Motivation for the postponement of compliance timeframes in terms of Regulation 11 of Section 21 NEM:AQA Minimum Emission Standards, for Sasol South Africa Limited operating through Secunda Synfuels Operations, Secunda Chemicals Operations and Sasol Oil

COMMENTS AND RESPONSE REPORT

This Comments and Response Report (CRR) records the comments expressed by Interested and Affected Parties (I&APs) during the Public Participation Process followed for the Sasol South Africa Limited (Sasol) Secunda Synfuels Operations, Secunda Chemicals Operations and Sasol Oil.

Comments were received in writing (comment forms, online comment forms and emails). Participants at the open day held on the 22 January 2019 at the Secunda Recreation Club where asked to complete comment forms to document their input and assistance with capturing comments on the comment forms was provided.

The comments have been tabulated as follows. Where appropriate, responses from the Sasol and SRK Consulting (South Africa) (Pty) Ltd. (SRK) project team members have been provided.

APPENDICES

Appendix 1: Comments recived and responses provided

- Emails
- Comment forms
- Online comment form report

Appendix 2: Public meeting attendance registers

NO	COMMENTS RAISED BY STAKEHOLDERS	STAKEHOLDER NAME	ORGANISATION/ COMMUNITY	DATE	SOURCE	RESPONSE
1	Indicated they have the solution to the emissions compliance issues which their technical team can resolve. Noted they have a plant in Crowns Mines-Clinical Waste Management that can take the waste immediately whilst we plan on technical alterations to improve existing technology for compliance purposes.	CAROL MATHONSI	COCASE SA(PTY)Ltd	22/01/2019	Comment form completed at the open day	Sasol representatives at the open day took Carol's contact details and provided the link to the information to formally register as a Sasol service provider.
2	LJ and MAK HOLDINGS indicated they could assist Sasol to reduce their emission when they use a fuel treatment (VOC, DIESEL and PETROL) additive. Noted they have a solution and would like to assist Sasol in reducing emissions.	LEBO JEFFREY MAKOFANE	L.J and MAK HOLDINGS	22/01/2019	Comment form completed at the open day	The solution has been investigated. Unfortunately, the additive is intended for use in traditional crude oil refineries. SSO however converts coal to gas and then to liquid fuel and as such does not refine any crude oil.
3	Objected to the application, particularly the incinerators indicating the focus should rather be on recycling.		Environmental Monitors			Sasol have investigated and implemented recycling options. These do however have limitations and some incineration is still required.
4	Noted that they felt that Sasol violates the communities' rights to a healthy environment and that government is too lenient.	KHEHLA MATHLANGU		22/01/2019	Comment form completed at the open day	The National Ambient Air Quality Standard (NAAQS) were informed by World Health Organization Guidelines applicable at the time. The standards were published following meetings of a standard setting committee comprised of Department of Environmental Affairs (DEA), industry and Non-Governmental Organisations (NGO)s. The NAAQS are "levels of pollutants below which ambient air quality can be considered to be not harmful to human health" DEA, August 2013, Draft Strategy to Address Air Pollution in Dense Low-Income Settlements) and thus reflect permissible health risks for all South Africans. It is important to emphasise that the NAAQS do not mean concentrations below which there are no effects but rather what are considered to be tolerable risks of health effects. For all criteria pollutants, barring PM and NO2 (only for the DEA

5	Noted concern that Sasol is responsible for both emissions and monitoring and that neither the Sasol nor the DEA stations monitor benzene. They noted that pollutant concentrations (PM and SO ₂) where elevated last year (2018) between May and August based on their observations and noted the contribution of these pollutants by the mining belt.					Secunda monitoring station where data availability was limited), both the simulated and observed ambient concentrations are below the NAAQS. For PM and NO2, while the observed ambient concentrations are above the NAAQS, the simulated ambient concentrations emanating from SSO's sources are well below the NAAQS demonstrating the contribution to ambient concentrations from other sources. Sasol operates three accredited (ISO/IEC17025) ambient air quality monitoring stations in and around Secunda, namely at the Secunda Club, Embalenhle and Bosjesspruit. The Sasol monitoring stations are accredited (ISO/IEC17025) to ensure data quality and availability. The air impact report (AIR) also took ambient monitoring station, although accreditation certificates from the DEA monitoring stations have not been provided and data availability was limited.
6	Noted that Sasol's reporting to the community is not transparent because they employ the independent assessors (Airshed, SRK and Exponent). He feels that the community should be directly involved in the monitoring as the community can provide solutions to environmental issues.				Comment	Airshed, SRK and Exponent are independent consultants with professional registrations that require independence in the work they undertake. Meetings have been held with these individuals regarding opportunities for them to become involved in monitoring activities.
7	Concern was raised that Sasol had invested in the USA and noted that they believed that this would result in them closing their South African operations. Noted that in objecting to the postponement application their intention is to compel Sasol to spend locally on compliance projects to prevent Sasol investing in the USA.	FANA ISAAC SIBANYONI	NSM Environmental Projects(NPC)	10/ 01/2019 22/01/2019	form emailed to SRK and also added to at the open day	Sasol remains deeply committed to South Africa and continues to contribute significantly to the South African economy through direct and indirect taxes, operating and capital expenditure and corporate social Investment spend. Sasol has no immediate plans to shut down any of our facilities in South Africa. The life of the Secunda operations is based on the life of the technology and the feasibility of replacing the technology. The feasibility is affected by Sasol's financial situation but also

	Consulting. 500450 - Occurrida Cyrrideis Operations Orriv					T age 5
						by requirements like those imposed by the MES.
8	Noted concern that Sasol identifies sources other than themselves as contributors to poor air quality. He noted that he believes Sasol is the main contributor to poor air quality and should therefore be required to construct a large hospital and cemetery.				Comment form emailed	Contribution of other sources is demonstrated in the AIR through the modelled versus actual ambient concentrations in addition to source apportionment studies that aim to fingerprint all contributors. Sasol contributes significantly to the communities in which it operates through our various Social Investment programmes. Although, provision of cemeteries and health care remains the responsibility of government despite Sasol continues to contribute to the day to day operation of the area.
9	He referenced minutes of the 2010 sustainable energies utilities programme meeting as proof that Sasol does not want to invest in compliance. In the minutes the cost of compliance with the MES was discussed by Sasol with one-member querying whether the spend of R2 billion was justified or whether it would be better spent on other projects on the plant. The minutes also state that Sasol is investigating whether in some instances it may be more favourable to replace old technology at the end of life rather than installing abatement technology on old equipment.	SKHAKHA DANIEL SIBEKO	NSM Environmental projects	10/ 01/2019 22/01/2019	to SRK and also added to at the open day	Sasol would be remiss if it didn't question the need to spend R2 billion on anything. Further understanding of the requirements of the MES has improved substantially since 2010 when they were first published. Finally, when the MES were first published in 2010 the process to amend the MES was immediately started. Hence the reluctance of all industries to invest in compliance when the standards to be complied with where likely to change.
10	Requested that Sasol plant other plant species rather than spinach on the ash dump due to health concerns for those consuming the spinach.	MFUNGELWA	JNGELWA Voice of the voiceless environmental	22/01/2019	2/01/2019 Comment form completed at the open day	Wild spinach growth was detected at a small area at the ash dumps. Sasol however controlled and prevented further growth by using weed control to prevent accidental/unauthorised use.
11	He requested that multi-stakeholder meetings be held more frequently to discuss meetings to be help as part of public participation processes for specific projects.	RADEDE				Sasol is considering a process of identifying a core group of community representatives that will assist in disseminating information and

				advising Sasol on how to undertake other public engagements.
12	Requested for Sasol to build both a general and TB hospital.			Provision of health care remains the responsibility of government despite Sasol's continual corporate social investment contributions.
13	Queried the anticipated Sasol life of plant and indicated he believed it was until 2050.			Sasol's strategy affirmed that existing operations hold substantial long-term value that require continuous investment to enhance the efficiency and reliability of our facilities, while minimising our environmental footprint and achieving world-class safety. Currently strategy support for the continued operation of the Secunda plant extends until 2050 and beyond.
14	Queried why the results from the dust bucket sponsored by groundwork are different from those at monitoring stations.			Sasol have no reference to the Groundwork dust bucket locations and results and therefore cannot comment on reasons for any differences.
15	Queried the community contribution to the monitoring stations?			All Sasol's air quality monitoring stations are on-line real time instruments that measure
16	Queried whether the community could accompany individuals when they take measurements at the monitoring stations.			various chemical components in the ambient air related to air quality. For this reason, our equipment like that of DEA are highly complex
17	Noted that Patrick Duna had received training on new environmental legislation and monitoring. He suggested that he be used as a monitoring specialist.			and highly technical and ISO accredited requiring trained, skilled and appropriately qualified technicians to service and maintain as required. These instruments do not require continuous human intervention.
18	Queried the health impacts of H ₂ S.			Predicted daily H2S concentrations, modelled in terms of the AIR, were compared against the WHO (2000) 24-hour health-based guideline (150 μ g/m3) for the Sulfur Recovery Plant and no exceedances of the guideline were predicted.
19	Queried where the waste from the tanks go and raised suspicion that it is washed into the local dams referencing the gypsum dam as an example.			During tank statutory maintenance, the sludge that remains after the tank has been emptied from product is removed by an accredited waste removal contractor. The sludge removed

						is either reused as an alternative fuel in a suitable identified process or is disposed of in licensed waste landfill in accordance to legal requirements.
20	Noted that they felt that Sasol violates the communities' rights to a healthy environment and that government is too lenient.				Ormanat	Response as per Comment 4 above
21	Noted concern over the state of National Health care and how financial resources are wasted.	KHEHLA MATHLANGU	Environmental Monitors	10/01/2019	Comment form emailed to SRK	Response as per Comment 12 above
22	Noted that the prevalent wind direction from Sasol is towards eMbalenhle.					Prevalent wind direct is north/ north-west from the plant and eMbalenhle is located west of the plant.
23	Queried when a public meeting in eMbalenhle would be held.	LAZARUS KUTUMELA	Planatorium Solutions	12/01/2019	Email	An open day at the Sasol Secunda Club, where all residents of Govan Mbeki Municipality are welcome to attend, was held.
24	Noted concern that a public meeting/ open day was not held in eMbalenhle effectively ignoring the poorer community and implying that they do not have a right to participate.	LAZARUS KUTUMELA	Planatorium Solutions	05/02/2019	Email	The meeting venue was chosen due to Secunda being a central place where the greatest number of people living in Govan Mbeki Municipality are able to reach it coming from the various towns in Govan Mbeki Municipality. The meeting was for all residents/community of GMM and not a replacement of the Embalenhle Community. In addition, eMbalenhle club has previously been associated with protest action and is difficult to secure. As such Sasol prioritised the safety of all I&APs, participants, visitors and Sasol employees when selecting the meeting venue for the public open day.

25	Noted the impacts on human health from poor air quality stating that research has shown that Air Pollution causes more deaths than HIV and TB combined. He noted that supporting the postponement would be tantamount to committing suicide and the death penalty. He noted that the area was experiencing exponential growth in child mortality due to air quality. He notes that his son has been suffering from respiratory complications due air pollution resulting in absenteeism at school. He notes that mitigation implemented by Sasol is ineffective for his family and the eMbalenthle community.		Re	esponse as per Comment 4 above
26	He notes that the application for postponement goes against the constitution and denies access to a healthy lifestyle.		Re	esponse as per Comment 4 above
27	He notes that he believes SRK is equally responsible due to their role in this and previous postponement application process'. He believes that SRK should undertake Human Health Impact Assessment based on their involvement in Sasol's postponement applications.		as: un Th is t co ap au int ref	RK is an independent consultant hired to sist Sasol in preparing the application and dertaking the public participation process. he purpose of the public participation process to provide I&APs with the opportunity to raise ncerns and make comments on the oplication. This input then informs the thorities decision. SRK therefore has no erest in whether the application is granted or fused, responsibility for this decision rests lely with the authorities.
28	He notes that "should this application go ahead without public meeting held at eMbalenhle, where the affected and interested public will be given the platform to engage the polluters, I will seek the intervention of the portfolio committee on environment and inform your professional bodies on the process followed in this application."		Th Re	ne requirements of Chapter 6 of the EIA egulations have been met and exceeded in owing opportunity to participate.

29	Noted that the MES postponements applications cannot and should not be even considered by the NAQO as the geographical area within which the application is sought is not in material compliance with the national ambient air quality standards for pollutant or pollutants being applied for.	Rico Euripidou	groundWork - Friends of the Earth South Africa	15/02/2019	Email	Sasol consistently communicated its committed to compliance with the MES by 2025, except for SO ₂ from our boilers. This is enabled through the postponement application that meets the requisite requirements as explained in the MES to fully enable the NAQO to exercise her discretion in this regard. The postponement application in question, as confirmed by independent air pollution assessments, clearly indicate that Sasol's emissions in itself do not cause exceedances of the national ambient air quality standards. These assessments highlight that the key air quality issue in the vicinity of our plants is high ambient concentrations of particulate matter (including smoke), where the use of domestic fuels such as coal and wood in residential areas, is an important source especially evident during winter. This is exacerbated by other activities such as waste burning (Sasolburg). It is our submission that these externalities cannot unduly impact the merits of Sasol's application to enable compliance in the interest of improved ambient air quality.
30	The legality of the amendment of the SO ₂ limit for solid fuel combustion installations is questioned and it is indicated that the Minister of Environmental Affairs to withdraw this unlawful amendment or face legal action.					Sasol notes the comment regarding the legality. Sasol confirms that its postponement application is based on and aligned with the provisions of the existing MES that were duly promulgated. Sasol cannot comment on the views and the associated legal challenges and recommendations made.

31	Submit that SASOL and NATREF have had ample time to plan for and retrofit their respective plants since 2010 and more accurately since the negotiations for the MES began leading up to the promulgation of the MES.		Sasol consistently communicated its commitment to legal compliance and in particular to meet the new plant standards, by latest 2025 (except SO ₂ which we are still considering our ability to comply with new promulgated limit) Sasol and Natref aim to achieve this through the implementation of committed roadmaps along extended timeframes. The latter is enabled through the provision for postponements and Sasol and Natref is exercising the rights provided for in the MES in this regard. Sasol conducted technical investigations to examine appropriate emission abatement options. Given the finalization of standards through promulgated amendments in November 2013, Sasol could only then continue with affirming compliance solutions. Under the circumstances, ffurther postponements were necessitated in some instances where preferred alternatives were not proven to be successful or technology was not available in time to meet the 2020 deadline.
32	Concerns are raised regarding the alternative emission limits being applied for.		The alternative emission limits have been developed utilizing statistical analysis of all valid emission data to our disposal for a specific point source. The outcome reflects the most conservative operating level, while being mindful of, and allowing for normal operational variability associated with changes in feedstock (input) composition and quality. The approach to defining the alternative emissions has been based on the DEA's method of 2 standard deviations above average emissions.

 SASOL and NATREFs emit very significant volumes of SO₂ and NO_x, in addition to PM. The overall findings of the AIR neglect the fact that SO2 and NOx, as primary pollutants, are also transformed through chemical and physical processes in the atmosphere, to secondary PM2.5. This formation contributes significantly to total ambient PM2.5. Groundwork indicated that the dispersion models selected to assess the air quality impact must be capable of modelling both dispersion and chemical transformation (photochemical) processes and should include the modelling of SO₂ and NO_x emissions. 	The CALPUFF dispersion includes parameterized chemistry modules for the formation of secondary sulfate and nitrate from the oxidation of the emitted primary pollutants, SO2 and NOx. For this study, the model calculated the rate of transformation of both SO2 to sulphates (SO4) and the rate of transformation of NOX to NO3 (nitrates) based on environmental conditions including the ozone concentration, relative humidity, and the plume NOx concentration. Thereafter the modelled total particulate matter (PM) concentrations was calculated summing primary PM and secondary PM (sulfate and nitrate). The ambient air quality impacts for both particulate fractions (i.e. PM10 and PM2.5) thus need to be considered. Sinculate disconcentrations of particulate matter (PM) are conservatively assumed to be PM2.5 since it is not possible to establish the PM2.5//PM10 split.Thus the modelled simulated concentrations of particulate matter (PM) are conservatively assumed to be PM2.5 since it is not possible to establish the PM2.5//PM10 split.
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Appendices

Appendix 1: Comments Received

- Emails
- Comment Forms
- Online Comment Form Report

From:	Philippa Burmeister
Sent:	Tuesday, 15 January 2019 17:05
То:	admin
Cc:	Romi Bellusci
Subject:	RE: Application or Postponement of certain requirements of NEM_AQA No. 36 of 2004 at Sasol
	Secunda

Dear Mr Kutumela

With reference to the query below, please note that we will be hosting one open day at the Sasol Secunda Club, where all residents of Govan Mbeki Municipality are welcome to attend.

The sessions open to all residents from the different areas.

Regards

Philippa Burmeister (nee Emanuel) PrSciNat, BSc Hons Principal Environmental Scientist

SRK Consulting (South Africa) (Pty) Ltd.

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Tel: +27-(0)31 279 1200; Fax: +27-(0)86 734 1304 Mobile:+ 27-(0)83-651-3462; Direct:+ 27-(0)31 279 1233; Email: <u>pburmeister@srk.co.za</u>

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Please consider the environment before printing this e-mail.

From: admin <info@planatoriumsolutions.co.za>
Sent: Saturday, 12 January 2019 9:57 AM
To: Philippa Burmeister <PBurmeister@srk.co.za>
Cc: Romi Bellusci <RBellusci@srk.co.za>
Subject: Application or Postponement of certain requirements of NEM_AQA No. 36 of 2004 at Sasol Secunda

Hi

Please let us know when will the public meeting take place at eMbalenhle as we have interest in this matter. From the newspaper advert it clear that Secunda residence will receive a briefing but the question is when willeMbalenhle be next?

Sincerely, Lazarus Kutumela



From:	Romi Bellusci
Sent:	Wednesday, 06 February 2019 11:56
То:	Philippa Burmeister
Subject:	FW: Application for Postponement NEM:Air Quality Act No. 39 2004

From: planatorium planatorium <planatoriumsolutions@gmail.com>
Sent: Tuesday, 05 February 2019 19:26
To: Romi Bellusci <RBellusci@srk.co.za>
Cc: Philippa Burmeister <PBurmeister@srk.co.za>
Subject: Application for Postponement NEM:Air Quality Act No. 39 2004

Hi

Your application for assisting Sasol South Africa Secunda Operations to comply with Minimum Emission Standards has reference.

The postponement application is not supported on the following grounds;

1. No public participation was held in my area of residence(eMbalenhle) but only in Secunda where the middle class and effluent members society stay. The poor, working class and low income members of the socoiety were ignored. This implies eMbalenhle community has no right to information that affects the quality of their life.

2. Information on the negative impacts of air pollution on public health is available from various sources. It is well established through research that Air Pollution causes more death than HIV and TB combined. Therefore, by supporting this postponement will be tantamount to commiting suicide and support for death penality. Our area is experiencing exponential growth in child mortality due to air quality. My son has been suffering from respiratory complications due air pollution resulting in absetiseeim at school.

3. Measures to reduce the impact of air pollution on public implimented by Sasol Secunda has never work for my family and the general public of eMbalenhle.

4. The constitution guarantees every citizen access to clean air and your application is not only against the constitution but deny us access to a healthy life.

5. Your company is against better life for people living in areas that receive these air pollutants because it has been involved several times in assisiting Sasol not to comply with Minimum Emission Standards. This statement is founded on the basis that your company has never made any study to determine the impact of your support to postponement application for Sasol on people living in eMbalenhle.

6. Should this application go ahead without public meeting held at eMbalenhle, where the affected and interested public will be given the platform to engage the polluters, I will seek the intervention of the portfolio committee on environment and inform your proffesional bodies on the process followed in this application.

Sincerely,

Lazarus Kutumela

From:Fana Sibanyoni <fano.sibanyoni@gmail.com>Sent:Monday, 14 January 2019 12:39To:Romi Bellusci; Philippa BurmeisterSubject:Re: Registration and comment

Noted with thanks,

On Mon, Jan 14, 2019 at 12:30 PM Romi Bellusci <<u>RBellusci@srk.co.za</u>> wrote:

Thank you, we have added khehla to the Interested and Affected Parties database and their comments will be addressed in the comments and responses report.

Regards,

Romi Bellusci BA Hons (Geography and Environmental Management)

Environmental Scientist

SRK Consulting (South Africa) (Pty) Ltd.

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Please consider the environment before printing this e-mail.

From: Fana Sibanyoni <<u>fano.sibanyoni@gmail.com</u>>
Sent: Monday, 14 January 2019 09:34
To: Philippa Burmeister <<u>PBurmeister@srk.co.za</u>>; Romi Bellusci <<u>RBellusci@srk.co.za</u>>
Subject: Registration and comment

Good day,

Kindly find the attached registration and comment form.

Thank you

From:	Fana Sibanyoni <fano.sibanyoni@gmail.com></fano.sibanyoni@gmail.com>
Sent:	Monday, 24 December 2018 14:50
То:	Philippa Burmeister; Romi Bellusci
Subject:	Request electronic versions of the report

Good day,

Kindly assist by emailing me the electronic versions of the report.

Hope you will find the above in order.

Kind regards

Fana Sibanyoni NSM Environmental Projects NPO

From:	Philippa Burmeister
Sent:	Friday, 22 February 2019 09:37
То:	Romi Bellusci
Subject:	FW: Reminder: Sasol 2019 Postponement Application: Availability of the Draft Motivation Report &
	AIR for comment & details of the public open day
Attachments:	image001.wmz
_	

Importance: High

Philippa Burmeister (nee Emanuel) *PrSciNat, BSc Hons* Principal Environmental Scientist



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A Please consider the environment before printing this e-mail.

From: Rico Euripidou <rico@groundwork.org.za>
Sent: Friday, 15 February 2019 11:55 AM
To: Philippa Burmeister <PBurmeister@srk.co.za>
Cc: Tamaryn Hale <THale@srk.co.za>; Enviro3, SRK ZA <SRKZAenviro3@srk.co.za>
Subject: RE: Reminder: Sasol 2019 Postponement Application: Availability of the Draft Motivation Report & AIR for comment & details of the public open day
Importance: High

Dear Philippa

I am sorry for the belated comments – as we discussed we have been inundated with MES postponements applications recently all being finalised towards the same deadline, however thank you for the opportunity to submit some general comments on behalf of groundWork, Friends of the Earth South Africa which has been working on national Air Quality issues since its inception in 1999. In this short time available I have manged to look over and comment in general on the motivation reports provided.

As you know, postponement applications can only be granted if the geographical area within which the application is sought is in material compliance with the national ambient air quality standards for pollutant or pollutants being applied for. The Highveld and Vaal Priority Areas are both <u>NOT in compliance with the ambient air quality standards and for this reason alone this postponement applications by both SASOL and NATREF should be rejected by the National Air Quality officer.</u>

Also, we note that in terms of the Air Quality Act and regulations, the applications have to:

- 1) be submitted by 31 March 2019;
- 2) an atmospheric impact assessment has to be submitted;
- 3) public participation process concluded;
- detailed justification provided;
- 5) Furthermore SASOL and NATREF have to show that their current and proposed air emissions are not causing, and will not cause any adverse impacts on the surrounding environment;
- 6) Additionally SASOL and NATREF must also show they are in compliance with other emission limits but cannot comply with a particular pollutant or pollutants.
- 7) Finally both applications must demonstrate previous reduction in emissions of the said pollutant or pollutants, measures and direct investments implemented towards compliance with the relevant new plant standards.

Alternative standards can only be granted if

- (i) there is material compliance with the national ambient air quality standards in the area for pollutant or pollutants applied for^[1]
- (ii) or (ii) the Atmospheric Impact Report does not show a material increased health risk where there is no ambient air quality standard.

On the basis of points 1 above we submit that the MES postponements applications cannot and should not be even considered by the NAQO.

Furthermore the amended List of Activities also includes the following amendment specific to existing plants' compliance with new plant MES for SO₂:

dioxide (SO2)."

Amendment of Category 1 of the List Subcatagory 1.1 of Category 1 of the List is hereby amended by the addition of the following special arrangement under subparagraph (a): "(iii) Existing plants shall comply with a new plant emission standard of 1000 mg/Nm3 for sulphur

We point out that no

amendments to sub-category 1.1 of the List of Activities (which sets out the MES for solid fuel combustion installations), were included in the proposed amendments to the List of Activities for comment. We note further that the effect of this amendment doubles the permissible SO₂ emissions - from 500mg/Nm³ to 1000mg/Nm³ - in respect of existing plants that are solid-fuel combustion installations.

We have disputed – and continue to dispute - the legality of this amendment which was not the subject of public participation as required by section 57(2)(b) of the AQA, which specifically requires that any amendment made available for comment must "contain sufficient information to enable members of the public to submit meaningful representations or objections". In the circumstances, we have called upon the Minister of Environmental Affairs to withdraw this unlawful amendment, or face legal action.

Even before the unlawful amendment, South Africa's MES were already very weak, even compared to other developing countries. For instance, the previous SO₂ existing plant/2015 MES were 17.5 times weaker than those in China, Germany, and the European Union (EU), nearly 6 times weaker than India's, almost 5 times weaker than Indonesia's, and almost double as lax as Thailand's.^[2] The recent amendments would only serve to deepen this inequality and worsen the impacts of air pollution in South Africa, through effectively "doubling" the SO₂ MES limit (and making it twice as weak).

The primary reason provided by SASOL "for the application for postponement by SO is quite simply that sufficient time is required for both the retrofitting of the abatement technology and the process optimisation that has to follow to ensure that the abatement technology is effective in meeting the MES new plant standards". In this respect we submit that

SASOL and NATREF have had ample time to plan for and retrofit their respective plants since 2010 and more accurately since the negotiations for the MES began leading up to the promulgation of the MES.

Table 6-1 and Table 6-2: Proposed alternative emission limits for the postponement period requested for Steam Station 1 & Steam Station 2 request an almost doubling of the MES for NOx and PM.

In the SASOL application Table 6-3: Proposed alternative emission limits for the postponement period requested for the thermal oxidation plant – the alternative limits sought are in some case up to 60 times in excess than the MES – this is simply staggering and beggars belief that SASOL can demonstrate previous reduction efforts in emissions of the said pollutant or pollutants listed in this table.

We submit that SASOL and NATREFs emit very significant volumes of SO2 and NOx, in addition to PM. The overall findings of the AIR neglect the fact that SO2 and NOx, as primary pollutants, are also transformed through chemical and physical processes in the atmosphere, to secondary PM2.5. This formation contributes significantly to total ambient PM2.5. We submit that the dispersion models selected to assess the air quality impact must be capable of modelling both dispersion and chemical transformation (photochemical) processes, and should include the modelling of SO2 and NOx emissions.

As agreed please append our general comments to the final documents submitted to the DEA.

Sincerely

Rico Euripidou groundWork - Friends of the Earth South Africa 6 Raven Street P.O. Box 2375, Pietermaritzburg,3201 Tel: +27 33 342 5662 Fax: +27 33 342 5665 Web: www.groundwork.org.za

From: Philippa Burmeister [mailto:PBurmeister@srk.co.za]
Sent: 15 February 2019 10:02 AM
To: Rico Euripidou
Cc: Tamaryn Hale; Enviro3, SRK ZA
Subject: FW: Reminder: Sasol 2019 Postponement Application: Availability of the Draft Motivation Report & AIR for comment & details of the public open day
Importance: High

Dear Rico

Our discussions this morning refer,

I have consulted Sasol and Natref who have agreed to your request to submit comments today.

I also note that the links to the website I sent are working and that you have been able to access the documents.

Should you have any queries please do not hesitate to contact me.

Kind Regards

Philippa Burmeister (nee Emanuel) *PrSciNat, BSc Hons* Principal Environmental Scientist



SRK Consulting (South Africa) (Pty) Ltd.

Street Address: 2nd Floor Norfolk House, 54 Norfolk Terrace, Westville Postal Address: PO Box 1969, Westville, 3630

Tel: +27-(0)31 279 1200; Fax: +27-(0)86 734 1304 Mobile:+ 27-(0)83-651-3462; Direct:+ 27-(0)31 279 1233; Email: pburmeister@srk.co.za

www.srk.co.za

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🖨 Please consider the environment before printing this e-mail.

Dear Rico

Please try the links below to access the Sasol and Natref documents: <u>https://www.srk.co.za/en/za-sasol-2019-mes-postponement-applications</u> <u>https://www.srk.co.za/en/za-natref-2019-mes-postponement-applications</u>

If these don't work let me know and I will try sending you the documents using Dropbox or OneDrive.

As per our discussion I note you intend to submit comments today, I will petition Sasol/ Natref to include your comments in the comments and response.

Kind Regards

Philippa Burmeister (nee Emanuel) PrSciNat, BSc Hons Principal Environmental Scientist



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Tel: +27-(0)31 279 1200; **Fax**: +27-(0)86 734 1304 **Mobile**:+ 27-(0)83-651-3462; **Direct**:+ 27-(0)31 279 1233; **Email:** <u>pburmeister@srk.co.za</u>

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From: Rico Euripidou <<u>rico@groundwork.org.za</u>> Sent: Tuesday, 12 February 2019 4:05 PM To: Enviro3, SRK ZA <<u>SRKZAenviro3@srk.co.za</u>> Subject: FW: Reminder: Sasol 2019 Postponement Application: Availability of the Draft Motivation Report & AIR for comment & details of the public open day Importance: High

Dear Tamaryn

Please register groundWork as an I&AP for this process. Please outline the key dates for submitting comments and please email me these documents as I can't seem to access them online.

Kind regards

Rico Euripidou groundWork - Friends of the Earth South Africa 6 Raven Street P.O. Box 2375, Pietermaritzburg,3201 Tel: +27 33 342 5662 Fax: +27 33 342 5665 Web: www.groundwork.org.za

From: SRK Stakeholder Engagement [mailto:SRKZAenviro3@StakeholderEngagement.srk.co.za]
Sent: 10 January 2019 04:31 PM
Subject: Reminder: Sasol 2019 Postponement Application: Availability of the Draft Motivation Report & AIR for comment & details of the public open day

Dear Stakeholder

A reminder that comments on the Draft Motivation Report and Atmospheric Impact Report opened on the 7 January 2019 and will close on the 6 February 2019.

Please find enclosed details of how to access and comment on the Draft Motivation Report and Atmospheric Impact Report for Sasol's operations in Sasolburg.

To access the documents on SRK's website follow the following link: <u>https://www.srk.co.za/en/za-sasol-2019-mes-postponement-applications</u>

To submit comments online use the following link: https://arcg.is/H05W9

Finally, included in the notices please also find details of the public open days.

Should you have any queries please do not hesitate to contact SRK at the details provided in the notification.

Kind regards, Tamaryn Hale *Environmental Scientist BSc Hons Environmental Science*

SRKConsulting (South Africa) Pty Ltd. Norfolk House54 Norfolk Terrace Westville 3630 P O Box 1969, Westville 3630 SouthAfrica **Tel:** 031 279 1200;**Fax:** 086 530 2683 **Email:** <u>SRKZAEnviro3@srk.co.za</u> <u>www.srk.co.za</u>

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REGISTRATION AND COMMENT SHEET

JANUARY 2019

Please provide your contact details to register as an Interested and Affected Party to the SRK Consulting Stakeholder Engagement team (see details below)

CONTACT DETAILS

TITLE	MS FIRST NAME	CAROL	
INITIALS	C. C. SURNAME	MATHONSI	
ORGANISATION	COCASE SA (PTY) LT	D / CWM.	
POSTAL ADDRESS	8 PRELUSE AVENUE		
POSTAL ADDRESS	GROWN MINES.	POSTAL CODE	2001
LAND LINE TEL NO	5 A	CELL NO	0442501090
FAX NO	C	EMAIL	cocaceos agmail.com

REGISTRATION AS AN INTERESTED AND AFFECTED PARTY (I&AP) (please mark applicable box with X)

	register me as an intereste notifications during the Pe			irther
		I would like my notifica	tions by:	
E-mail: coca	ce 03@ gmail-confett	er:	Fax/Tel:	SMS:
	l would lik	e to receive documents fo	r comment as follows:	
Email:	\checkmark	Paper copies:		CD:
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Project: 526577: Sasol Postponement Application

January 2019

REGISTRATION AND COMMENT SHEET

JANUARY 2019

Please provide your contact details to register as an Interested and Affected Party to the SRK Consulting Stakeholder Engagement team (see details below)

CONTACT DETAILS

TITLE	M 🖉 FIRST NAME	LEBO	JEFFREY	
INITIALS		MAKOf	ANE	
ORGANISATION	LJ AND MAK	HOLDING	S	
POSTAL ADDRESS	2376 EXT7			
POJIAL ADDRESS	Embalenhie	POSTAL CODE	2285	
LAND LINE TEL NO	+27713794811	CELL NO	0799316895	
FAX NO		EMAIL	Lebohdiman@gmail	(0)

Please formally register me as an interested and aff information and notifications during the Postponem			urther	YES	NO
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	ive documents for	comment as follows:			
Email: lebohdinan@gmainion Paper	copies:		CD:		
In terms of GNR 543 (EIA regulations) I disclose bel have in the approval or refusal of the application:	ow any direct bus	iness, financial, persona	al or othe	er interest that I	may

Comments (Us	se a separate she	et if you wish to)			
heip Stisol to require my product Fuel treatme of would be glady is I HAVE THE SOLUTION & Philippa Postal Addre Fa	Hierry Prop I aver 1 Burmeister / Ro ss: PO Box 1969 el: +27(0)31 279 ix: +27(0)31 279	ike to be mi Bellusci , Westville, 3630	She		use eg Iurilan
 Please note that by registering as an I&AP you cover the receiving further communications regarding the the relevant personal information being stored in the event that an appeal is lodged, that the need to be submitted to a third party; and that the personal information will be utilised with the application and any appeals should the THANK YOU NAME: 	e postponement l on an I&AP data e I&AP database for notifications r	base; and the personal inforr elated to Public Partici			ociated
Project: 526577: Sasol Postponement Application	spales	On		January 2	

REGISTRATION AND COMMENT SHEET

JANUARY 2019

Please provide your contact details to register as an Interested and Affected Party to the SRK Consulting Stakeholder Engagement team (see details below)

CONTACT DETAILS

TITLE	Mr FIRST NAME Kho ha
INITIALS	SURNAME Mathlangu
ORGANISATION	Environmental Monitors O
POSTAL ADDRESS	
POSTAL ADDRESS	POSTAL CODE
LAND LINE TEL NO	CELL NO
FAX NO	EMAIL

		and affected party (I&AF tponement Application p		e further	YES	NO
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wind blowing to Embalenthle. BEAT No benzene ambient monitoring (DEA or Sasol). Surve Dioxide - last year to May and August high pollution also PMZ.S J+PMIO -Contributions of the mining belt

REGISTRATION AND COMMENT SHEET

OCTOBER 2018

Please provide your contact details to register as an Interested and Affected Party to the SRK Consulting Stakeholder Engagement team (see details below)

CONTACT DETAILS

TITLE	MR FIRST NAME	FANA ISAAC	
INITIALS	F.T. SURNAME	SIBANYONI	145
ORGANISATION	NSM ENVIRON	NMENTAL PROJECTS (NP	\mathcal{O}
POSTAL ADDRESS	STAND 1887	EXTENSION OU	
POSTAL ADDRESS		POSTAL CODE 2285	
LAND LINE TEL NO	N/A	CELL NO 081779 1394	ē
FAX NO	NIA	EMAIL -fano, Sibanyoni @3	mail.com

Please forma information a	lly register me as nd notifications	s an interested and af during the Postponen	fected party (I&AP nent Application p) so that I may receive process	e further	^{yes} X	NO
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* We has as the community have concern about Why SASOL does not include us in these environmental issues cause we have opinion's and suggestion which can essist in this environmental Issue before they close their door in or before this left 32 years of SASOC existance. * WE ARE AWARE THAT SASOG is moving business to U.S.A (TEXAS) AND THIS ONE IN SOUTH AFRICA IS CLOSing Very SOON IN THE NEXT COMING YEARS. * WE ARE OBJECTING/ OPPOSING THIS POSTPONEMENT AND NEED SASOL TO COMPLY AND START SPENDING THAT PROFITS TO FIX THIS BASOL PLANTS AND STOP INVESTING TO THE NEXT NEW PLANT IN U.S.A.

REGISTRATION AND COMMENT SHEET

OCTOBER 2018

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CONTACT DETAILS

TITLE	MR	FIRST NAME	SKHAKHA DA	ANIEL	1
INITIALS	SD	SURNAME	SIBEKO		1
ORGANISATION	MSM	EUNTRONMEN	ITAL PROJECT	۲ <u>ج</u>	1
POSTAL ADDRESS		26625 EXT			
TOSTAL ADDRESS			POSTAL CODE	0085	
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FAX NO	A/IN		EMAIL	Skhakna.d.Sibeko@	h mail.com

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too know that Sasol deesn't want to comply. 2010 Meeting Sustainable energies utilies programme quoted Noted minutes Marinuis Niemand queried required compliance spend and if it couldn't be better spent. Minutes also state that they will plan to wait for the end of plant life to implement improvements.

	ail all poster postponement of certain nt: air quality act minin				NTAL
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Please provide your	r contact details to register a Stakeholder Engagei	s an Interested and Affe nent team (see details b		the SRK Consu	lting
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PTO ----

Request for Sasol to build a Hospital for TB & a
general " " Savoi to build a Hospital for
- What is the lifespan of Sarol? 2050 - What is the community contribution To juto the Montaina Station
- Community has their dust bucket sponsored by ground. hunc. The result are different from those of monitoring stations. Why here responded.
take readings out the monitoring stations - involvement in monitoring
- Patrick Dung received trained on new environmental legislations and moraitoring. Maybe link him up with the monitoring specialists
- How sure can we be that the H2S smell does not make us fick?
- Where does the waste from the tanks go to? Suspicion that it is washed into the local dams. Eq. gypatim.

08:45 (3 minutes ago)

Dear Mzwakhe,

- 11 - 1**2**

As discussed, forwarded to you are some issues I think we need to focus on in engaging Sasol.

EFFECTIVE AWARENESS CAMPAIGNS.

1. An effective Campaign must include the following:

1.1. Truth.

- Attempts to conceal truth about real health hazards of pollutants on humans and the negative effect on the environment and vegetation must be avoided.

- Toxicity of pollutant with clear and truthful information on levels of concentrations at which it becomes toxic and dangerous.

- Flammability levels of pollutant like Hydrogen Sulfide (H2S).

1.2. Clear definition and characteristics of the pollutant (cause of pollution),

- Both scientific and common names of Pollutant must be given.

- Prevalence of Sulfur as a chemical element thar is present in all living tissues.

1.3. Clear identification of the sources of pollution.

Examples : Natural, Industrial, Human, etc.

1.4. Truthful and researched information on the effect of the pollutant to humans, the environment and vegetation.

Example: Hydrogen sulfide (H2S) and Sulfur Dioxide (SO2) and their effect and threat on human health, animal health, and plant life.

- The sense of smell (Olfaction) ; extreme discomfort such as eyes and throat irritation; respiratory paralysis and even death at very high

concentrations; deep depression; aggression that is incredibly hard to control

Example: (a) Paralyzing effect on sense of smell by H2S at higher concentrations above 225mg/m3 or 150ppm.

(b). Effect on the nervous system of H2S and SO2 intoxication in their acute form.

2. Questions to be answered are the following:

2.1. Are the awareness campaigns of Sasol addressing the abovementioned matters?

2.2. Are workers and surrounding communities aware of the real effects of the pollutants like H2S and SO2?

2.3. What tangible off-set Programmes are available and how are these impacting on communities, and what business and training opportunities the pollution challenge presents?

Kind regards Jacob Mabena

× 4

REGISTRATION AND COMMENT SHEET

OCTOBER 2018

Please provide your contact details to register as an Interested and Affected Party to the SRK Consulting Stakeholder Engagement team (see details below)

CONTACT DETAILS

TITLE	MR FIRST NAME	FANA TE	SAAC	
INITIALS	F.T SURNAME	SIBANYO	SIBANYONI .	
ORGANISATION	NSM ENVIRONMENTAL PROJECTS (NPC)			
POSTAL ADDRESS	STAND 1887 EXTENSION OU			
PUSTAL ADDRESS		POSTAL CODE	2285	
LAND LINE TEL NO	N/A	CELL NO	081779 1394	
FAX NO	NIA	EMAIL	fano, sibanyoni@gmail.cor	

			and affected party (I&AP tponement Application p) so that I may receive furthe rocess	er YES X NO
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			Address: PO Box 1969	9, Westville, 3630	
			Tel: +27(0)31 279 Fax: +27(0)31 279		
		Email: pl	ourmeister@srk.co.za/		
Please note	that by regist	tering as an I&AP	you consent to:		
 the rele 	vant personal	l information being	rding the postponement stored on an I&AP dat	abase;	
		appeal is lodged, I to a third party; a		and the personal information	ion contained therein may
				related to Public Participat	ion processes associated
with the	application a		hould they be lodged.	ONTRIBUTION	
NAME: F.	ANA S	BIBANYO		Sibanyoni	DATE: 10/01/2019
Project: 52657	: Sasol Postponem	ment Application		~	October 2016

REGISTRATION AND COMMENT SHEET

OCTOBER 2018

Please provide your contact details to register as an Interested and Affected Party to the SRK Consulting Stakeholder Engagement team (see details below)

CONTACT DETAILS

TITLE	MR FIRST NAME	KHEHLA EI	KHEHLA ELIAS	
INITIALS	K.E SURNAME	MAHLANG		
ORGANISATION	ENVIRONMENTAL MONITORS (NPO)			
POSTAL ADDRESS	STAND 919 EXTENSION 2			
		POSTAL CODE	2285	
LAND LINE TEL NO	N/A	CELL NO	0796702708	
FAX NO	NIA	EMAIL	khehlamahlonguZ@wel	

APPLICATION FOR POSTPONEMENT OF CERTAIN REQUIREMENTS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT: AIR QUALITY ACT MINIMUM EMISSION STANDARDS, FOR SASOL SOUTH AFRICA (PTY) LTD OPERATIONS IN SECUNDA

REGISTRATION AND COMMENT SHEET

OCTOBER 2018

Please provide your contact details to register as an Interested and Affected Party to the SRK Consulting Stakeholder Engagement team (see details below)

CONTACT DETAILS

TITLE	MR	FIRST NAME	SKHAKHA D	ANIEL
INITIALS	SD	SURNAME	SIBEKO	
ORGANISATION	MSM	ENVIRONM	ENTAL PROJEC	TS
POSTAL ADDRESS		26625 EX	and the second	
POSTAL ADDRESS			POSTAL CODE	2285
LAND LINE TEL NO	n/A		CELL NO	073 949 0861
FAX NO	N/A		EMAIL	Sknakna. d. Sibeko@gm

REGISTRATION AS AN INTERESTED AND AFFECTED PARTY (I&AP) (please mark applicable box with X)

Please formally regi information and not	ster me as an inte ifications during	erested and aff the Postponen	fected party (I&AP nent Application p) so that I may receive fi rocess	urther	YESX	NO				
		l wou	ld like my notifica	tions by:							
E-mail:		Letter:		Fax/Tel:	SIV	1S:					
I would like to receive documents for comment as follows: Email: X Paper copies: CD: In terms of GNR 543 (EIA regulations) I disclose below any direct business, financial, personal or other interest that I may have in the approval or refusal of the application: As the interested and offected party T am opposing this SASOL Request Comments (Use a separate sheet if you wish to) Your presentation About Air pollution always put brame on us community , but we all know that SASOL is the main polluters and T am proposing this SASOL with a SASOL Should accept that they don't comply and must build big hospital for us on get a large land for cententry for us. Philippa Burmeister / Romi Bellusci Postal Address: PO Box 1969, Westville, 3630 Tel: +27(0)31 279 1200 Fax: +27(0)31 279 1204 Email: pburmeister@srk.co.za / rbellusci@srk.co.za Please note that by registering as an I&AP you consent to: • receiving further communications regarding the postponement application process; • in the event that an appeal is lodged, that the I&AP database: • in the personal information will be utilised for notifications related to Public Participation processes associated with the application and any appeals should they be lodged.											
Email:	×	Paper	copies:		CD:						
I would like to receive documents for comment as follows: Email: X Paper copies: CD: In terms of GNR 643 (EIA regulations) I disclose below any direct business, financial, personal or other interest that I may have in the approval or refusal of the application: As the interested and offected party I am opposing this SASOL Request; Comments (Use a separate sheet if you wish to) Nour presentation doubt of pollution always purt blame on us roomdnity, but use all know that SASOL is the main pollutes and I am proposing that SASOL is the main pollutes and I am proposing that SASOL Should accept that they don't comply and must build big hospital for us ond get a large land for cementry for us. Philippa Burmeister / Romi Bellusci Postal Address: PO Box 1969, Westville, 3630 Tel: +27(0)31 279 1200 Fax: +27(0)31 279 1204 Email: pburmeister (%) database; In the event that an appeal is lodged, that the I&AP database; In the vent that an appeal is lodged, that the I&AP database; In the vent that an appeal is lodged, that the I&AP database; In the event that an appeal is lodged, that the I&AP database; In the event that an appeal is lodged, that the I&AP database; In the event that a											
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Surname	First Name/s /amagam a okuqala/ Lebitso la	ion/ Inhlangan	Do you wish to formally register as an Interested and Affected Party (I&AP) in order that further information and notifications can be sent to you during the process / Uyafisa ukubhalisela ukuba kuhlaka lwezinxaka ezithintekayo nezifisa ukuba yingxenye yomsebenzi (I&AP) Ukuze uthole ulwazi lwephrojekthi kanye nezaziso/ Na u lakatsa ho ngolisa ka molao e le Motsoalle ea Thahasellang le ea Amehileng (I & AP) e le hore tlhahisoleseding e eketsehileng le	Please indicate which of Sasol operations you are interested in/ Sicela ukhombise iyiphi imisebenzi yakwaSasol onentshisekelo ngayo/ Ka kopo bonts'a hore na ke mesebetsi efe ea Sasol eo u e
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How would you prefer to receive notifications? / Ufisa ukuthola kanjani ulwazi oluthinta Phrojekthi ? / U ka rata ho fumana	How would you like to receive documents for review? / Ufisa ukuthola kanjani usomqulu noma izincwadi ukuze uzibuyekeze? / U ka rata ho fumana litokomane tsa	Number/Nomor o ea Khokahano/ izinombolo	Number/Nomo ro ea Khokahano/	Number/ Nomoro ea fax/ Inombolo yakho	Imeyili	Email Address/ Aterese ea imeile/ i- Imeyili yakho	In terms of GNR 543 (EIA regulations) please disclose below any direct business, financial, personal or other interest that you may have in the approval or refusal of
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sms	hardcopy	796702708		7.97E+08		khehlama	nlangu2@webmail.co.za
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business	None at this time	11/10/2018 14:57	11/10/2018 14:57	30.91535	-29.8334
business	Test 2 NEMT	12/10/2018 06:47	12/10/2018 06:47	30.91518	-29.8337
other	none	12/10/2018 07:06	12/10/2018 07:06	30.91535	-29.8333
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personal		17/10/2018 13:14	17/10/2018 13:14	0	C
personal	I work for Sasol but would like to be part of this process	17/10/2018 17:28	17/10/2018 17:28	0	C
personal		17/10/2018 17:58	17/10/2018 17:58	29.11524	-26.4587
business		18/10/2018 19:59	18/10/2018 19:59	28.91764	-26.3717
personal	Concern about the quality of air that is affected by Sasol	24/12/2018 12:37	24/12/2018 12:37	0	C
	Concern about the accurate reports issued by Sasol regarding				
personal	the air pollution they do to our air	24/12/2018 12:42	24/12/2018 12:42	0	C
personal	Concerned about true reports that Sasol is offering us	24/12/2018 12:54	24/12/2018 12:54	0	C
business		04/02/2010 06:05	04/02/2019 06:05	20 10216	-26.9053

Appendix 2: Public Meeting Attendance Registers

DATE: 22 January 2019

VENUE: Sasol Secunda Recreational Club

			ATTENDANCE REGISTER	SISTER	
TITLE	NAME	ORGANISATION	POSITION	CONTACT DETAILS	SIGNATURE
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DATE: 22 January 2019

VENUE: Sasol Secunda Recreational Club

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TITLE	NAME	ORGANISATION	POSITION	CONTACT DETAILS	SIGNATURE
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Mrs	V.J. Groblar	500	JNR Accountant	EMAIL: Volerie Grobler 20 Sasel. corr	PErchler.
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DATE: 22 January 2019

VENUE: Sasol Secunda Recreational Club

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DATE: 22 January 2019

VENUE: Sasol Secunda Recreational Club

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DATE: 22 January 2019

VENUE: Sasol Secunda Recreational Club

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DATE: 22 January 2019

VENUE: Sasol Secunda Recreational Club

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DATE: 22 January 2019

VENUE: Sasol Secunda Recreational Club

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