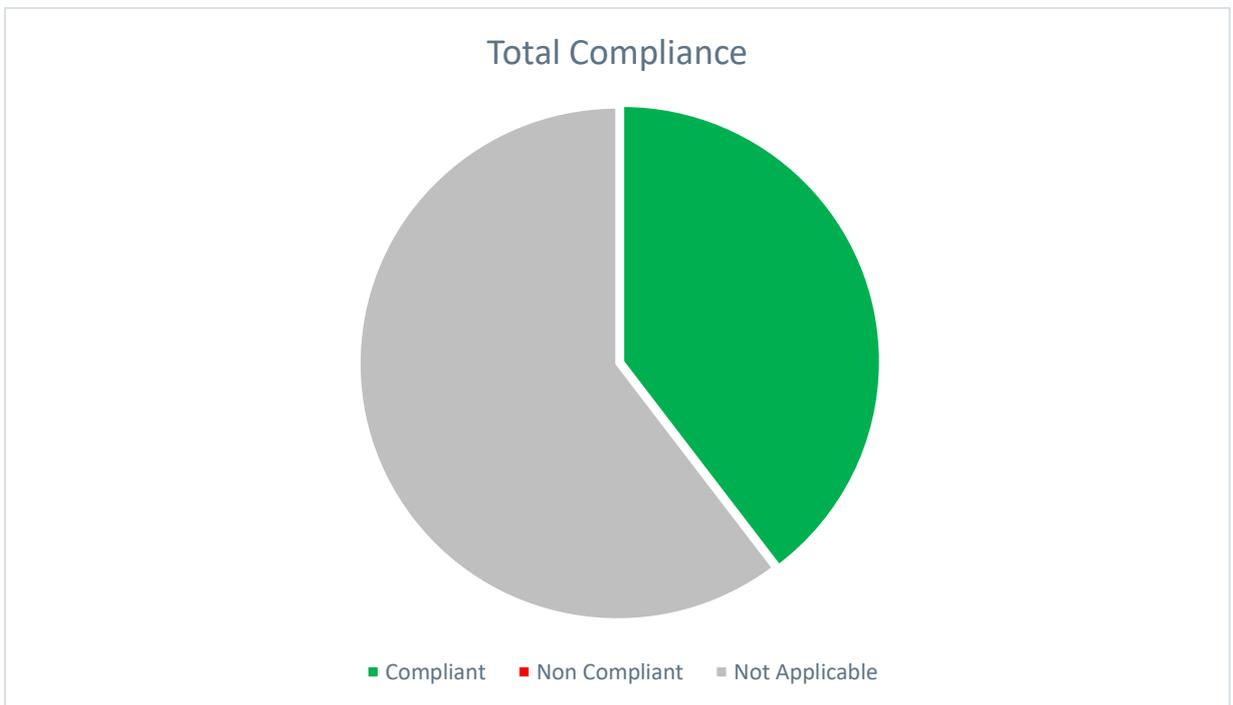
**Table 6-1** - Summary of EA Compliance Audit Findings

Section of the EA	No. Commitments	C	NC	N/A
Scope of authorisation	12	8	0	4
Notification of authorisation and appeal	3	0	0	3
Management of activity	5	3	0	2
Monitoring	11	4	0	7
Commencement of activity	3	0	0	3
Notification to authority	1	0	0	1
Operation of the activity	3	1	0	2
Specific conditions	16	5	0	11
General	4	2	0	2
Total	58	23	0	35
Total Percentage		40%	0%	60%
Percentage Compliance with Applicable Conditions	<b>100%</b>			

**Figure 6-1** illustrates the number/count contribution of the findings of the EA conditions per section while **Figure 6-2** presents the total proportion of compliance for the EA.



**Figure 6-1 - Number/Count contribution of findings made to the EA conditions per section**



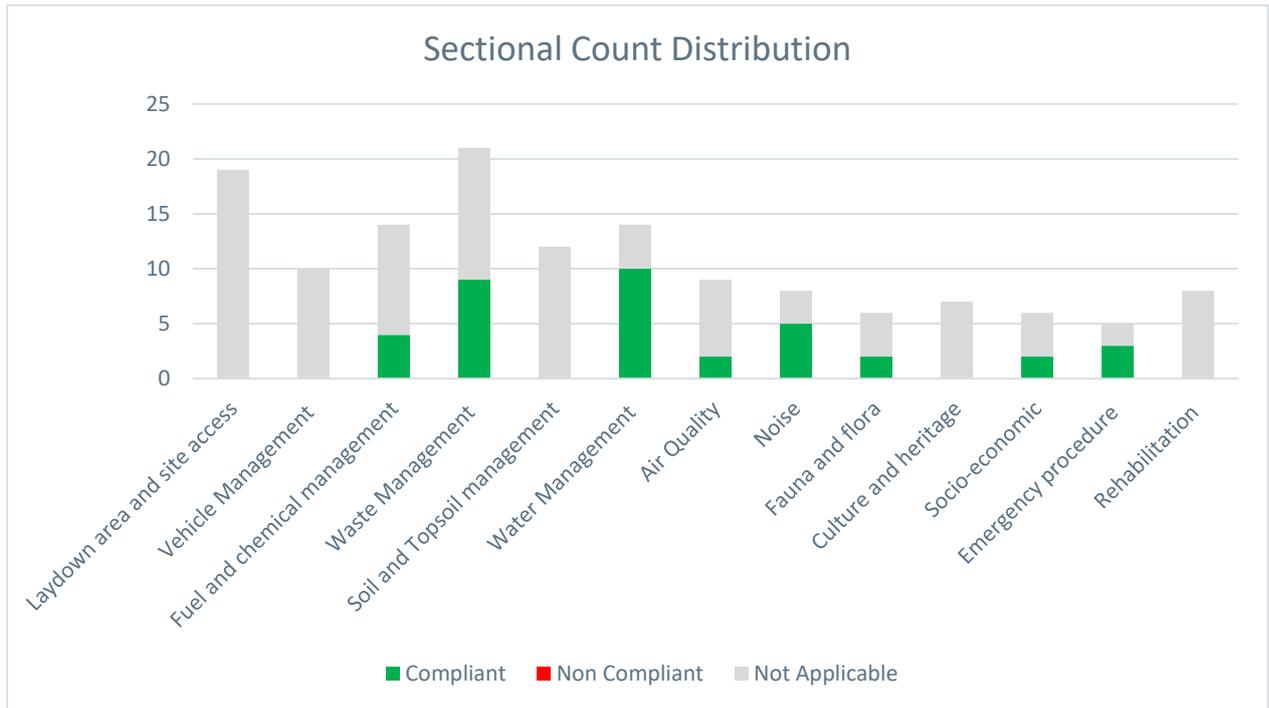
**Figure 6-2 - Overall count findings on compliance to the EA commitments**

## 6.2 SASOL SASOLBURG SGEPP EMPR COMPLIANCE

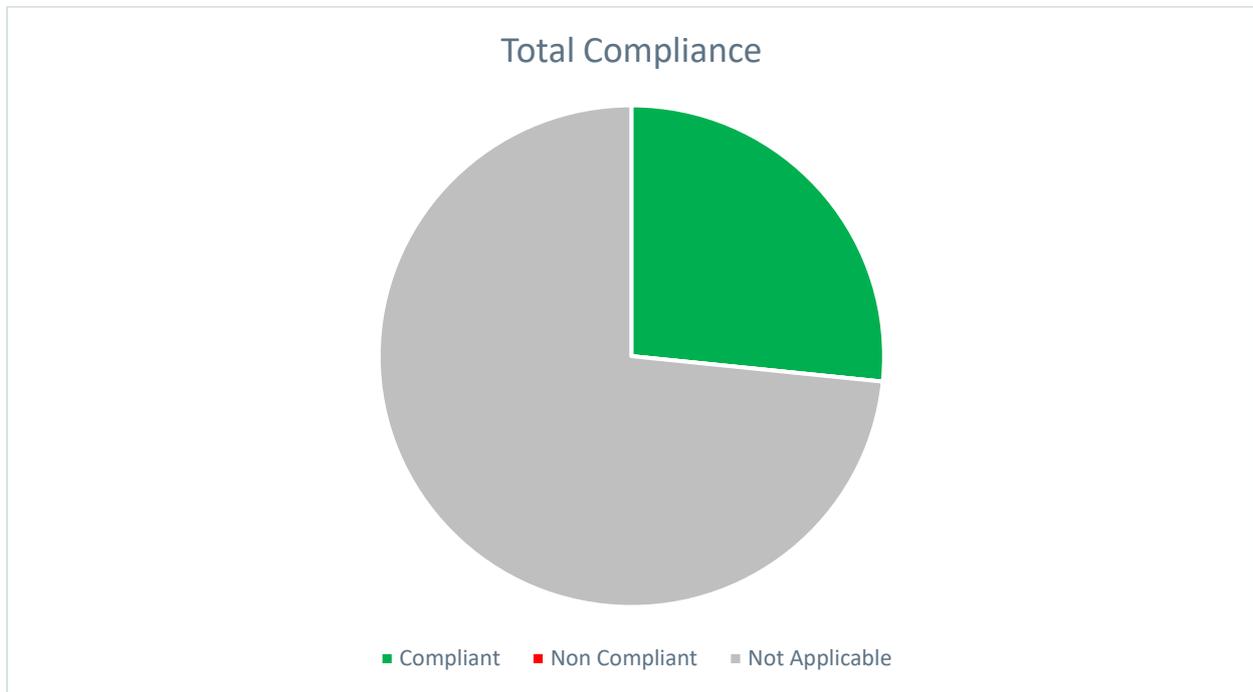
The audit findings have been summarised into the following categories: compliance, non-compliance and not applicable. The overall audit findings concerning compliance to the scoping report mitigations are listed in **Table 6-2** below.

**Table 6-2 - Summary of EMPr Compliance Audit Findings**

Section of the EMPr	No. Commitments	C	NC	N/A
Laydown area and site access	19	0	0	19
Vehicle Management	10	0	0	10
Fuel and chemical management	14	4	0	10
Waste management	21	9	0	12
Soil and topsoil management	12	0	0	12
Water management	14	10	0	4
Air quality	9	2	0	7
Noise	8	5	0	3
Fauna and flora	6	2	0	4
Culture and heritage	7	0	0	7
Socio-economic	6	2	0	4
Emergency procedure	5	3	0	2
Rehabilitation	8	0	0	8
Total	139	37	0	102
Total Percentage		27%	0%	73%
Percentage Compliance with Applicable Conditions	<b>100%</b>			



**Figure 6-3 - Number/Count contribution of findings made to the Scoping report mitigation Commitments per Section**



**Figure 6-4 - Overall count findings on compliance to the Scoping Report Mitigation Commitments**

## 7 RECOMMENDATIONS

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Zero non-compliances of the EA and EMPr conditions was noted during the audit. Sasol is commended for achieving 100% compliance for the EA and EMPr audit and is urged to continue to implement the environmental mitigation measures within the EA and EMPr. In addition, Sasol should continue to implement their EMS for their onsite operations and to identify new environmental risks due to changes in operations, and address these when identified on site.

Sasol is advised to continue with their comprehensive EMS and strategy for detecting environmental risks and resolving incidents and non-compliances identified on site, and to utilize the audit report as an indicator of all areas that need attention.

## 8 CONCLUSION

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Regulation 34 and Appendix 7 of the EIA Regulations 2014 (as amended) requires an assessment of the adequacy and effectiveness of the EA as part of the audit scope, as follows:

- Assess the level of compliance with the conditions of the EA.

The EA compliance audit has identified that the EA commitments remain applicable, and the EA is considered effective. As such, WSP does not recommend any amendment of the EA as it is sufficient in managing environmental impacts.

WSP do acknowledge that Sasol has systems in place which are considered to be more robust for monitoring compliance and implementing changes than through the EA audit; this includes the annual audit of each business unit to meeting the ISO 14001 standards. New impacts and risks are continually identified and assessed by Sasol's Environmental Department, which assesses environmental risks and drives improvement implementation. This Department facilitates Environmental Risk Assessments per business unit to ensure that gaps are addressed through implementation of mitigation measures via an Integrated Management System.

In conclusion, WSP recommends that Sasol continues to operate each business unit under an Environmental Management System and meet the licence compliance conditions (EA, EMPr, WUL, AEL, etc). This is effective for mitigation against any gaps in the EMPr and to regularly identify new environmental impacts and risks that should be addressed on site.



## 9 DECLARATIONS

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### INDEPENDENT AUDITOR DECLARATION

Appendix 7 of GNR 982 refers to the need for the independent auditor to declare his/her independence of the holder of the EA.

NAME OF INDEPENDENT AUDITOR: \_\_\_\_\_ Tshepho Mamashela \_\_\_\_\_

#### UNDERTAKING

I, \_\_Tshepho Mamashela\_\_\_\_\_, the undersigned and duly authorized thereto, by WSP, have studied SGEPP site and compared the operations to the approved EMPr and compiled this report to the best of my knowledge. This section should be read with **Section 2**.

Signed at \_\_\_\_\_Midrand\_\_\_\_\_ on this the \_\_24 January \_\_\_\_\_2024

\_\_\_\_\_  
SIGNATURE OF INDEPENDENT AUDITOR

SIGNED IN LINE WITH THE REQUIREMENTS OF NEMA, GNR 982, APPENDIX 7, AS PUBLISHED UNDER THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT (NO. 107 OF 1998), AS AMENDED.

# Appendix A

## AUDITOR CVS





# Tshepho Mamashela

Earth & Environment - Environmental Consultant

## CAREER SUMMARY

Tshepho Mamashela is an Environmental Consultant currently working for WSP Group Africa at the Johannesburg, Waterfall office in the Environmental Planning and Advisory Department. She is an Environmental Management professional with over 5 years' experience in the private and public sector. Tshepho has experience in environmental management field with expertise in environmental impact assessment, environmental auditing, environmental management plans.



*<1 years with WSP*

*6 years of experience*

### Area of expertise

Environmental Management  
Environmental Impact Assessment  
Compliance Auditing

### Language

English

## EDUCATION

Bachelor of Science (Honours), Environmental Management, University of South Africa 2019  
Bachelor of Science, Geography, University of Pretoria 2017

## ADDITIONAL TRAINING

Esri ArcGIS Basic 2019  
Esri ArcGIS Standard 2019

## PROFESSIONAL MEMBERSHIPS

EAPASA – Environmental Assessment Practitioner Association of South Africa- Registration No. 2019/18 2022  
SACNASP – South African Council for Natural Scientific Professional - Certified Natural Scientist – Registration No. 120878 2021

## PROFESSIONAL HISTORY

WSP Group Africa (Pty) Ltd 2023 - present  
Mills and Otten 2023 – 2023  
Environmental Consultant International 2021 -2022  
Esri South Africa 2019 -2020  
Limpopo Department of Economic Development Environment and Tourism 2018 -2019



## Tshepho Mamashela

Earth & Environment - Environmental Consultant

Mabyoko Environmental Projects

2017 -2018

### PROFESSIONAL EXPERIENCE

#### Environmental Impact Assessment Process

**McCormick Property Development, Development of a New Shopping Centre, Motor City, Private Hospital and Housing in Dan Limpopo Province, South Africa**

2023

EAP

Compile the Scoping Report and the Environmental Impact Report.

**Cubisol Investments, Replacement of an existing sewer pipeline BA Gauteng Province, South Africa**

2023

EAP

Compile the BA report and conduct public participation.

**L Gromer, Expansion of egg processing facility, North West, South Africa**

2023

EAP

Compile the BA.

**Engen Petroleum, Upgrade and Expansion of the Engen Impala Filling Station, Limpopo, South Africa**

2023

EAP

Compile the BA report, application forms and conduct public participation.

**African Realty Trust, Construction of six in-stream storage dams at Letaba Estate, Limpopo, South Africa**

2022

EAP

Assisted with compiling scoping report, application and related public participation documents.

**Garonga Safari Camp, S24G Application for Garonga Safari Camp, Limpopo, South Africa**

2021/2022

EAP

Assisted with compiling scoping report, application and related public participation documents.

**McCormick Property Developers, Development of shopping centre and filling station at Madombizha, Limpopo Province, South Africa**

2018/2019

Case officer

Review the BA for decision making process.

**KHPJ Property Developers, Mixed-use development at Tiyani-B, Limpopo Province, South Africa**

2018

Case Officer

Review the Scoping Report and Environmental Impact Report for decision making process.

**Thulamela Local Municipality, Demarcation of 500 sites at Maphefeni, Limpopo Province, South Africa**  
Year from/to

2018

Review the Scoping Report and Environmental Impact Report for decision making process.



## Tshepho Mamashela

### Earth & Environment - Environmental Consultant

**L. P Mogobobye Hydraulics, Filling station at Sifikile Village, Bojanala, North West Province, South Africa**

**2017/2018**

**EAP**

Assisted in compiling the BA and supporting documentation including application forms and public participation material.

#### **Compliance Auditing**

**Total Energies, Filling Moutse Mall Filling Station, Limpopo Province, South Africa**

**2023**

**Environmental Control Officer**

Provided Environmental Control Officer (ECO) services by conducting monthly EMPr and EA audit for the construction of the filling station.

**Sasol, Sasol Ammonia Storage Facility Upgrade, Free State Province, South Africa**

**2023**

**Environmental Control Officer**

Provided Environmental Control Officer (ECO) services by conducting monthly EMPr and EA audit for the construction of the ammonia storage facility.

**Cubusol Investment, Soshanguve Mall Upgrade, Gauteng Province, South Africa**

**2023**

**Environmental Control Officer**

Provided Environmental Control Officer (ECO) services by conducting monthly EMPr and EA audit for the construction of the mall.

**Alley Road, Residential Construction at Meyerton, Gauteng Province, South Africa**

**2023**

**Environmental Control Officer**

Provided Environmental Control Officer (ECO) services by conducting monthly EMPr and EA audit for the construction of the residential complex.

**Lynx Construction Group, Thatchfield Mall Construction, Gauteng, South Africa**

**2023**

**Environmental Control Officer**

Provided Environmental Control Officer (ECO) services by conducting monthly EMPr and EA audit for the construction of the mall.

**Emfuleni Estate Homeowners Association, Annual Water Use License Compliance, Free State Province, South Africa**

**2023**

**Environmental Control Officer**

Provided Environmental Control Officer (ECO) services by conducting annual WUL audit.

**Engen Petroleum, Annual Compliance Audit for Gauteng Site, Gauteng Province, South Africa**

**2023**

**Environmental Control Officer**

Provided Environmental Control Officer (ECO) services by conducting monthly EMPr and EA audit for the operation of the filling stations. The following filling station were audited:

- Engen Hazeldene Convenience
- Engen Vega Service Station
- Engen Silver Lakes Convenience



## **Tshepho Mamashela**

Earth & Environment - Environmental Consultant

- Engen R511 Tanganani
- Engen Wierda Park Motors
- Engen Lombardy Convenience Centre
- Engen Country View Service



## Matilda Mbazo

Earth and Environment, Environmental Planning & Advisory, Intern

### CAREER SUMMARY

Matilda Mbazo graduated from Monash South Africa with a BSc in Social Sciences (cum laude) in 2021 and completed her BSc Hons in Geography at University of Witwatersrand in 2022. Matilda is currently pursuing her MSc in Environmental Sciences at University of Witwatersrand. Matilda is an Intern in the Environmental Planning and Advisory Division of WSP Group Africa based in the Waterfall office. Matilda has less than a year experience in the environmental field and currently provides technical and strategic input on a diverse range project in the environmental management field, including environmental audits.



**1 < years with WSP**

#### Language

Afrikaans, English, Tswana, Ndebele, and Zulu

### EDUCATION

Monash South Africa – Bachelor’s degree in Social Sciences	3 years
University of Witwatersrand - Bachelor of Science Honours (Geography)	1 year
University of Witwatersrand – Master of Science (Environmental Sciences)	current

### PROFESSIONAL HISTORY

WSP - Graduate Consultant	current
WSP - Intern	2023
WSP - Vacation Student	2021 - 2022
IIE MSA - Administration Assistant	2020 - 2021
Cotton On Group - Sales Associate	2020 - 2021

### PROFESSIONAL EXPERIENCE

#### FFS Chloorkop Fired Heater

July 2022 to June 2023

**ECO:** EA and EMPR Compliance Audit

**Environmental Auditor :** EA and EMPr Annual Compliance Audit

#### Sasol South Africa Limited, Sasol Sasolburg EA Audits, South Africa

October 2022 to October 2023

**Environmental Auditor**



At the Sasol One Complex in Sasolburg, nine unit operations were subject to an external compliance audit against their EA and EMPr criteria.

**South 32: Wessels and Mamatwan Mine, EA and EMPr Audits**

November 2023

**Environmental Auditor** : EA and EMPr Compliance Audit

**Dissertations and Research Projects**

**Department of Geography, Archaeology and Environmental Studies, University of Witwatersrand, Master of Science Dissertation.**

**2023-2024**

To quantify the interactive effects of extreme drought, fire frequency, and mega-herbivory on tree density in a Marula-Knobthorn savanna using Geographic Information Systems and Remote Sensing.

**Department of Geography, Archaeology and Environmental Studies, University of Witwatersrand, Bachelor of Science (Geography), Research Project**

**2022**

Assessment of flood impact at the Hennops river, streaming from Tembisa to Centurion, using Remote Sensing and Geographic Information System.



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Midrand, 1685  
South Africa

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**Annexure B – Gas Engine Power Plant - SGEPP– ref [12/12/20/2001] [DEA/EIA/0000101/2011]**

Environmental Management Programme Operational Phase

Mitigations measures identified during the environmental impact assessment, for the operational phase of the project, defining the impact management outcome and impact management actions to enable compliance to this regulation.

<b>Mitigation Impact Objective</b>	<b>Mitigation Impact Actions</b>
<p><b>1. Environmental awareness training and induction</b>                      -To define roles and responsibilities for environmental management                      -To ensure suitable environmental training and induction to all on site personnel                      -To promote environmental awareness</p>	<p>1.1. Environmental Awareness and Training, all employees must be familiar and aware of the EMP, key issues and consequences of non-compliance. Personnel must sign the EMP, and toolbox talk attendance register.</p>
<p><b>2. Fuel and chemical management</b>                      -To ensure the correct storage and handling and disposal of fuels and chemicals in order to prevent impacts to the surrounding environment</p>	<p>2.1. Fuel and chemical management for storage, handling and spillages must be undertaken in accordance with water management</p>
	<p>2.2. Sasol Operations waste management procedure must be implemented and adhered to for the Sasol GEPP site</p>
<p><b>3. Water management</b>                      -To implement measures to prevent the contamination of surface and ground water resources</p>	<p>3.1. In the event of rain, water collected within these containment facilities can be released if not contaminated. If the contents of containment facilities are contaminated the material should be removed and disposed of as hazardous waste as per waste management procedure.</p>
	<p>3.2. Clean storm water can be allowed to follow the natural flow off site into the receiving environment.</p>
	<p>3.3. All oily water from phase 1 and 2 (intermittent stream) must be routed to the oil-water separator (lube oil tank) on site</p>
	<p>3.4. The lube oil tank, separation pond and spent oil tank on-site must be suitably bunded and the storage area floor made from an impervious surface. The bund will retain 110% of all the container volumes and tank capacity of the largest tank including a 1 in 100-year flood.</p>
	<p>3.5. The bund wall must be continually inspected and maintained together with on-site records as proof</p>
	<p>3.6. The oil from the oil-water separator must be skimmed off and recovered in the spent oil tank on-site. This must be undertaken once the oil water separator has reached 75% tank capacity.</p>
	<p>3.7. Unsuitable water must be routed to a tie-in point at Steam Station two for disposal at the oily water sewer.</p>

	3.8. Monitoring of water volumes taken from the municipality must be undertaken on a regular basis that will be utilized for Phase 2.
	3.9. All chemicals and other hazardous material are to be stored in designated and bunded areas, where the bunded area is impermeable and is impervious to the stored substance. The bunded area must also be able to contain 110% vol of the largest container stored.
	3.10. Reporting, investigating and recording of environmental incidents procedure reference number SSP – S – 013 must be implemented and adhered to for the GEPP.
	3.11. All effluent is to be undertaken in accordance with the Standard Operating Procedures and associated SDS for the hazardous material (where applicable)
<p><b>4. Air Quality</b>  -To ensure that impacts to air of the surrounding environment are ameliorated  Sources of emissions associated with the operational phase: carbon monoxide airborne fine particulates and nitrogen oxides</p>	4.1. NO2 should be operated in accordance with their design specification
	4.2. Vehicles and machinery/ equipment must be adequately maintained so as to prevent becoming the cause of excessive fumes
	4.3. Sources of CO, PM10 and NO2 should be operated in accordance with their design specification and all maintenance and repair operation requirements must be maintained in order to ensure optimum performance and minimal emissions
	4.4. All Maintenance and repair operation requirements must be maintained to ensure minimal NO2 emissions
	4.5. Annual air stack monitoring and modelling must be initiated for SGEPP to verify emission from the process at the start of COMMISSIONING at least once a year
	4.6. PM10 should be operated in accordance with their design specification
	4.7. All Maintenance and repair operation requirements must be maintained to ensure optimal performance and minimal PM10 emissions
	4.8. Sasol's design specification must be maintained in order to ensure optimum performance and minimal CO emissions
	4.9. All maintenance and repair operation requirements must be maintained in order to ensure optimum performance and minimal CO emissions
<p><b>5. Noise</b>  -To ensure that noise impacts to the surrounding environment are minimal or mitigated</p>	5.1. Sasol's Complaints procedure should be used to report any excessive noise and to monitor complaints regarding noise All areas where incidents occurred must be handled and the incident closed out in accordance

	with the EMS: Reporting, Investigating and Recording Environmental Incidents
<b>6. Waste management</b> -To ensure the correct handling, storage transportation and disposal of general and hazardous waste	6.1. Sasol Operations waste management procedure must be implemented and adhered to for the Sasol GEPP site
	6.2. Hazardous waste must be disposed using techniques appropriate to the situation as per the Waste Management Procedure and/or agreement with the waste disposal contractor. Alternatives such as remediation techniques must be investigated prior to disposal at permitted hazardous landfill site.
	6.3. Hazardous waste bins must be clearly marked, colour coded and covered with a lid.
	6.4. In the case of a spill of hydrocarbons or chemicals on the construction site or laydown area, the spill, together with contaminated soil, should be contained. Hazardous material should be managed as per the Waste Management Procedure.
	6.5. Key personnel must be trained on handling spillages.
	6.6. All spills must be handled according to Emergency Procedures.
<b>7. Fire</b>	7.1. Fire extinguishers, of the correct type, must be strategically placed on-site and near the hazardous material store. Personnel must be trained in basic firefighting skills.
<b>8. Fauna and flora</b> -To ensure effective control and eradication of alien invasive plant species	8.1. Weeds, alien and invasive vegetation must be removed should ingress occurs
<b>9. Communication, complaints register and environmental incident register</b> -To ensure record and resolution of all issues and concerns by affected parties	9.1. Existing complaint procedure should be utilised. The following must be recorded: <ul style="list-style-type: none"> <li>■ Time, date and nature of complaint;</li> <li>■ Response and investigation undertaken; and</li> <li>■ Corrective and preventative actions taken and by whom.</li> </ul>
<b>10. Emergency procedures and incidents</b> -To ensure that roles, responsibilities and method statements are defined and clearly communicated to emergency situations	10.1. The list of the Emergency telephone numbers will be maintained on-site along with appropriate spill kits, firefighting equipment and PPE.
	10.2. In case of a spill of hydrocarbons, chemicals or bituminous material. The spill with contaminated soil should be contained and treated using the site spill kit i.e. adsorbent material.
	10.3. Should a pollution incident occur on-site the following procedures should be undertaken: 1.

	<p>Notify the DEO 2. Notify Sasol 3. Notify all personnel whose health may be affected by the incident 4. Implement measures to contain and minimise the impact</p>
	<p>10.4. The relevant emergency procedures relevant to particular chemicals used on-site as per SDS and suppliers' guidelines will be followed in the event of an emergency</p>