




# ANNUAL AIR QUALITY REPORT



MOKOLO CROCODILE WATER AUGMENTATION PROJECT PHASE 2 (MCWAP-2)  
ENVIRONMENTAL BASELINE AIR QUALITY - ANNUAL MONITORING REPORT.



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## EXECUTIVE SUMMARY

Environmental Assurance (Pty) Ltd. (hereafter referred to as ENVASS) has been appointed by GIBB Bigen Nyeleti Joint Venture (hereafter referred to as GBN-JV) to design, implement and maintain a monthly Air quality compliance monitoring programme related to the Phase 2 Mokolo Crocodile Water Augmentation Project (MCWAP-2). The monitoring is implemented as baseline monitoring along the proposed pipeline construction route (**hereafter referred to as “the proposed development”**), which is planned to stretch from the Vlieepoort Mountains, west of Thabazimbi, to Medupi and Matimba Power Stations situated between Steenbokpan and Lephalale, Limpopo Province. The monthly passive sampling comprised of gravimetric dust fallout monitoring, as well as Particulate Matter (PM) monitoring at three (3) predetermined localities. The identified localities were monitored on a monthly basis for data collection and interpretation in order to determine possible impacts related to the proposed construction activities, as well as to serve as a baseline condition for monitoring programme refinement as the project progresses.

This report communicates the annual baseline air quality monitoring and results conducted within April 2021 to March 2022. All monitoring was conducted according to recognised standards and sent to a South African National Accreditation System (SANAS) accredited laboratory for analysis as further described in this report.

The following findings pertain to the April 2021 to March 2022 air quality monitoring:

- During the annual period, the majority of sampling localities recorded low dust fallout levels;
- The Residential limit (Limit of 600 mg/m<sup>2</sup>/day) was recorded thirty-three (33) times during the annual period across sixteen (16) different localities with locality DB86 and DB99 presenting the most frequent exceedances .
- The Industrial limit (Limit of 1200 mg/m<sup>2</sup>/day) was exceeded twelve (12) times during the annum across four (4) different localities with locality DB87 recording the majority of the exceedances during the annum (eight of the twelve).
- The alert limit (limit of 2400 mg/m<sup>2</sup>/day) was exceeded once (1) within the annum at DB87 during the November 2021 to December 2022 monitoring period.
- The localities which recorded exceedances during the annual period are all situated in close proximity to active dirt roads which will be the primary source of the excess dust fallout levels.
- All E-sampler localities (ES01 (School), ES02 (Eskom - Medupi Power Station) and ES03 (Mooivalei) recorded general low and relatively constant daily PM10 readings with some influences (peaks) noted.
- The dominant wind direction recorded during the annual period originated from the north and to a lesser extent from the north-northeast. Wind speeds recorded an average between 1.0 m/s and 2.2 m/s.

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## GLOSSARY

A list of commonly used acronyms, measurement units and definitions are included below for the purpose of ensuring uniformity in the interpretation of this report.

ACRONYMS	
ASTM	American Society for Testing and Materials
CEMP <sub>r</sub>	Construction Environmental Management Programme
DFFE	Department of Forestry, Fisheries and the Environment (Previously known as DEFF)
ENVASS	Environmental Assurance (Pty) Ltd
GBN-JV	GIBB Bigen Nyeleti Joint Venture
NEMA	National Environmental Management Act: Act 109 of 1998.
NEM:AQA	National Environmental Management: Air Quality Act 39 of 2004
PM <sub>10</sub>	Particulate Matter of less than 10 microns in diameter
SANS	South African National Standards

MEASUREMENT UNITS	
mg/m <sup>2</sup> /day	Milligram per square meter per day
PPM	Parts per million
µg/m <sup>3</sup>	Microgram per cubic meter

DEFINITIONS	
Ambient air	Outdoor air in the troposphere, excluding air regulated by the relevant national legislation, where air quality is determined in accordance with this standard.
ASTM D1739	Standard test method for the collection measurement of dust fall (settleable particulate matter).
Average period	Period of time over which the average value is determined.
Dust fallout monitoring programme	Means monitoring of gravimetric dust fallout on a continuous basis.
Monthly basis	Period of 30 days (±2 day) as specified by ASTM D1739.
National Dust Control Regulations	Means the National Dust Control regulations, 2013, as published in the Government Gazette (No. 36974) of 1 November 2013 in terms of the National Environmental Management: Air Quality Act 39 of 2004.
Non-residential area	Means any area not classified for residential use as per local town planning scheme.
Residential area	Means any area classified for residential use in terms of the local town planning scheme.
SANS1929: 2011	South African National Standards, Ambient Air Quality – limits for common pollution.

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## 1. INTRODUCTION

Environmental Assurance (Pty) Ltd. (ENVASS) was appointed by GIBB Bigen Nyeleti Joint Venture (GBN-JV) to undertake the environmental air quality baseline monitoring programme of the Mokolo Crocodile Water Augmentation Project Phase 2 (MCWAP-2) project. The monitoring is implemented based on the proposed construction pipeline associated with the increased water demand required within Lephalale to coal-fired power stations, where water will be transferred from the Crocodile River (West) to the Steenbokpan and Lephalale area. The project infrastructure includes:

- Water Transfer Infrastructure:
  - Vlieepoort abstraction weir and pump station;
  - Low lift rising main;
  - Balancing dams and desilting works;
  - High-lift pump station;
  - High-lift rising main;
  - Break pressure reservoir;
  - Gravity pipeline;
  - Operation reservoir;
  - Electrical infrastructure; and
- Borrow pits for sourcing of construction material.

The annual air quality monitoring consisted of one hundred (100) gravimetric dust fall-out monitoring localities and three (3) remote particulate matter E-Samplers sites. The scope of work (SoW) performed is aligned to the Tender Document Requirements (Reference: MCWAP2: CONTRACT 2A-C-122-8.9).

## 2. BACKGROUND

The project area is located within the Limpopo Province (Waterberg District Municipality) and stretches from the Thabazimbi to Lephalale Local Municipalities. The climate is classified as semi-arid with precipitation generally present during the summer season at a maximum from November to March. The current ambient air quality profile is affected through residential traffic on the associated dirt roads, farming and agriculture activities. Planned sources of air pollution from the pipeline construction included as a minimum, infrastructure and equipment use:

- Tracked machinery and equipment;
- Heavy mobile vehicles;
- Dump trucks;
- Haul trucks;
- Light motor vehicles;
- Access roads.

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### 3. LEGISLATIVE CONTEXT AND REFERENCES

Section 28 of the National Environmental Management Act (NEMA, Act 107 of 1998) places a duty of care on any person causing, has caused or may cause significant pollution or degradation of the environment to take reasonable measures to prevent such pollution or degradation from occurring, continuing, or, insofar as such harm to the environment is authorised by law or cannot be reasonably avoided or stopped and rectify such pollution of the environment.

The measures required in terms of subsection (1) may include measures to:

- Investigate, assesses and evaluate the impact on the environment,
- Inform and educate employees on the environmental risk of their work and the manner in which tasks must be performed in order to avoid causing significant pollution or degradation of the environment;
- Cease, modify or control any activity or processes causing pollution or degradation;
- Contain or prevent the movement of pollutants or the cause of degradation;
- Eliminate any source of pollution or degradation; or
- Remedy the effects of pollution or degradation.

The National Environmental Management: Air Quality Act (Act no. 39 of 2004) (AQA) was developed to give effect to NEMA in order to update air quality legislation to comply with general environmental policies and to ensure that the legislation is in line with local and international standards on air quality and air quality management practices. The main objectives of the act are to:

- Enhance and protect air quality;
- Provide reasonable measures and steps to prevent pollution or environmental degradation; and
- To secure sustainable environmental development in conjunction with economic and social development.

In terms of the AQA certain activities and industries, including mining, have the responsibility to:

- Comply with any relevant standards or bylaws;
- Comply with relevant emission standards;
- **Comply with the Minister's requirement for the implementation of a pollution prevention plan in respect of a substance declared as a priority air pollutant;**
- **Comply with an Air Quality Official's legal request for impact reports;**
- Taking reasonable steps to prevent the emission of any offensive odour caused by any activity on their premises.

Guidelines provide a basis for protecting public health from the adverse effects of air pollution and for eliminating or reducing to a minimum, those contaminants of air that are known or likely to be hazardous to human health and well-being (WHO, 2000). The South African Bureau of Standards (SABS), in collaboration with DEA, established ambient air quality standards for criteria

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pollutants. The National Ambient Air Quality Standards (Republic of South Africa, 2009a and 2012) provide standards for ambient air quality in terms of criteria pollutants and permitted frequency of exceedances.

## 4. PURPOSE

The purpose of this assessment is to determine the baseline ambient air quality of the proposed development area. The baseline air quality assessment will measure the current ambient air quality before commencement of construction. The compliance monitoring is based on a pro-active approach to assess air quality on a continuous basis, by measuring the air quality levels.

Generated dust can become a nuisance (or health risk) when it is not properly managed and mitigated. Dust can be a concern to the surrounding land users and receiving environment and it is therefore important to determine the potential of dust generated by the activities.

This report is structured to include the following:

- Purpose / Objective of the study;
- Scope of Work / terms of reference;
- Description of methodologies utilised;
- Limitations and assumptions;
- Results from the baseline results; and
- Summary of findings and recommendations.

This report also aims to give effect to the requirements and legislation as promulgated in South Africa. Please refer to Section 2 for detailed legislative requirements for the study. Key aspects for the purpose of this document is to:

- Describe baseline air quality conditions and how they could be affected;
- Raise relevant air quality concerns of the proposed project; and
- To recommend, based on the conditions, preventative measures for implementation once the activity commences.

## 5. METHODOLOGY

### 5.1 SITE ESTABLISHMENT AND SCOPE OF WORK

An initial desktop site assessment was conducted to determine suitable locations regarding the air quality baseline assessment in conjunction with GBN-JV representatives. The result of the desktop study was the identification of areas to provide a holistic baseline condition of the overall pipeline and associated extent.

Site establishment was implemented in February 2021 followed by monthly passive dust monitoring, while active indicative was initiated during July 2021.

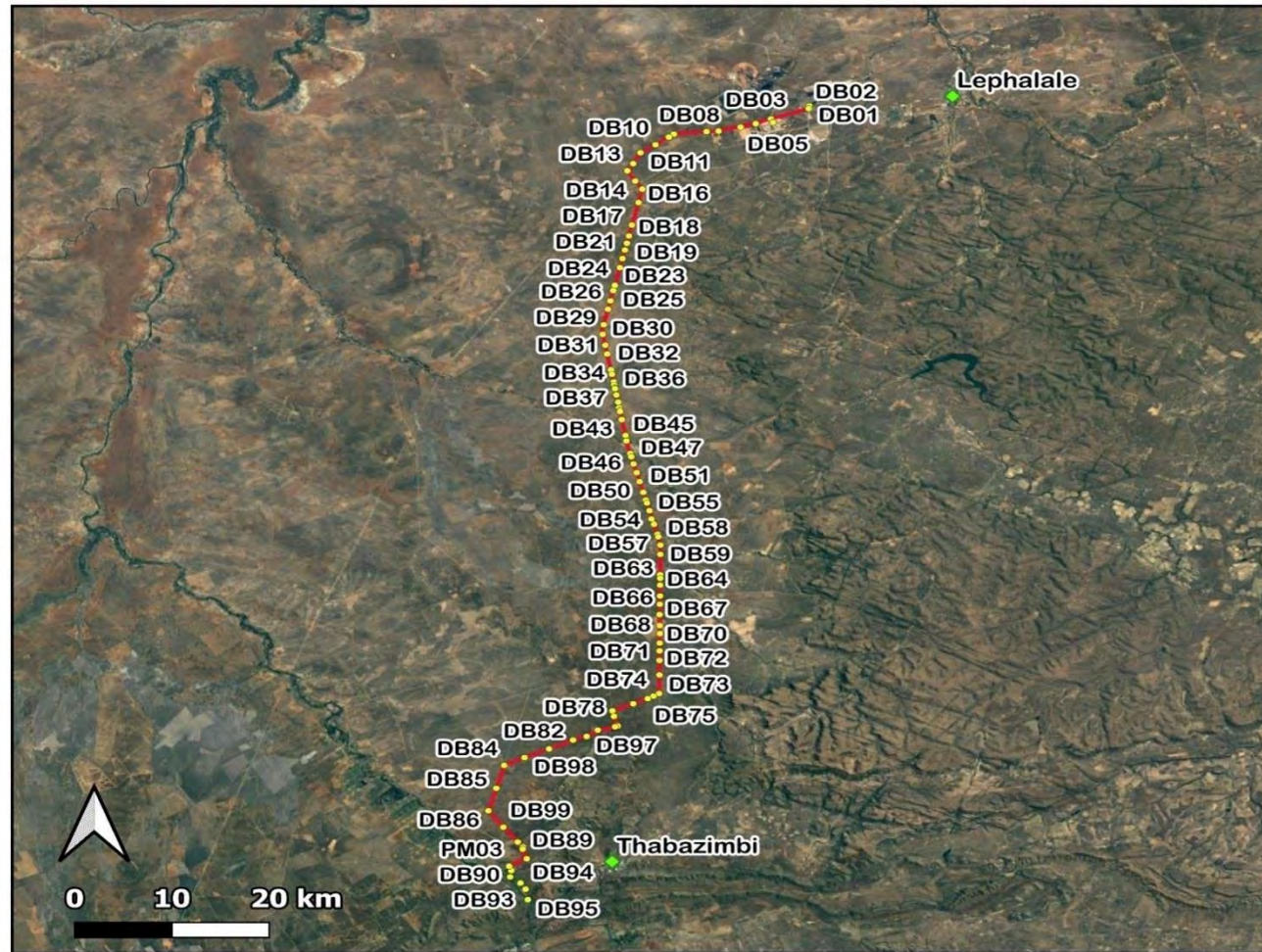
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Sampling occurred as per the scope of work at the identified sampling localities (100 in total) presented in Table 1 and Figure 1 to Figure 3.

Table 1: Monitoring Resources and Sampling Frequencies

Description	Locality Count	Monitoring Frequency
Dust Stand Monitoring Points: <ul style="list-style-type: none"> <li>• Along Pipeline Alignment;</li> <li>• Selected positions at the Weir, Balancing dams, Break Pressure Reservoir and Points of Supply;</li> <li>• Monitoring Weirs;</li> <li>• Along Gravel Access Roads;</li> <li>• Borrow Pits and Spoil Areas; and</li> <li>• Sensitive Receptors.</li> </ul>	100	Monthly
PM10 E-Sampler <ul style="list-style-type: none"> <li>• Kesarona Primary School, Eskom - Medupi Power Station &amp; Balancing Reservoir</li> </ul>	3	Monthly

# GIBB Bigen Nyeleti Joint Venture (GBN-JV) - Air Quality Monitoring Programme



## Legend

- ◆ Towns
- Pipeline
- Air Quality Monitoring Points

"Your Partner in Calculating Environmental Solutions"



Project: 244-20\_21  
Map by: Richard Viljoen  
Date: 11/02/2021  
Coordinate System: EPSG 3857

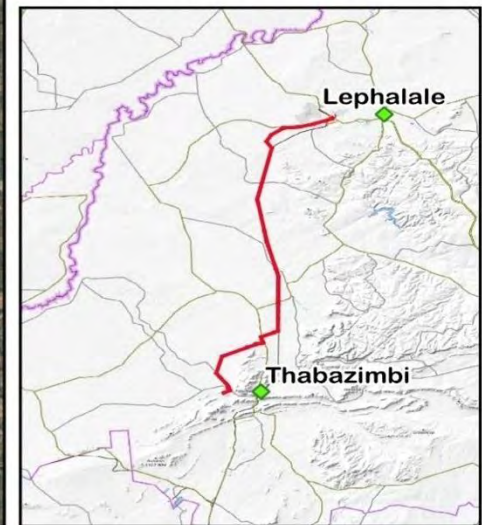


Figure 1: GBN-JV Air Quality Monitoring Localities

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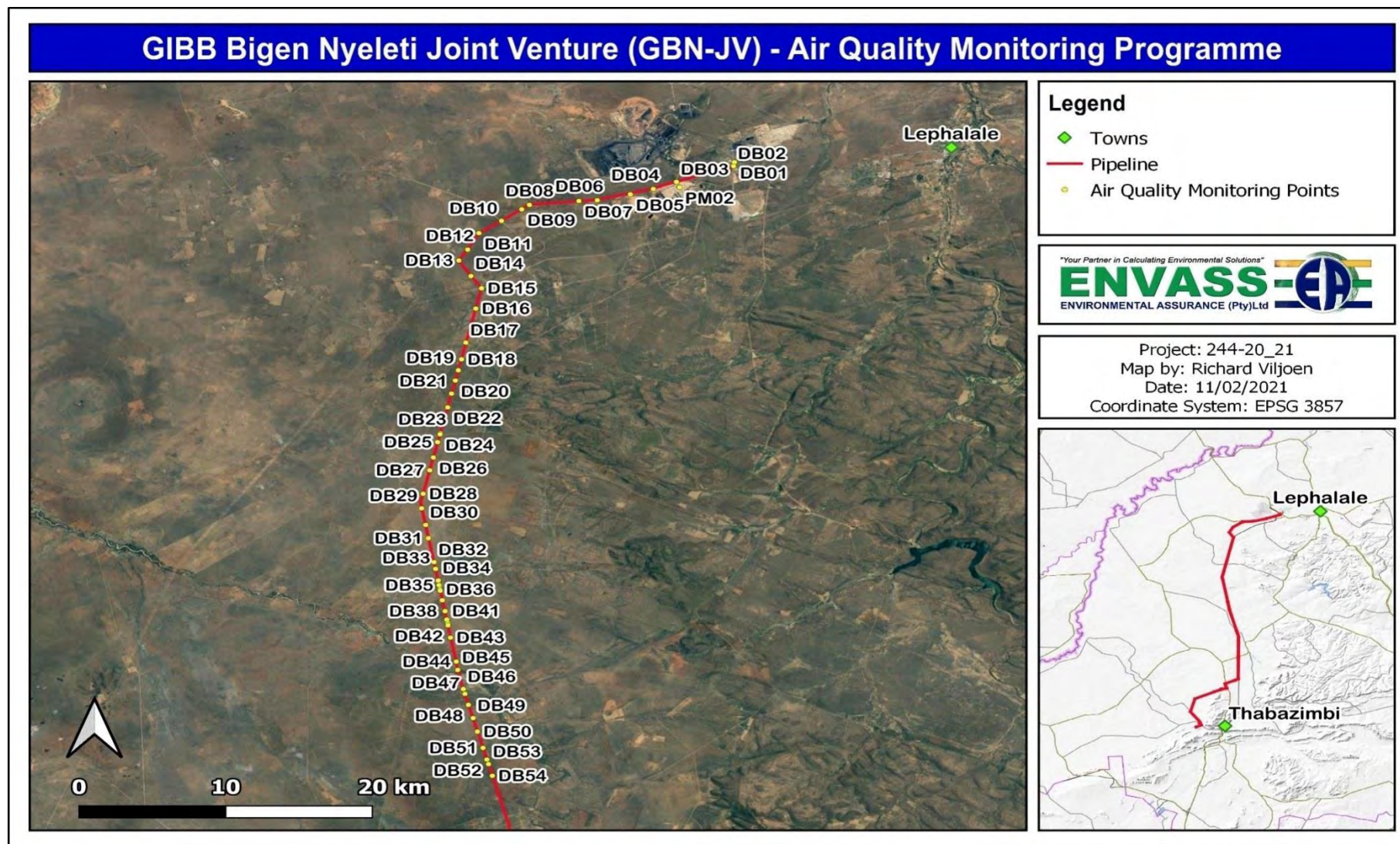
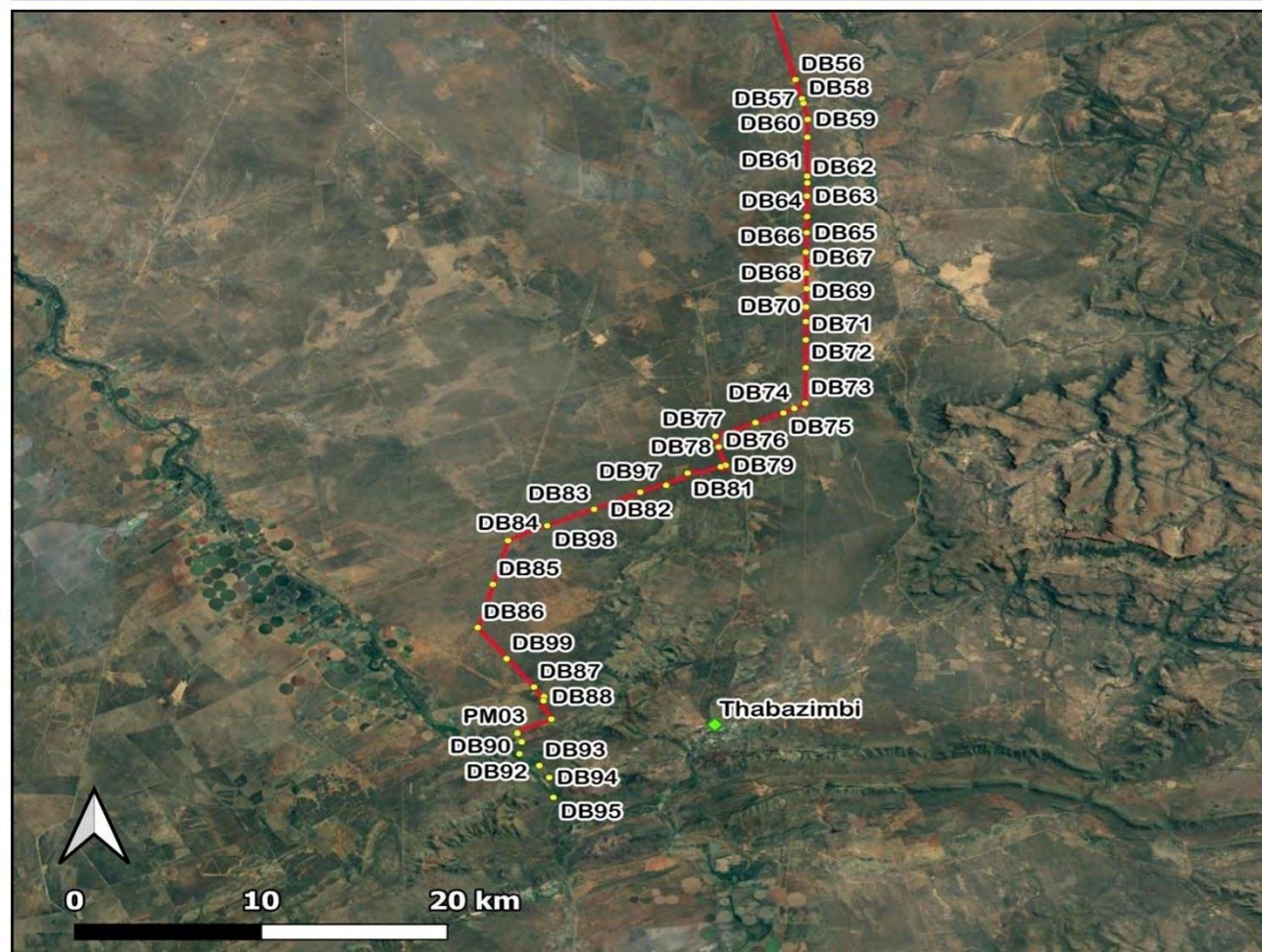


Figure 2: GBN-JV Air Quality Monitoring Localities (Northern Region)

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## GIBB Bigen Nyeleti Joint Venture (GBN-JV) - Air Quality Monitoring Programme



### Legend

- ◆ Towns
- Pipeline
- Air Quality Monitoring Points



Project: 244-20\_21  
 Map by: Richard Viljoen  
 Date: 11/02/2021  
 Coordinate System: EPSG 3857

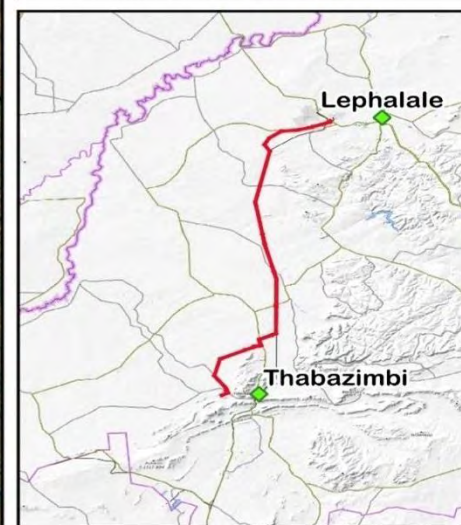


Figure 3: GBN-JV Air Quality Monitoring Localities (Southern Region)

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## 5.2 ACTIVE INDICATIVE MONITORING

The Met One Instruments, Inc. model E-Sampler is a type of nephelometer that automatically measures and records real-time airborne PM<sub>10</sub>, PM<sub>2.5</sub>, or TSP particulate concentration levels using the principle of forward laser light scatter. In addition, the E-Sampler has a built-in 47 mm filter sampler which can optionally be used to collect the particulate for subsequent gravimetric mass or laboratory evaluation.

### Laser Light Scatter System

Sample air is drawn into the E-Sampler and through the laser optical module, where the particulate in the sample air stream scatters the laser light through reflective and refractive properties. This scattered light is collected onto a photodiode detector at a near-forward angle, and the resulting electronic signal is processed to determine a continuous, real-time measurement of airborne particulate mass concentrations.

### Gravimetric Filter Sampler System

After the sample air stream has been measured by the E-Sampler and exits the optical engine, it passes through the built-in 47 mm filter sampler system. This system allows the particulate to optionally be collected on a filter disc as a second method to obtain airborne particulate mass data, or for laboratory analysis of the particulate. The 47 mm filter system can also be used to determine a gravimetric K-factor (slope multiplier) to correct the E-Sampler real-time signal to match the local particulate type. In this case, a filter disc is weighed on a microbalance before and after being run in the E-Sampler for a period of time. The resulting mass of the dust on the filter is correlated with the concentrations that the E-Sampler recorded over the same time period, and a correction factor is calculated. The E-Sampler can be used with no correction factor in applications where relative particulate trending is appropriate.



Figure 4: Met One Instruments E-Sampler-9800

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Additional details of the apparatus:

- Model: E-Sampler-9800
- Key Features: Real Time Particulate Monitor
- Description: Particulate and air quality monitoring combined in one instrument.

Results obtained from active indicative sampling is evaluated against ambient air quality limits for any common pollutants (SANS 1929:2011) as represented in Table 2 below:

Table 2: Ambient air quality limits for common pollutants (SANS 1929:2011) (Limit Values in  $\mu\text{g}/\text{m}^3$ )

Pollutant	Averaging Period	Limit Value	Frequency of Exceedance	Compliance Date
Particulate Matter $\text{PM}_{10}$	24 – hour average	120	4	Immediate – 31 December 2014
	24 – hour average	75	4	1 January 2015
	Annual average	50	0	Immediate – 31 December 2014
	Annual average	40	0	1 January 2015

### 5.3 PASSIVE DUST MONITORING

Dust buckets of a standard size and shape are prepared and set up at locations within the servitude of the pipeline and ancillary infrastructure, in order for dust to settle for periods of 30 ( $\pm 2$ ) days. The dust buckets are collected and sealed on-site and sent to a SANAS accredited laboratory for analysis. The masses of the water-soluble and insoluble components of the material collected are then determined and results are reported as  $\text{mg}/\text{m}^2/\text{day}$ . This methodology is described according to South African National Standards 1929:2011 and the American Society for Testing and Materials (ASTM) Designation: D 1739-98 (2017) standards. The results for this method of testing are obtained by gravimetric weighing. The apparatus required for this type of monitoring include open-top buckets/containers no less than 150mm in diameter with a height of no less than twice its diameter. The buckets must be placed on a stand at a height of 2 ( $\pm 0.2$ ) m above the ground.

Results obtained are evaluated against the four-band scale for dust deposition (SANS 1929:2011) and the National Dust Control Regulation limits (GN827).

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Table 3: Four-band scale evaluation criteria for dust deposition (SANS 1929: 2011)

Band Number	Band Description level	Classification	Dust fallout rate (D) (mg/m <sup>2</sup> /day, 30-day average)	Comment
1	Residential	Ideal	$D > 600$	Permissible for residential and light commercial
2	Industrial	Acceptable	$600 < D < 1200$	Permissible for heavy commercial and industrial
3	Action	Tolerable	$1200 < D < 2400$	Requires investigation and remediation if two sequential months lie in this band, or more than three occur in a year.
4	Alert	Unacceptable	$2440 < D$	Immediate action and remediation required followed the first incidence of dust fallout rate being exceeded. Incidents report is submitted to the relevant authority.

The National Dust Control Regulations identify the permissible amount of gravimetric dust fallout, as indicated below:

Table 4: Acceptable dust fallout results (GNR 827)

Restriction Areas	Dust fall rate (D) (mg / m <sup>2</sup> / day, 30-day average)	Permitted frequency of exceeding dust fall rate
Residential Area	$D < 600$	Two within a year, not sequential months.
Non-residential Area	$600 < D < 1200$	Two within a year, not sequential months.



## 6. EMISSION GENERATION AND POLLUTANT OVERVIEW

The current dust generating activities at the site include movement of vehicles along the proposed pipeline route.

It is important to predict and determine possible areas of emission generation as early identification can help develop mitigation or prevention plans for the specific emission generating activities. A prediction is made possible by using existing examples of emission generating activities on other sites and their effect and measures in place to mitigate. From the activities proposed for this project, the following can be expected to be activities that can cause or lead to the generation of emissions:

### Construction Phase:

- Site establishment including fencing and security;
- Site and vegetation clearing;
- Soil stripping, stockpiling, earthworks and diggings;
- Storage of waste and construction materials;
- Materials transport;
- Foundations and constructions;
- Surfacing;
- Tracked machinery and equipment;
- Heavy mobile vehicles;
- Articulated dump trucks;
- Haul trucks;
- Light motor vehicles;
- Access roads; and
- Materials stockpiles.

From the abovementioned activities, exhaust emissions from construction vehicles and equipment will typically include particulates, such as PM<sub>10</sub>, carbon monoxide (CO), sulphur dioxide (SO<sub>2</sub>) and volatile organic compounds (VOCs). Additionally, disturbance of groundcover caused by groundworks and activities will further impact on particulate matter generation.

### 6.1 PARTICULATE MATTER

Particles can be classified by its aerodynamic properties into coarse particles (gravimetric), PM<sub>10</sub> (particulate matter with a diameter of less than or equal to 10 microns), PM<sub>4</sub> (particulate matter with a diameter of less than or equal to 4 microns), very fine particles such as PM<sub>2.5</sub> (particulate matter with a diameter of less than or equal to 2.5 microns) and PM<sub>1</sub> (particulate matter with a diameter of less than or equal to 1 microns) (Harrison and van Grieken, 1998). The fine particles may contain **aerosols such as sulphates and nitrates (they “cling” to particulate matter), combustion particles and/or recondensed organic**

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and metal vapours. The coarse particles contain earth crust materials and fugitive dust from roads and industries (Fenger, 2002).

In terms of health impacts, particulate air pollution effects are broad, but are predominately associated with effects of the respiratory and cardiovascular systems (WHO, 2000). Particle size is important for health because it controls where in the respiratory system a given particle deposits. Fine particles have been found to be more damaging to human health than coarse particles as larger particles are less respirable in that they do not penetrate deep into the lungs compared to smaller particles (Manahan, 1991).

Larger particles are deposited into the extrathoracic part of the respiratory tract while smaller particles are deposited into the smaller airways leading to the respiratory bronchioles (WHO, 2000). A study by Pope and Burnett (2002) indicated that PM<sub>2.5</sub> leads to high plaque deposits in arteries, causing vascular inflammation and atherosclerosis (Kaonga and Kgabi, 2009). As yet, no evidence of a threshold in the relationship between particulate concentrations and adverse human health effects have been determined (Burger and Scorgie, 2001; WHO 2005).

- *Short-term (acute) exposure*

Recent studies suggest that short-term exposure to particulate matter leads to adverse health effects, even at low **concentrations of exposure (below 100 µg/m<sup>3</sup>)**. Morbidity effects associated with short-term exposure to particulates include increases in lower respiratory symptoms, medication use and small reductions in lung function.

- *Long-term (or chronic) exposure*

**Long-term exposure to low concentrations (~10 µg/m<sup>3</sup>)** of particulates is associated with mortality and other chronic effects such as increased rates of bronchitis and reduced lung function (WHO, 2000). Those most at risk include the elderly, individuals with pre-existing heart or lung disease, asthmatics and children; with an increased risk associated with an increase in exposure (WHO 2005).

## 6.2 ENVIRONMENTAL IMPACT

Trace gases and aerosols impact the climate through the effect on the radiative balance of the earth. Trace gases such as **greenhouse gases absorb and emit infrared radiation which raises the temperature of the earth's surface causing the** enhanced greenhouse effect. Aerosol particles have a direct effect by scattering and absorbing solar radiation and an indirect effect by acting as cloud condensation nuclei. Atmospheric aerosol particles range from dust and smoke to mists, smog and haze (IPCC, 2001). Smog and haze are common in regions where certain geographic features, such as mountains, and weather conditions, such as temperature inversions, contribute to the trapping of air pollutants (Kumar and Mohan, 2002). Smog and haze also contribute to visibility degradation through the absorption and scattering of radiation by gases and particulates (Elsom, 1996).

Other environmental impacts associated with air pollution include loss of biodiversity and damage to sensitive environments.

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7. RESULTS AND DISCUSSION

7.1. SAMPLING REGISTER

Table 5 below illustrates the March 2021 to April 2022 sampling register as recorded by ENVASS during the monthly monitoring.

Table 5: Annual Air Quality Sampling Register

GBN-JV Surface Water Monitoring															
Locality ID	Description	Co-ordinates		Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22
		Latitude	Longitude												
Dust Fallout															
DB01	Grootestryd 465 LQ Portion 5	23°40'41.16"S	27°36'4.24"E	●	●	●	●	●	Stolen	●	●	Stolen	●	●	●
DB02	Grootestryd 465 LQ Portion 5	23°40'52.25"S	27°36'2.03"E	●	●	●	●	●	●	●	●	●	●	●	●
DB03	Along D1675 outside of Turfvlakte 463 LQ farm	23°41'37.30"S	27°33'44.10"E	●	●	●	●	●	●	●	●	●	●	●	●
DB04	Along D1675 outside of Hierontrent 460 LQ farm	23°41'57.80"S	27°32'48.26"E	●	●	Stolen	●	●	●	●	●	●	●	●	●
DB05	Along D1675 outside of Eenzaamheid 687 LQ farm	23°42'13.03"S	27°31'52.68"E	●	●	●	●	●	●	●	●	●	●	●	●
DB06	Along D1675 outside of Eenzaamheid 687 LQ farm	23°42'29.97"S	27°30'32.64"E	●	●	●	●	●	●	●	●	●	●	●	●
DB07	Along D1675 outside of Eenzaamheid 687 LQ farm	23°42'32.26"S	27°29'48.38"E	●	●	●	●	●	●	●	●	●	●	●	●
DB08	Along D1675 outside of Pontes Estate 744 LQ farm	23°42'43.21"S	27°27'48.78"E	●	●	●	●	●	●	●	●	●	●	●	●
DB09	Pontes Estate 744 LQ (Buffels Jag)	23°42'55.98"S	27°27'30.40"E	●	●	●	●	●	●	●	●	●	●	●	●
DB10	Pontes Estate 744 LQ (Buffels Jag)	23°43'28.90"S	27°26'41.33"E	●	●	●	●	●	●	●	●	●	●	●	●
DB11	Pontes Estates 712 LQ	23°44'4.06"S	27°25'46.60"E	Installed	●	●	●	●	●	●	●	●	●	●	●
DB12	Along unnamed dirt road bordering Exxaro mine	23°41'23.55"S	27°34'20.99"E	Not Installed	Not Installed	Installed	●	●	●	●	●	●	●	●	●
DB13	D729 dirt road	24°38'30.48"S	27°18'53.46"E	Not Installed	Not Installed	Installed	●	●	●	●	●	●	●	●	●
DB14	Along unnamed dirt road bordering Exxaro mine	23°41'8.24"S	27°35'18.63"E	Not Installed	Not Installed	Not Installed	Installed	●	●	●	●	●	●	●	●
DB15	Servitude Road	23°46'41.92"S	27°25'52.99"E	●	●	●	●	●	●	No Access	●	●	●	●	No Access
DB16	Servitude Road	23°47'39.91"S	27°25'39.16"E	●	●	●	●	●	●	No Access	●	●	●	●	No Access
DB17	Servitude Road	23°49'17.37"S	27°25'15.13"E	●	●	●	●	●	●	No Access	Stolen	Stolen	Stolen	Stolen	Stolen
DB18	Servitude Road	23°50'5.11"S	27°25'4.54"E	●	●	●	●	●	●	●	●	●	●	●	●
DB19	Servitude Road	23°50'36.53"S	27°24'56.77"E	●	●	●	●	●	●	●	●	●	●	●	●
DB20	Servitude Road	23°51'5.81"S	27°24'49.59"E	●	●	●	●	●	●	●	●	●	●	●	●
DB21	Servitude Road	23°51'43.25"S	27°24'40.22"E	●	●	●	●	●	●	●	●	●	●	●	●
DB22	Servitude Road	23°52'22.70"S	27°24'31.05"E	●	●	●	●	●	●	●	●	●	●	●	●
DB23	Servitude Road	23°53'36.73"S	27°24'13.40"E	●	●	●	●	●	●	●	●	●	●	●	●
DB24	Servitude Road	23°53'39.51"S	27°24'12.55"E	●	●	●	●	●	●	●	●	●	●	●	●
DB25	Servitude Road	23°54'1.90"S	27°24'6.76"E	●	●	●	●	●	●	●	●	●	●	●	●
DB26	Servitude Road	23°54'46.08"S	27°23'56.64"E	●	●	●	●	●	●	●	●	●	●	●	●
DB27	Servitude Road	23°55'22.69"S	27°23'47.77"E	●	●	●	●	●	●	●	●	●	●	●	●
DB28	Servitude Road	23°56'29.84"S	27°23'31.71"E	●	●	●	●	●	●	●	●	●	●	●	●
DB29	Servitude Road	23°57'11.41"S	27°23'28.14"E	●	●	●	●	●	●	●	●	●	●	●	●
DB30	Servitude Road	23°57'58.79"S	27°23'37.97"E	●	●	●	●	●	●	●	●	●	●	●	●
DB31	Servitude Road	23°58'36.77"S	27°23'44.50"E	●	●	●	●	●	●	●	●	●	●	●	●
DB32	Servitude Road	23°59'45.59"S	27°23'58.25"E	●	●	●	●	●	●	●	●	●	●	●	●
DB33	Servitude Road	24° 0'4.67"S	27°24'1.95"E	●	●	●	●	●	●	●	●	●	●	●	●

GBN-JV Surface Water Monitoring															
Locality ID	Description	Co-ordinates		Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22
		Latitude	Longitude												
Dust Fallout															
DB34	Servitude Road	24° 0'37.82"S	27°24'8.36"E	•	•	•	•	•	•	•	•	•	•	•	•
DB35	Servitude Road	24° 0'51.33"S	27°24'10.07"E	•	•	•	•	•	•	•	•	•	•	•	•
DB36	Servitude Road	24° 1'3.54"S	27°24'12.35"E	•	•	•	•	•	•	•	•	•	•	•	•
DB37	Servitude Road	24° 1'7.07"S	27°24'13.15"E	•	•	•	•	•	•	•	•	Stolen	Stolen	•	•
DB38	Servitude Road	24° 1'34.37"S	27°24'18.32"E	•	•	•	•	•	•	•	•	•	•	•	•
DB39	Servitude Road	23°41'35.31"S	27°38'51.43"E	•	•	•	•	•	•	•	•	•	•	•	•
DB40	Servitude Road	24° 2'29.74"S	27°24'28.91"E	•	•	•	•	•	Stolen	•	•	•	•	•	•
DB41	Servitude Road	24° 2'40.69"S	27°24'31.20"E	•	•	•	•	•	•	•	•	•	•	•	•
DB42	Servitude Road	24° 2'46.02"S	27°24'32.19"E	•	•	•	•	•	•	•	•	•	•	•	•
DB43	Servitude Road	24° 3'21.38"S	27°24'37.93"E	•	•	•	•	•	•	•	•	•	•	•	•
DB44	Servitude Road	24° 4'29.95"S	27°24'51.86"E	•	•	•	•	•	•	•	•	•	•	•	•
DB45	Servitude Road	24° 4'53.87"S	27°24'55.26"E	•	•	•	•	•	•	•	•	•	•	•	•
DB46	Servitude Road	24° 5'48.56"S	27°25'8.99"E	•	•	•	•	•	•	•	•	•	•	•	•
DB47	Servitude Road	24° 6'2.39"S	27°25'12.90"E	•	•	•	•	•	•	•	•	•	•	•	•
DB48	Servitude Road	24° 6'33.52"S	27°25'21.12"E	•	•	•	•	•	•	•	•	•	•	•	•
DB49	Servitude Road	24° 7'11.42"S	27°25'32.63"E	•	•	•	•	•	•	•	•	•	•	•	•
DB50	Servitude Road	24° 7'50.30"S	27°25'43.01"E	•	•	•	•	•	•	•	•	•	Stolen	•	•
DB51	Servitude Road	24° 8'36.82"S	27°25'56.47"E	•	•	•	•	•	•	•	•	•	•	•	•
DB52	Servitude Road	24° 9'10.22"S	27°26'5.85"E	•	•	•	•	•	•	•	•	Stolen	•	•	•
DB53	Servitude Road	24° 9'23.38"S	27°26'10.00"E	•	•	•	•	•	•	•	•	•	•	•	•
DB54	Servitude Road	24° 9'56.57"S	27°26'19.10"E	•	•	•	•	•	•	•	•	•	•	•	•
DB55	Servitude Road	24°10'32.51"S	27°26'26.49"E	•	•	•	•	•	•	•	•	•	•	•	•
DB56	Servitude Road	24°10'55.15"S	27°26'36.17"E	•	•	•	•	•	•	•	•	•	•	•	•
DB57	Servitude Road	24°11'38.61"S	27°26'48.79"E	•	•	•	•	•	•	•	•	•	•	•	•
DB58	Servitude Road	24°11'49.30"S	27°26'51.53"E	•	•	•	•	•	•	•	•	•	•	•	•
DB59	Servitude Road	24°12'25.42"S	27°26'59.45"E	•	•	•	•	•	•	•	•	•	•	•	•
DB60	Servitude Road	24°13'6.00"S	27°26'59.07"E	•	•	•	•	•	•	•	•	•	•	•	•
DB61	Servitude Road	24°14'34.19"S	27°26'58.48"E	•	•	•	•	•	•	•	•	•	•	•	•
DB62	Servitude Road	24°14'49.64"S	27°26'58.86"E	•	•	•	•	•	•	•	•	•	•	•	•
DB63	Servitude Road	24°15'19.44"S	27°26'58.33"E	•	•	•	•	•	•	•	•	•	•	•	•
DB64	Servitude Road	24°16'6.23"S	27°26'58.26"E	•	•	•	•	•	•	•	•	•	•	•	•
DB65	Servitude Road	24°16'42.57"S	27°26'57.57"E	•	•	•	•	•	•	•	•	•	•	•	•
DB66	Servitude Road	24°17'26.82"S	27°26'56.01"E	•	•	•	•	•	•	•	•	•	•	•	•
DB67	Servitude Road	24°18'14.46"S	27°26'56.97"E	•	•	•	•	•	•	•	•	•	•	•	•
DB68	Servitude Road	24°18'49.52"S	27°26'57.63"E	•	•	•	•	•	•	•	•	•	•	•	•
DB69	Servitude Road	24°19'31.03"S	27°26'56.52"E	•	•	•	•	•	Stolen	•	•	•	•	•	•
DB70	Servitude Road	24°20'4.26"S	27°26'56.14"E	•	•	•	•	•	•	•	•	•	•	•	•
DB71	Servitude Road	24°20'45.70"S	27°26'55.87"E	•	•	•	•	•	•	•	•	•	•	•	•
DB72	Servitude Road	24°21'48.85"S	27°26'55.81"E	•	•	•	•	•	•	•	•	•	•	•	•
DB73	Servitude Road	24°23'9.52"S	27°26'54.85"E	•	•	•	•	•	•	•	•	•	•	•	•
DB74	Between Tarentaalpan 132 KQ portion 2 and Diepkuil 135 Portion 5	24°23'21.10"S	27°26'33.71"E	•	•	•	•	•	•	•	•	•	•	•	•
DB75	Between Tarentaalpan 132 KQ portion 2 and Diepkuil 135 Portion 5	24°23'31.60"S	27°26'13.03"E	•	•	•	•	•	Stolen	•	•	•	•	Stolen	•



GBN-JV Surface Water Monitoring															
Locality ID	Description	Co-ordinates		Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22
		Latitude	Longitude												
Dust Fallout															
DB76	Between Tarentaalpan 132 KQ portion 2 and Diepkuil 135 Portion 5	24°23'53.46"S	27°25'19.77"E	●	●	●	●	●	●	●	●	●	●	●	●
DB77	Along the R510	24°24'24.61"S	27°24'3.45"E	●	●	●	●	●	●	●	●	●	●	●	●
DB78	Along the R510	23°41'35.31"S	27°38'51.43"E	●	●	●	●	●	●	●	●	●	●	●	●
DB79	Along the R510	24°25'29.93"S	27°24'23.06"E	●	●	●	●	●	●	●	●	●	●	●	●
DB80	Between Zondagsuil 137 KQ and Diepkuil 135 KQ portion 1	24°25'33.45"S	27°24'13.50"E	●	●	●	●	●	●	●	●	●	●	●	●
DB81	Between Zondagsuil 137 KQ and Diepkuil 135 KQ portion 1	24°25'47.88"S	27°23'10.20"E	●	●	●	●	●	●	●	●	●	●	●	●
DB82	Between Buffelsvley 127 KQ and Karoobult 126 KQ	24°26'31.14"S	27°21'39.92"E	●	●	●	●	●	●	●	●	●	●	●	●
DB83	Between Buffelsvley 127 KQ and Karoobult 126 KQ	24°27'9.88"S	27°20'11.67"E	●	●	●	●	●	●	●	●	●	●	●	●
DB84	Paarl 124 KQ Portion 6	24°28'20.86"S	27°17'27.36"E	●	●	●	●	●	●	No Access	●	No Access	No Access	●	●
DB85	Paarl 124 KQ Portion 3	24°30'0.19"S	27°16'58.48"E	●	●	●	●	●	●	No Access	●	No Access	No Access	●	●
DB86	D769 dirt road	24°31'38.11"S	27°16'29.83"E	●	●	●	●	●	●	●	●	●	●	●	●
DB87	D769 dirt road	24°33'53.16"S	27°18'16.95"E	●	●	●	●	●	●	●	●	●	●	●	●
DB88	Within small community near Stratford 462 KQ	24°34'14.79"S	27°18'36.10"E	●	●	●	●	●	●	●	●	●	●	●	●
DB89	Near Primary School	24°34'24.25"S	27°18'35.18"E	●	●	●	●	●	●	●	●	●	●	●	●
DB90	Mooivalei 342 KQ – Portion 1	24°35'35.70"S	27°17'45.31"E	●	●	●	●	●	●	●	●	●	●	●	●
DB91	Mooivalei 342 KQ – Portion 2	24°35'59.20"S	27°17'38.40"E	●	●	●	●	●	●	●	●	●	●	●	●
DB92	Mooivalei 342 KQ – Portion 4	24°36'25.02"S	27°17'49.23"E	●	●	●	●	●	●	●	●	●	●	●	●
DB93	Mooivalei 342 KQ – Portion 7	24°36'51.37"S	27°18'27.13"E	●	●	●	●	●	●	●	●	●	●	●	●
DB94	Mooivalei 342 KQ – Portion 9	24°37'18.10"S	27°18'45.97"E	●	●	●	●	●	●	●	●	●	●	●	●
DB95	D729 dirt road	24°38'3.48"S	27°18'54.13"E	●	●	●	●	●	●	●	●	●	●	●	●
DB96	Along unnamed dirt road bordering Exxaro mine	23°41'25.22"S	27°34'18.42"E	No Access	●	●	●	●	●	●	●	●	●	●	●
DB97	Between Zondagsuil 137 KQ and Diepkuil 135 KQ portion 1	24°26'15.46"S	27°22'29.41"E	●	●	●	●	●	●	●	●	●	●	●	●
DB98	Buffelsvley 127 KQ	24°26'48.84"S	27°18'57.38"E	●	●	●	●	●	●	●	No Access	No Access	●	●	●
DB99	D769 dirt road	24°32'48.86"S	27°17'24.55"E	●	●	●	●	●	●	●	●	●	●	●	●
DB100	Mooivalei 342 KQ – Portion 1	24°35'5.76"S	27°18'49.94"E	●	●	●	●	●	●	●	●	●	●	●	●
E-Samplers															
PM01	Thaba Tholo Primary School	24°34'22.26"S	27°18'33.97"E	Not Installed	Not Installed	Not Installed	●	●	●	●	●	●	●	●	●
PM02	Eskom - Medupi Power Station	23°41'50.52"S	27°34'7.72"E	Not Installed	Not Installed	Not Installed	Not Installed	●	●	●	●	●	●	●	●
PM03	Mooivalei 342 KQ – Portion 1	24°35'36.99"S	27°17'43.54"E	Not Installed	Not Installed	Not Installed	●	●	●	●	●	●	●	●	●

Legend	
●	Sampled during the monthly period.
Stolen	Bucket was recorded as being stolen during the monitoring period.
No Access	Inaccessible during the monthly period.
Not Installed	Has yet to be installed over the monthly period.

## 7.2. PARTICULATE MATTER RESULTS

Particulate matter is measured using two (2) techniques. The first method involves the use of a hand-held PM meter (section 7.2.1) which is sampled at every dust fallout sampling locality. The second method involves the use of three (3) Stations Met One E-Samplers and compared to the SANS 1929:2011 24-hour limit of 75 mg/m<sup>3</sup> for both PM<sub>10</sub> to determine compliance. Two (2) E-samplers (Thaba Tholo Primary School and Mooivalei 342 KQ – Portion 1) were installed during the July 2021 monitoring period with the final (3<sup>rd</sup>) E-sampler (Eskom - Medupi Power) installed during August 2021.

### 7.2.1. Active Handheld PM Monitoring

Table 6: PM meter results

GBN-JV PM Data						
Locality Name	Month	PM 1	PM 2.5	PM 4	PM 10	TSP
SANS Limits		-	-	-	75	-
DB - 1	Jun-21 to Jul-21	1,20	13,30	20,70	72,40	154,40
	Jul-21 to Aug-21	3,20	17,20	36,70	106,70	131,30
	Aug-21 to Sep-21	7,20	28,40	47,50	88,00	104,60
	Sep-21 to Oct-21	1,30	6,20	9,80	20,50	28,50
	Oct-21 to Nov-21	0,90	6,00	14,80	47,80	67,50
	Nov-21 to Dec-21	2,00	11,90	21,00	42,70	59,40
	Dec-21 to Jan-22	1,60	14,70	40,10	88,80	102,90
	Jan-22 to Feb-22	1,10	9,20	19,70	41,20	59,00
	Feb-22 to Mar-22	0,10	0,10	1,40	5,70	6,30
	Mar-22 to Apr-22	0,10	1,20	4,60	20,40	30,40
DB - 2	Jun-21 to Jul-21	1,90	26,40	37,70	96,60	138,50
	Jul-21 to Aug-21	4,20	11,30	39,70	214,40	422,80
	Aug-21 to Sep-21	7,10	29,70	51,10	87,60	99,30
	Sep-21 to Oct-21	8,30	89,80	127,90	229,00	255,50
	Oct-21 to Nov-21	0,90	5,40	18,50	64,50	81,10
	Nov-21 to Dec-21	1,50	7,60	14,30	27,30	36,60
	Dec-21 to Jan-22	1,90	11,00	62,70	201,40	233,50
	Jan-22 to Feb-22	1,10	8,90	18,50	39,80	56,40
	Feb-22 to Mar-22	0,10	0,70	2,00	13,10	15,00
	Mar-22 to Apr-22	4,00	160,40	169,40	246,00	267,60
DB - 3	Jun-21 to Jul-21	1,00	11,10	23,40	146,50	332,00
	Jul-21 to Aug-21	3,10	13,60	41,40	124,80	151,30
	Aug-21 to Sep-21	2,10	5,10	15,30	111,50	201,50
	Sep-21 to Oct-21	1,60	7,10	13,10	33,20	40,00
	Oct-21 to Nov-21	2,30	7,10	10,40	18,50	13,40
	Nov-21 to Dec-21	1,30	8,20	14,40	23,50	24,10
	Dec-21 to Jan-22	0,80	5,40	11,60	30,30	39,60
	Jan-22 to Feb-22	1,20	10,40	20,00	29,70	40,20
	Feb-22 to Mar-22	0,10	0,10	0,90	3,30	3,40
	Mar-22 to Apr-22	0,30	1,50	6,40	23,00	27,30
DB - 4	Jun-21 to Jul-21	1,10	3,90	28,40	255,50	710,40
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GBN-JV PM Data						
Locality Name	Month	PM 1	PM 2.5	PM 4	PM 10	TSP
SANS Limits		-	-	-	75	-
	Jul-21 to Aug-21	3,20	21,60	54,10	206,10	273,90
	Aug-21 to Sep-21	2,40	9,70	15,30	33,30	40,70
	Sep-21 to Oct-21	1,60	7,90	13,70	25,70	29,40
	Oct-21 to Nov-21	2,60	9,20	14,60	23,60	24,20
	Nov-21 to Dec-21	1,30	6,30	12,30	24,70	26,60
	Dec-21 to Jan-22	3,20	45,00	74,50	165,50	190,10
	Jan-22 to Feb-22	1,30	11,20	23,30	45,60	52,40
	Feb-22 to Mar-22	0,10	0,40	2,00	6,10	7,90
	Mar-22 to Apr-22	0,90	6,60	29,10	114,10	136,00
DB - 5	Jun-21 to Jul-21	4,20	71,20	92,80	203,30	300,70
	Jul-21 to Aug-21	1,90	10,80	18,10	51,90	74,70
	Aug-21 to Sep-21	3,10	19,00	42,00	108,80	129,80
	Sep-21 to Oct-21	2,00	13,60	27,80	77,80	108,00
	Oct-21 to Nov-21	2,50	8,40	13,90	26,50	32,00
	Nov-21 to Dec-21	1,30	6,80	14,00	28,90	32,00
	Dec-21 to Jan-22	1,40	1,40	8,90	807,40	1039,80
	Jan-22 to Feb-22	3,00	38,10	70,50	168,10	219,10
	Feb-22 to Mar-22	0,20	1,20	3,00	8,90	12,60
	Mar-22 to Apr-22	2,40	23,20	65,20	254,20	301,10
DB - 6	Jun-21 to Jul-21	0,60	2,80	8,70	41,20	54,20
	Jul-21 to Aug-21	3,00	24,80	31,10	51,00	60,80
	Aug-21 to Sep-21	2,20	7,40	13,30	41,90	67,20
	Sep-21 to Oct-21	2,30	15,60	32,70	91,20	117,70
	Oct-21 to Nov-21	2,40	7,90	12,20	23,10	27,40
	Nov-21 to Dec-21	1,40	7,40	14,20	26,60	29,10
	Dec-21 to Jan-22	2,60	70,80	84,00	136,50	176,60
	Jan-22 to Feb-22	1,10	7,90	16,70	32,80	38,90
	Feb-22 to Mar-22	0,20	1,80	2,90	8,70	11,70
	Mar-22 to Apr-22	4,70	42,20	92,80	372,70	42,20
DB - 7	Jun-21 to Jul-21	0,60	2,90	5,50	12,10	14,60
	Jul-21 to Aug-21	1,60	4,90	11,20	35,10	46,80
	Aug-21 to Sep-21	2,30	14,60	18,70	34,50	43,80
	Sep-21 to Oct-21	2,30	18,50	36,50	91,60	120,60
	Oct-21 to Nov-21	2,40	7,60	11,80	17,90	19,80
	Nov-21 to Dec-21	1,30	7,30	14,30	24,90	26,10
	Dec-21 to Jan-22	1,10	9,70	27,10	85,40	114,40
	Jan-22 to Feb-22	1,10	9,10	16,50	29,80	36,00
	Feb-22 to Mar-22	0,20	0,60	2,00	9,30	9,30
	Mar-22 to Apr-22	0,50	1,60	8,40	40,40	47,10
DB - 8	Jun-21 to Jul-21	0,70	5,50	13,50	62,90	107,80
	Jul-21 to Aug-21	1,80	5,30	11,80	36,50	49,40

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GBN-JV PM Data						
Locality Name	Month	PM 1	PM 2.5	PM 4	PM 10	TSP
SANS Limits		-	-	-	75	-
	Aug-21 to Sep-21	2,30	11,70	19,50	68,30	96,60
	Sep-21 to Oct-21	1,60	7,70	15,60	47,20	84,20
	Oct-21 to Nov-21	2,10	7,30	10,80	19,50	26,30
	Nov-21 to Dec-21	1,40	6,80	14,00	25,00	26,80
	Dec-21 to Jan-22	0,80	7,10	17,00	40,30	49,00
	Jan-22 to Feb-22	1,10	7,90	15,60	27,40	31,70
	Feb-22 to Mar-22	0,10	0,20	3,00	19,20	22,30
	Mar-22 to Apr-22	0,30	1,20	4,10	14,30	15,00
DB - 9	Jun-21 to Jul-21	0,60	2,10	4,60	12,00	14,40
	Jul-21 to Aug-21	2,00	14,20	19,60	57,70	107,00
	Aug-21 to Sep-21	7,90	34,30	82,40	210,70	261,90
	Sep-21 to Oct-21	1,40	8,90	24,50	72,60	88,60
	Oct-21 to Nov-21	2,60	9,30	15,10	28,90	34,50
	Nov-21 to Dec-21	1,20	6,50	14,20	33,70	43,50
	Dec-21 to Jan-22	0,90	5,30	15,40	44,20	55,90
	Jan-22 to Feb-22	1,10	8,00	14,90	24,80	27,80
	Feb-22 to Mar-22	0,10	0,40	1,60	8,50	10,30
	Mar-22 to Apr-22	0,40	1,80	6,70	10,50	40,00
DB - 10	Jun-21 to Jul-21	0,70	5,40	11,00	49,10	79,30
	Jul-21 to Aug-21	1,70	7,30	13,40	35,80	48,70
	Aug-21 to Sep-21	8,20	42,20	91,50	246,40	288,50
	Sep-21 to Oct-21	1,00	4,80	17,10	52,90	65,90
	Oct-21 to Nov-21	3,10	12,10	19,40	35,20	43,90
	Nov-21 to Dec-21	1,20	5,40	15,40	46,50	71,80
	Dec-21 to Jan-22	1,40	8,70	30,30	58,00	72,00
	Jan-22 to Feb-22	1,20	9,30	17,10	32,00	36,30
	Feb-22 to Mar-22	0,20	0,80	2,10	5,30	7,80
	Mar-22 to Apr-22	0,50	2,40	14,90	101,10	159,60
DB - 11	Jun-21 to Jul-21	2,20	23,00	35,50	79,40	98,50
	Jul-21 to Aug-21	2,10	13,00	36,30	121,90	165,60
	Aug-21 to Sep-21	7,60	29,50	58,90	149,80	200,90
	Sep-21 to Oct-21	0,70	4,60	7,30	13,00	16,10
	Oct-21 to Nov-21	2,80	14,70	21,80	43,20	55,50
	Nov-21 to Dec-21	1,20	6,60	13,80	24,40	24,40
	Dec-21 to Jan-22	1,50	6,40	21,20	92,00	175,80
	Jan-22 to Feb-22	1,10	8,00	15,90	31,10	35,00
	Feb-22 to Mar-22	0,10	0,60	2,00	7,10	9,60
	Mar-22 to Apr-22	0,30	1,60	7,80	38,00	43,30
DB - 12	Jun-21 to Jul-21	-	-	-	-	-
	Jul-21 to Aug-21	3,50	10,80	73,70	298,80	394,40
	Aug-21 to Sep-21	7,30	31,40	51,70	87,80	109,90

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GBN-JV PM Data						
Locality Name	Month	PM 1	PM 2.5	PM 4	PM 10	TSP
SANS Limits		-	-	-	75	-
	Sep-21 to Oct-21	1,40	7,20	15,30	38,80	43,80
	Oct-21 to Nov-21	1,30	14,90	35,80	117,60	144,70
	Nov-21 to Dec-21	0,70	5,20	7,00	12,10	14,00
	Dec-21 to Jan-22	0,80	5,70	16,70	67,70	122,60
	Jan-22 to Feb-22	1,40	14,70	30,10	50,60	70,10
	Feb-22 to Mar-22	0,10	0,70	2,10	8,20	9,80
	Mar-22 to Apr-22	0,30	1,00	5,40	42,00	54,00
DB - 13	Jun-21 to Jul-21	59,10	1260,10	3339,30	11149,60	15194,70
	Jul-21 to Aug-21	2,50	30,80	46,10	98,10	133,30
	Aug-21 to Sep-21	5,00	98,00	174,70	438,30	516,00
	Sep-21 to Oct-21	2,20	14,00	38,10	111,90	138,40
	Oct-21 to Nov-21	2,00	13,90	33,40	79,50	90,00
	Nov-21 to Dec-21	1,10	5,80	15,90	65,80	99,70
	Dec-21 to Jan-22	2,00	7,50	15,30	22,80	28,30
	Jan-22 to Feb-22	1,20	13,60	25,60	81,40	135,00
	Feb-22 to Mar-22	1,70	7,40	15,40	52,90	72,70
	Mar-22 to Apr-22	0,30	1,40	8,60	30,40	43,10
DB - 14	Jun-21 to Jul-21	1,10	5,90	33,90	227,70	359,00
	Jul-21 to Aug-21	3,40	20,50	54,00	190,30	237,20
	Aug-21 to Sep-21	7,30	28,60	47,50	79,20	95,90
	Sep-21 to Oct-21	1,30	8,20	12,70	26,60	35,80
	Oct-21 to Nov-21	0,90	7,30	19,70	68,90	94,20
	Nov-21 to Dec-21	0,70	3,20	4,60	9,40	11,80
	Dec-21 to Jan-22	0,90	6,00	13,70	52,10	92,10
	Jan-22 to Feb-22	1,20	9,80	18,60	30,50	37,90
	Feb-22 to Mar-22	0,10	0,20	0,70	4,00	4,50
	Mar-22 to Apr-22	0,60	4,30	9,00	27,90	32,30
DB - 15	Jun-21 to Jul-21	1,80	21,00	47,60	160,90	220,70
	Jul-21 to Aug-21	1,60	5,50	8,80	17,80	22,10
	Aug-21 to Sep-21	2,20	7,30	12,00	27,60	31,30
	Sep-21 to Oct-21	2,10	13,00	29,20	73,90	85,70
	Oct-21 to Nov-21	-	-	-	-	-
	Nov-21 to Dec-21	1,10	5,50	10,30	23,20	31,90
	Dec-21 to Jan-22	1,20	9,70	22,60	46,40	52,50
	Jan-22 to Feb-22	0,90	10,00	11,30	38,10	50,10
	Feb-22 to Mar-22	0,20	3,00	4,80	14,00	17,00
	Mar-22 to Apr-22	-	-	-	-	-
DB - 16	Jun-21 to Jul-21	0,90	7,30	21,40	120,40	233,80
	Jul-21 to Aug-21	1,60	6,80	12,50	41,00	60,80
	Aug-21 to Sep-21	2,20	7,80	13,70	32,00	42,50
	Sep-21 to Oct-21	2,30	13,80	29,60	70,70	77,40



GBN-JV PM Data						
Locality Name	Month	PM 1	PM 2.5	PM 4	PM 10	TSP
SANS Limits		-	-	-	75	-
	Oct-21 to Nov-21	-	-	-	-	-
	Nov-21 to Dec-21	1,30	6,90	11,40	17,10	17,70
	Dec-21 to Jan-22	1,40	10,30	21,40	39,20	47,80
	Jan-22 to Feb-22	0,90	7,10	12,80	43,80	97,20
	Feb-22 to Mar-22	0,10	0,10	1,10	10,00	12,40
	Mar-22 to Apr-22	-	-	-	-	-
DB - 17	Jun-21 to Jul-21	102,30	0,70	1,20	6,70	46,20
	Jul-21 to Aug-21	1,40	3,20	11,50	43,70	60,40
	Aug-21 to Sep-21	2,30	7,30	12,20	24,70	30,20
	Sep-21 to Oct-21	2,50	15,40	31,60	88,50	103,90
	Oct-21 to Nov-21	-	-	-	-	-
	Nov-21 to Dec-21	-	-	-	-	-
	Dec-21 to Jan-22	1,20	9,10	18,70	43,20	52,40
	Jan-22 to Feb-22	0,80	7,20	13,70	41,20	59,70
	Feb-22 to Mar-22	0,10	0,10	0,10	27,90	46,40
	Mar-22 to Apr-22	-	-	-	-	-
DB - 18	Jun-21 to Jul-21	1,40	20,20	35,00	124,70	187,50
	Jul-21 to Aug-21	1,50	2,50	12,00	52,60	88,30
	Aug-21 to Sep-21	2,40	10,20	19,20	62,50	81,00
	Sep-21 to Oct-21	1,90	9,80	19,00	39,10	42,20
	Oct-21 to Nov-21	2,20	6,50	9,70	15,00	15,60
	Nov-21 to Dec-21	6,40	17,30	13,10	27,00	27,20
	Dec-21 to Jan-22	2,30	7,50	13,80	30,10	42,50
	Jan-22 to Feb-22	0,90	10,60	17,40	47,90	81,20
	Feb-22 to Mar-22	0,20	2,00	4,20	14,70	19,10
	Mar-22 to Apr-22	0,50	1,70	8,60	45,00	48,10
DB - 19	Jun-21 to Jul-21	0,90	11,00	19,80	75,60	142,10
	Jul-21 to Aug-21	1,30	3,40	7,70	32,90	50,20
	Aug-21 to Sep-21	2,40	7,30	13,40	36,80	51,80
	Sep-21 to Oct-21	1,90	7,80	16,20	40,80	49,40
	Oct-21 to Nov-21	2,20	7,20	10,60	17,30	20,40
	Nov-21 to Dec-21	5,50	19,40	24,20	43,80	66,60
	Dec-21 to Jan-22	2,10	6,70	13,30	35,80	65,40
	Jan-22 to Feb-22	0,70	4,70	11,00	50,70	106,80
	Feb-22 to Mar-22	0,20	0,60	1,90	9,20	10,10
	Mar-22 to Apr-22	0,20	1,50	7,90	20,00	19,00
DB - 20	Jun-21 to Jul-21	0,70	5,60	14,00	68,30	155,20
	Jul-21 to Aug-21	1,50	7,40	11,30	30,90	43,80
	Aug-21 to Sep-21	2,70	8,60	15,50	44,10	58,90
	Sep-21 to Oct-21	1,70	7,90	15,40	35,70	42,40
	Oct-21 to Nov-21	2,30	7,80	11,40	16,90	19,90

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GBN-JV PM Data						
Locality Name	Month	PM 1	PM 2.5	PM 4	PM 10	TSP
SANS Limits		-	-	-	75	-
	Nov-21 to Dec-21	6,00	11,20	13,60	19,40	22,40
	Dec-21 to Jan-22	1,70	6,50	12,10	27,70	38,80
	Jan-22 to Feb-22	0,80	5,10	11,50	30,50	36,10
	Feb-22 to Mar-22	0,10	0,50	1,90	6,40	7,10
	Mar-22 to Apr-22	0,60	4,00	11,00	25,00	31,00
DB - 21	Jun-21 to Jul-21	0,70	4,10	8,50	30,20	41,90
	Jul-21 to Aug-21	1,50	4,70	8,60	24,70	33,30
	Aug-21 to Sep-21	2,80	9,90	17,70	45,30	53,90
	Sep-21 to Oct-21	1,60	10,40	18,70	48,50	68,20
	Oct-21 to Nov-21	2,30	7,50	10,40	15,10	18,20
	Nov-21 to Dec-21	12,20	17,50	21,00	26,70	28,00
	Dec-21 to Jan-22	1,80	6,80	14,50	50,40	93,50
	Jan-22 to Feb-22	0,80	5,80	10,90	27,90	35,30
	Feb-22 to Mar-22	0,10	0,80	2,80	9,20	9,80
	Mar-22 to Apr-22	0,50	6,40	10,80	27,90	32,30
DB - 22	Jun-21 to Jul-21	0,70	2,60	12,00	75,60	135,40
	Jul-21 to Aug-21	1,50	8,60	12,90	27,00	33,80
	Aug-21 to Sep-21	1,60	7,80	13,50	29,90	41,60
	Sep-21 to Oct-21	2,10	7,30	10,10	13,30	14,60
	Oct-21 to Nov-21	2,10	7,30	10,10	13,30	14,60
	Nov-21 to Dec-21	12,30	17,70	20,40	26,50	27,70
	Dec-21 to Jan-22	2,40	7,80	11,80	26,50	39,50
	Jan-22 to Feb-22	0,70	4,50	9,60	21,90	25,00
	Feb-22 to Mar-22	0,20	0,70	1,50	11,10	20,00
	Mar-22 to Apr-22	0,40	1,10	3,70	11,40	15,00
DB - 23	Jun-21 to Jul-21	0,60	0,70	7,60	82,40	206,90
	Jul-21 to Aug-21	1,40	4,30	7,40	20,10	28,10
	Aug-21 to Sep-21	3,00	10,70	22,70	92,80	148,90
	Sep-21 to Oct-21	1,50	6,50	11,90	21,80	26,80
	Oct-21 to Nov-21	2,20	5,70	11,00	27,10	41,30
	Nov-21 to Dec-21	6,80	11,20	13,80	19,70	23,40
	Dec-21 to Jan-22	2,40	9,20	19,20	56,00	80,60
	Jan-22 to Feb-22	1,10	8,00	13,20	24,00	31,70
	Feb-22 to Mar-22	0,20	0,80	3,10	8,80	12,20
	Mar-22 to Apr-22	1,00	8,10	13,10	24,00	30,80
DB - 24	Jun-21 to Jul-21	4,50	85,70	126,60	321,70	410,40
	Jul-21 to Aug-21	2,80	28,60	59,00	162,00	202,10
	Aug-21 to Sep-21	2,90	5,80	35,70	125,60	137,90
	Sep-21 to Oct-21	1,70	8,60	16,80	42,30	53,30
	Oct-21 to Nov-21	2,30	6,80	10,20	14,40	16,30
	Nov-21 to Dec-21	5,90	10,40	13,90	22,80	28,30

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GBN-JV PM Data						
Locality Name	Month	PM 1	PM 2.5	PM 4	PM 10	TSP
SANS Limits		-	-	-	75	-
	Dec-21 to Jan-22	2,80	29,40	34,00	48,20	55,60
	Jan-22 to Feb-22	0,80	6,20	9,50	28,80	33,10
	Feb-22 to Mar-22	0,20	2,90	6,20	13,30	26,40
	Mar-22 to Apr-22	0,30	6,50	11,00	20,00	24,70
DB - 25	Jun-21 to Jul-21	0,80	2,40	10,60	93,20	219,00
	Jul-21 to Aug-21	1,60	7,50	13,90	33,50	43,40
	Aug-21 to Sep-21	3,00	9,90	33,60	115,60	143,30
	Sep-21 to Oct-21	1,50	9,20	13,20	21,90	25,60
	Oct-21 to Nov-21	2,20	7,10	9,80	15,30	16,60
	Nov-21 to Dec-21	4,50	7,80	9,90	14,70	18,40
	Dec-21 to Jan-22	1,80	7,10	11,50	24,30	32,90
	Jan-22 to Feb-22	1,10	7,00	12,20	33,70	58,80
	Feb-22 to Mar-22	0,10	2,60	4,00	13,20	18,10
	Mar-22 to Apr-22	0,30	5,40	10,90	23,20	25,00
DB - 26	Jun-21 to Jul-21	0,80	3,30	7,10	18,30	24,40
	Jul-21 to Aug-21	1,60	19,50	24,30	48,80	69,80
	Aug-21 to Sep-21	3,20	9,50	43,60	152,50	175,30
	Sep-21 to Oct-21	1,50	7,10	10,70	20,30	23,40
	Oct-21 to Nov-21	2,30	7,20	11,50	20,10	31,20
	Nov-21 to Dec-21	5,40	11,10	14,80	26,00	36,50
	Dec-21 to Jan-22	1,80	6,00	9,30	16,70	17,90
	Jan-22 to Feb-22	0,70	4,30	9,00	20,10	25,10
	Feb-22 to Mar-22	0,20	1,80	2,60	5,90	7,10
	Mar-22 to Apr-22	0,40	4,10	9,70	22,80	25,00
DB - 27	Jun-21 to Jul-21	0,80	5,10	8,60	20,30	25,90
	Jul-21 to Aug-21	1,50	6,30	10,30	20,20	23,30
	Aug-21 to Sep-21	3,00	10,40	25,30	76,20	88,60
	Sep-21 to Oct-21	1,50	7,00	10,60	17,80	21,50
	Oct-21 to Nov-21	2,30	8,10	10,90	14,80	16,70
	Nov-21 to Dec-21	6,80	11,60	13,90	17,30	20,40
	Dec-21 to Jan-22	1,70	5,20	8,00	12,30	13,50
	Jan-22 to Feb-22	1,40	15,10	32,10	51,40	71,10
	Feb-22 to Mar-22	0,20	1,10	4,10	40,90	63,10
	Mar-22 to Apr-22	0,30	1,80	9,40	20,50	50,60
DB - 28	Jun-21 to Jul-21	0,80	5,70	9,40	28,10	49,10
	Jul-21 to Aug-21	5,00	29,90	38,70	66,10	75,90
	Aug-21 to Sep-21	2,90	9,00	21,60	61,90	77,40
	Sep-21 to Oct-21	1,70	11,90	17,80	38,40	52,60
	Oct-21 to Nov-21	2,20	7,10	9,40	15,30	20,80
	Nov-21 to Dec-21	7,90	13,00	15,10	20,20	26,40
	Dec-21 to Jan-22	2,00	7,50	11,70	18,70	23,10

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GBN-JV PM Data						
Locality Name	Month	PM 1	PM 2.5	PM 4	PM 10	TSP
SANS Limits		-	-	-	75	-
	Jan-22 to Feb-22	0,80	5,40	10,10	38,11	50,00
	Feb-22 to Mar-22	0,50	12,50	18,10	57,70	72,40
	Mar-22 to Apr-22	0,40	1,90	14,70	25,10	40,10
DB - 29	Jun-21 to Jul-21	0,70	2,00	9,30	44,30	78,20
	Jul-21 to Aug-21	1,40	6,90	9,70	16,30	17,60
	Aug-21 to Sep-21	3,20	9,90	23,80	75,70	94,80
	Sep-21 to Oct-21	1,50	6,70	10,50	19,60	27,00
	Oct-21 to Nov-21	2,20	7,10	11,10	22,10	28,30
	Nov-21 to Dec-21	7,10	11,20	12,70	22,80	40,00
	Dec-21 to Jan-22	1,80	4,40	10,30	30,60	44,80
	Jan-22 to Feb-22	0,80	5,90	11,00	30,60	42,00
	Feb-22 to Mar-22	0,20	0,80	1,80	10,40	15,30
	Mar-22 to Apr-22	0,40	2,10	18,70	30,20	53,20
DB - 30	Jun-21 to Jul-21	1,80	31,40	37,00	63,20	79,80
	Jul-21 to Aug-21	1,50	4,40	7,80	16,00	19,10
	Aug-21 to Sep-21	3,20	13,20	28,30	79,80	102,60
	Sep-21 to Oct-21	1,60	8,20	13,70	26,60	34,60
	Oct-21 to Nov-21	2,30	8,40	12,60	24,20	28,50
	Nov-21 to Dec-21	9,00	15,90	18,40	25,90	28,90
	Dec-21 to Jan-22	1,80	5,20	10,80	32,30	50,80
	Jan-22 to Feb-22	0,80	5,70	10,80	37,40	40,00
	Feb-22 to Mar-22	0,50	14,10	19,40	48,00	65,00
	Mar-22 to Apr-22	0,50	1,70	10,20	24,70	30,20
DB - 31	Jun-21 to Jul-21	0,70	4,50	8,70	25,10	32,50
	Jul-21 to Aug-21	1,40	5,10	9,30	21,60	30,30
	Aug-21 to Sep-21	3,30	11,80	15,70	75,30	91,90
	Sep-21 to Oct-21	1,70	12,69	17,30	27,30	34,00
	Oct-21 to Nov-21	2,20	6,80	9,40	17,60	23,80
	Nov-21 to Dec-21	13,00	19,50	22,30	27,90	31,60
	Dec-21 to Jan-22	1,90	7,00	11,70	23,10	27,40
	Jan-22 to Feb-22	1,10	9,00	19,80	39,90	54,90
	Feb-22 to Mar-22	0,20	2,00	15,10	24,60	30,60
	Mar-22 to Apr-22	0,30	1,40	9,70	57,80	70,80
DB - 32	Jun-21 to Jul-21	0,70	1,80	7,50	34,60	67,30
	Jul-21 to Aug-21	1,40	4,00	7,70	16,50	21,40
	Aug-21 to Sep-21	3,10	11,20	22,50	61,90	78,50
	Sep-21 to Oct-21	1,60	8,10	12,20	21,30	26,20
	Oct-21 to Nov-21	2,20	6,90	10,10	17,60	24,40
	Nov-21 to Dec-21	9,80	15,20	18,50	25,00	26,20
	Dec-21 to Jan-22	1,90	6,00	10,10	19,10	24,70
	Jan-22 to Feb-22	1,00	8,90	24,00	35,80	37,30

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GBN-JV PM Data						
Locality Name	Month	PM 1	PM 2.5	PM 4	PM 10	TSP
SANS Limits		-	-	-	75	-
	Feb-22 to Mar-22	0,90	6,90	11,90	35,40	45,20
	Mar-22 to Apr-22	0,30	1,10	13,90	35,80	35,90
DB - 33	Jun-21 to Jul-21	0,70	2,20	8,60	89,00	225,80
	Jul-21 to Aug-21	1,50	5,00	9,50	45,10	88,20
	Aug-21 to Sep-21	3,10	10,60	22,80	60,20	74,40
	Sep-21 to Oct-21	1,50	8,10	11,70	17,10	19,00
	Oct-21 to Nov-21	2,10	7,10	9,60	14,70	19,00
	Nov-21 to Dec-21	9,00	15,60	18,30	22,90	24,20
	Dec-21 to Jan-22	1,90	7,80	10,70	16,70	18,00
	Jan-22 to Feb-22	0,90	10,30	25,80	30,30	38,80
	Feb-22 to Mar-22	0,10	0,70	2,00	6,50	10,20
	Mar-22 to Apr-22	1,10	1,80	22,00	29,00	68,90
	Jun-21 to Jul-21	0,70	2,20	7,20	39,50	90,70
	Jul-21 to Aug-21	1,40	2,80	9,00	33,20	52,30
DB - 34	Aug-21 to Sep-21	3,30	11,10	22,60	58,40	83,10
	Sep-21 to Oct-21	1,70	9,60	13,90	21,80	24,30
	Oct-21 to Nov-21	2,20	6,10	9,20	15,10	17,00
	Nov-21 to Dec-21	8,90	15,80	18,50	23,70	37,20
	Dec-21 to Jan-22	1,90	5,90	9,70	17,30	20,40
	Jan-22 to Feb-22	1,30	15,00	33,40	75,60	92,80
	Feb-22 to Mar-22	0,70	2,80	6,40	30,80	40,70
	Mar-22 to Apr-22	0,30	1,30	9,60	23,20	50,40
	Jun-21 to Jul-21	0,70	2,70	8,40	64,50	163,70
	Jul-21 to Aug-21	1,50	4,60	9,70	30,00	42,40
	Aug-21 to Sep-21	3,80	16,30	27,78	71,90	92,20
	Sep-21 to Oct-21	1,50	7,40	14,10	32,50	44,90
DB - 35	Oct-21 to Nov-21	2,40	8,50	13,60	32,30	57,50
	Nov-21 to Dec-21	10,30	17,10	21,00	25,70	27,50
	Dec-21 to Jan-22	2,00	8,80	15,50	36,60	51,40
	Jan-22 to Feb-22	0,80	4,50	8,70	20,50	27,20
	Feb-22 to Mar-22	0,20	0,80	3,00	5,70	9,80
	Mar-22 to Apr-22	0,40	1,80	10,10	20,40	32,20
	Jun-21 to Jul-21	0,80	5,80	10,80	35,70	53,50
	Jul-21 to Aug-21	1,40	3,30	7,80	30,50	52,00
	Aug-21 to Sep-21	3,40	12,20	24,50	69,00	97,30
	Sep-21 to Oct-21	1,60	8,00	12,40	21,20	24,20
DB - 36	Oct-21 to Nov-21	2,40	8,50	13,60	32,20	57,50
	Nov-21 to Dec-21	10,50	19,50	23,10	30,70	32,00
	Dec-21 to Jan-22	2,00	6,60	10,40	19,10	24,60
	Jan-22 to Feb-22	0,80	7,70	11,50	30,80	38,70
	Feb-22 to Mar-22	0,50	13,40	22,00	40,10	64,10
	Jun-21 to Jul-21	0,80	5,80	10,80	35,70	53,50
	Jul-21 to Aug-21	1,40	3,30	7,80	30,50	52,00
	Aug-21 to Sep-21	3,40	12,20	24,50	69,00	97,30

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GBN-JV PM Data						
Locality Name	Month	PM 1	PM 2.5	PM 4	PM 10	TSP
SANS Limits		-	-	-	75	-
	Mar-22 to Apr-22	0,30	1,60	7,90	18,80	36,40
DB - 37	Jun-21 to Jul-21	0,70	6,30	16,30	66,30	107,60
	Jul-21 to Aug-21	1,50	6,50	13,70	56,30	85,20
	Aug-21 to Sep-21	3,40	9,90	19,50	49,50	67,40
	Sep-21 to Oct-21	1,70	8,60	13,20	20,40	22,30
	Oct-21 to Nov-21	2,10	7,30	9,70	14,70	22,10
	Nov-21 to Dec-21	8,30	13,50	16,30	20,70	21,30
	Dec-21 to Jan-22	2,30	8,70	15,70	52,20	86,10
	Jan-22 to Feb-22	0,90	7,80	15,60	31,20	41,10
	Feb-22 to Mar-22	0,10	0,60	3,10	13,30	20,10
	Mar-22 to Apr-22	0,40	2,20	20,00	20,10	40,70
DB - 38	Jun-21 to Jul-21	0,70	3,60	8,30	31,70	64,40
	Jul-21 to Aug-21	1,40	1,40	1,40	169,20	558,10
	Aug-21 to Sep-21	3,40	10,60	20,40	53,20	69,20
	Sep-21 to Oct-21	1,50	7,30	14,50	38,80	62,20
	Oct-21 to Nov-21	2,30	8,20	11,60	16,90	20,00
	Nov-21 to Dec-21	9,30	15,00	18,00	26,60	34,00
	Dec-21 to Jan-22	2,20	6,80	12,40	31,50	49,30
	Jan-22 to Feb-22	0,80	4,70	11,70	28,80	36,60
	Feb-22 to Mar-22	0,20	0,90	2,20	8,90	24,00
	Mar-22 to Apr-22	0,40	1,90	19,60	24,50	34,60
DB - 39	Jun-21 to Jul-21	1,30	11,50	19,60	69,90	130,90
	Jul-21 to Aug-21	1,70	8,10	15,90	56,80	80,80
	Aug-21 to Sep-21	3,30	10,90	23,10	68,20	89,70
	Sep-21 to Oct-21	1,60	7,20	17,60	41,40	51,90
	Oct-21 to Nov-21	2,20	7,90	10,70	14,40	18,80
	Nov-21 to Dec-21	7,60	12,70	15,50	22,90	29,60
	Dec-21 to Jan-22	2,50	5,60	15,40	62,00	121,30
	Jan-22 to Feb-22	0,80	5,00	12,10	30,60	41,10
	Feb-22 to Mar-22	0,10	2,80	5,90	12,90	17,40
	Mar-22 to Apr-22	0,30	2,40	15,40	23,80	54,00
DB - 40	Jun-21 to Jul-21	1,40	18,00	27,40	95,20	170,40
	Jul-21 to Aug-21	1,70	9,20	21,10	69,60	93,60
	Aug-21 to Sep-21	3,80	13,60	24,70	69,90	95,80
	Sep-21 to Oct-21	1,60	2,50	14,50	29,70	34,60
	Oct-21 to Nov-21	2,40	7,00	9,80	13,90	13,90
	Nov-21 to Dec-21	9,70	22,60	25,80	34,10	39,00
	Dec-21 to Jan-22	2,50	8,50	13,00	31,40	41,30
	Jan-22 to Feb-22	0,80	6,00	11,10	24,30	30,50
	Feb-22 to Mar-22	0,10	1,20	2,70	8,50	11,70
	Mar-22 to Apr-22	0,30	2,90	16,70	25,70	46,20

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GBN-JV PM Data						
Locality Name	Month	PM 1	PM 2.5	PM 4	PM 10	TSP
SANS Limits		-	-	-	75	-
DB - 41	Jun-21 to Jul-21	0,80	3,10	7,60	27,80	53,10
	Jul-21 to Aug-21	1,70	9,50	16,50	46,10	59,00
	Aug-21 to Sep-21	4,10	17,50	28,80	79,30	110,80
	Sep-21 to Oct-21	1,70	9,00	14,00	19,90	31,00
	Oct-21 to Nov-21	2,20	7,60	10,30	15,30	19,00
	Nov-21 to Dec-21	8,80	16,30	19,60	31,20	49,70
	Dec-21 to Jan-22	3,10	11,00	19,90	52,60	72,30
	Jan-22 to Feb-22	1,50	15,30	24,90	41,40	44,50
	Feb-22 to Mar-22	0,20	3,10	5,90	23,70	18,00
	Mar-22 to Apr-22	0,40	4,00	16,80	28,00	44,90
DB - 42	Jun-21 to Jul-21	1,00	9,40	15,00	46,80	83,10
	Jul-21 to Aug-21	1,50	4,00	9,70	38,40	60,60
	Aug-21 to Sep-21	3,60	11,80	20,80	46,00	60,80
	Sep-21 to Oct-21	1,60	8,00	13,00	24,40	31,20
	Oct-21 to Nov-21	2,20	8,30	11,90	21,50	28,90
	Nov-21 to Dec-21	6,90	10,80	14,20	26,50	35,70
	Dec-21 to Jan-22	2,20	7,50	14,60	41,10	50,90
	Jan-22 to Feb-22	0,70	4,40	9,00	23,30	33,10
	Feb-22 to Mar-22	0,10	2,30	4,00	5,80	10,00
	Mar-22 to Apr-22	0,40	5,20	15,10	30,20	39,30
DB - 43	Jun-21 to Jul-21	0,80	4,40	12,80	69,90	149,50
	Jul-21 to Aug-21	1,60	6,90	14,00	43,80	61,10
	Aug-21 to Sep-21	4,40	22,10	33,00	60,70	68,10
	Sep-21 to Oct-21	16,00	9,70	15,60	25,60	34,80
	Oct-21 to Nov-21	2,20	7,10	10,90	20,80	25,10
	Nov-21 to Dec-21	6,10	10,80	13,30	15,80	17,00
	Dec-21 to Jan-22	2,40	6,50	13,10	34,90	47,30
	Jan-22 to Feb-22	0,80	4,80	11,40	51,30	111,20
	Feb-22 to Mar-22	0,20	0,80	2,10	5,70	12,10
	Mar-22 to Apr-22	0,30	1,20	4,90	15,10	15,80
DB - 44	Jun-21 to Jul-21	0,80	4,30	12,60	47,70	71,70
	Jul-21 to Aug-21	2,20	9,90	34,90	177,90	343,70
	Aug-21 to Sep-21	3,50	9,90	17,70	41,90	53,60
	Sep-21 to Oct-21	1,60	9,00	15,40	30,50	36,10
	Oct-21 to Nov-21	2,20	6,40	8,80	13,80	19,40
	Nov-21 to Dec-21	10,80	18,10	21,20	27,80	27,80
	Dec-21 to Jan-22	3,20	16,90	22,40	49,00	106,20
	Jan-22 to Feb-22	1,00	9,80	13,90	26,90	30,60
	Feb-22 to Mar-22	0,40	6,30	8,80	27,40	37,30
	Mar-22 to Apr-22	0,30	1,20	10,50	20,50	30,80
DB - 45	Jun-21 to Jul-21	0,70	4,00	11,60	37,70	56,20

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GBN-JV PM Data						
Locality Name	Month	PM 1	PM 2.5	PM 4	PM 10	TSP
SANS Limits		-	-	-	75	-
	Jul-21 to Aug-21	2,30	21,90	30,20	69,80	100,60
	Aug-21 to Sep-21	3,50	12,10	19,90	43,90	50,00
	Sep-21 to Oct-21	1,80	11,70	18,00	29,30	37,30
	Oct-21 to Nov-21	2,30	7,20	11,10	23,90	39,30
	Nov-21 to Dec-21	8,30	15,70	18,70	23,50	26,60
	Dec-21 to Jan-22	3,00	6,90	14,00	59,20	110,50
	Jan-22 to Feb-22	1,00	4,30	9,00	29,00	51,20
	Feb-22 to Mar-22	0,10	1,10	2,50	8,80	11,90
	Mar-22 to Apr-22	0,40	1,40	9,80	23,00	42,30
DB - 46	Jun-21 to Jul-21	2,20	48,10	64,80	145,50	212,60
	Jul-21 to Aug-21	1,70	1,70	23,00	156,30	197,60
	Aug-21 to Sep-21	3,50	12,50	20,00	45,90	54,00
	Sep-21 to Oct-21	1,90	10,40	16,90	34,30	46,60
	Oct-21 to Nov-21	2,30	7,00	9,90	16,80	19,30
	Nov-21 to Dec-21	6,30	12,30	15,40	21,00	21,60
	Dec-21 to Jan-22	3,00	7,60	10,60	17,60	18,90
	Jan-22 to Feb-22	0,90	3,30	10,00	42,60	74,60
	Feb-22 to Mar-22	0,10	0,10	1,00	15,10	19,40
	Mar-22 to Apr-22	0,40	2,80	9,90	20,70	38,70
DB - 47	Jun-21 to Jul-21	0,80	6,60	11,90	33,20	44,90
	Jul-21 to Aug-21	1,80	1,80	35,00	169,40	200,20
	Aug-21 to Sep-21	3,50	10,90	19,30	48,40	60,70
	Sep-21 to Oct-21	1,80	10,10	14,40	22,70	24,50
	Oct-21 to Nov-21	2,20	7,30	11,50	24,90	5,80
	Nov-21 to Dec-21	7,80	13,00	15,90	21,50	24,00
	Dec-21 to Jan-22	2,50	6,10	12,40	15,10	42,00
	Jan-22 to Feb-22	1,10	4,80	11,30	34,60	46,00
	Feb-22 to Mar-22	0,20	1,30	2,80	9,00	12,00
	Mar-22 to Apr-22	0,40	2,30	10,10	21,00	24,70
DB - 48	Jun-21 to Jul-21	1,00	21,00	30,40	71,90	107,00
	Jul-21 to Aug-21	1,80	5,90	18,00	61,00	77,00
	Aug-21 to Sep-21	3,50	10,30	17,80	42,20	52,10
	Sep-21 to Oct-21	2,00	15,00	23,20	59,00	78,70
	Oct-21 to Nov-21	2,20	6,50	9,30	23,10	38,50
	Nov-21 to Dec-21	5,20	12,00	15,60	22,30	24,20
	Dec-21 to Jan-22	2,90	9,70	16,00	46,50	74,30
	Jan-22 to Feb-22	1,00	4,60	10,20	32,00	50,50
	Feb-22 to Mar-22	0,10	0,20	0,20	21,80	60,10
	Mar-22 to Apr-22	0,30	2,00	9,80	25,00	27,90
DB - 49	Jun-21 to Jul-21	0,80	9,60	14,40	31,20	39,80
	Jul-21 to Aug-21	1,80	6,90	15,60	48,40	66,20

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GBN-JV PM Data						
Locality Name	Month	PM 1	PM 2.5	PM 4	PM 10	TSP
SANS Limits		-	-	-	75	-
	Aug-21 to Sep-21	3,50	11,70	19,80	46,10	56,60
	Sep-21 to Oct-21	1,90	8,10	15,00	34,30	52,80
	Oct-21 to Nov-21	2,30	7,10	10,00	14,50	17,00
	Nov-21 to Dec-21	8,60	14,50	19,80	42,60	67,90
	Dec-21 to Jan-22	3,00	8,90	15,20	39,50	41,40
	Jan-22 to Feb-22	0,90	5,30	10,20	24,10	30,60
	Feb-22 to Mar-22	0,10	1,20	2,40	7,90	11,50
	Mar-22 to Apr-22	0,30	2,70	7,40	27,00	31,10
DB - 50	Jun-21 to Jul-21	2,20	46,30	63,70	141,30	223,90
	Jul-21 to Aug-21	2,00	9,20	24,40	76,30	96,60
	Aug-21 to Sep-21	3,40	12,00	19,50	44,10	52,70
	Sep-21 to Oct-21	2,00	12,20	19,20	31,60	35,30
	Oct-21 to Nov-21	2,30	7,00	10,50	17,80	13,40
	Nov-21 to Dec-21	5,90	15,40	18,20	30,40	43,30
	Dec-21 to Jan-22	3,00	9,50	14,20	24,90	26,80
	Jan-22 to Feb-22	1,30	6,80	12,40	40,30	38,90
	Feb-22 to Mar-22	0,20	0,40	1,30	8,10	10,50
	Mar-22 to Apr-22	0,30	1,90	7,30	24,30	28,90
DB - 51	Jun-21 to Jul-21	0,80	6,70	17,00	62,90	93,70
	Jul-21 to Aug-21	1,70	4,40	13,80	46,00	66,90
	Aug-21 to Sep-21	1,90	11,30	18,30	30,50	34,20
	Sep-21 to Oct-21	2,20	7,30	10,20	13,10	16,80
	Oct-21 to Nov-21	2,20	7,30	10,20	13,10	16,80
	Nov-21 to Dec-21	3,90	9,00	11,70	16,30	18,70
	Dec-21 to Jan-22	2,80	12,90	17,10	32,90	47,10
	Jan-22 to Feb-22	0,90	3,80	8,50	22,00	31,90
	Feb-22 to Mar-22	0,20	2,40	4,40	15,70	30,10
	Mar-22 to Apr-22	0,30	1,80	6,50	22,20	23,70
DB - 52	Jun-21 to Jul-21	0,80	8,10	12,90	49,10	102,10
	Jul-21 to Aug-21	1,60	4,10	17,70	53,30	614,00
	Aug-21 to Sep-21	3,50	10,50	19,60	46,60	73,80
	Sep-21 to Oct-21	2,00	10,30	17,60	27,90	31,60
	Oct-21 to Nov-21	2,30	7,40	10,90	20,80	26,40
	Nov-21 to Dec-21	3,70	14,50	18,40	27,60	35,00
	Dec-21 to Jan-22	2,70	7,30	15,00	49,50	84,60
	Jan-22 to Feb-22	1,00	3,90	9,80	25,00	26,30
	Feb-22 to Mar-22	0,10	0,20	5,00	12,30	30,40
	Mar-22 to Apr-22	0,30	1,70	8,10	21,90	30,10
DB - 53	Jun-21 to Jul-21	0,60	3,30	7,40	20,20	30,10
	Jul-21 to Aug-21	2,60	19,90	28,40	58,70	69,80
	Aug-21 to Sep-21	3,50	10,60	17,90	44,00	57,50

GBN-JV PM Data						
Locality Name	Month	PM 1	PM 2.5	PM 4	PM 10	TSP
SANS Limits		-	-	-	75	-
	Sep-21 to Oct-21	1,80	11,00	19,00	37,10	50,70
	Oct-21 to Nov-21	2,10	5,30	12,60	38,70	59,60
	Nov-21 to Dec-21	3,10	7,30	10,80	17,90	22,20
	Dec-21 to Jan-22	2,60	7,80	12,30	25,80	40,60
	Jan-22 to Feb-22	0,90	4,90	9,90	23,80	28,70
	Feb-22 to Mar-22	0,10	0,60	2,00	5,20	8,70
	Mar-22 to Apr-22	0,40	1,50	6,20	22,70	28,30
DB - 54	Jun-21 to Jul-21	0,60	0,60	8,90	100,00	190,60
	Jul-21 to Aug-21	1,50	1,50	9,10	145,40	177,40
	Aug-21 to Sep-21	3,40	10,40	17,70	45,90	50,80
	Sep-21 to Oct-21	1,80	12,70	19,50	32,00	36,30
	Oct-21 to Nov-21	2,30	10,10	13,80	24,40	27,50
	Nov-21 to Dec-21	5,10	10,20	13,00	19,30	22,40
	Dec-21 to Jan-22	3,50	29,90	35,40	56,50	68,20
	Jan-22 to Feb-22	0,90	3,90	9,20	21,30	25,70
	Feb-22 to Mar-22	0,20	1,90	6,70	14,50	28,10
	Mar-22 to Apr-22	0,40	1,80	5,00	25,90	30,00
DB - 55	Jun-21 to Jul-21	0,90	8,90	19,50	70,50	101,30
	Jul-21 to Aug-21	2,70	26,30	57,40	162,30	206,60
	Aug-21 to Sep-21	3,40	12,00	19,60	44,90	57,30
	Sep-21 to Oct-21	2,00	15,50	26,10	59,80	82,60
	Oct-21 to Nov-21	2,20	7,00	10,10	14,60	15,80
	Nov-21 to Dec-21	5,40	10,40	14,30	21,40	25,10
	Dec-21 to Jan-22	3,20	10,50	17,90	41,30	54,20
	Jan-22 to Feb-22	0,90	4,60	9,50	23,10	30,00
	Feb-22 to Mar-22	0,20	1,10	4,10	10,40	22,80
	Mar-22 to Apr-22	0,30	1,70	8,50	24,10	27,50
DB - 56	Jun-21 to Jul-21	6,50	181,40	207,40	306,70	349,20
	Jul-21 to Aug-21	1,50	6,70	11,80	30,60	34,90
	Aug-21 to Sep-21	3,50	11,70	18,40	35,30	41,50
	Sep-21 to Oct-21	1,80	10,20	19,50	38,30	49,40
	Oct-21 to Nov-21	2,20	6,80	9,80	14,00	16,50
	Nov-21 to Dec-21	3,50	8,60	11,70	25,50	53,90
	Dec-21 to Jan-22	3,20	6,00	9,80	20,30	25,90
	Jan-22 to Feb-22	0,90	4,80	9,10	20,50	28,60
	Feb-22 to Mar-22	0,10	0,20	2,50	6,50	22,20
	Mar-22 to Apr-22	0,30	1,90	8,40	19,40	20,10
DB - 57	Jun-21 to Jul-21	0,70	4,00	12,30	42,00	64,20
	Jul-21 to Aug-21	1,40	4,30	9,30	21,10	29,70
	Aug-21 to Sep-21	3,50	10,80	17,50	35,50	46,60
	Sep-21 to Oct-21	1,80	11,40	18,90	26,70	27,30



GBN-JV PM Data						
Locality Name	Month	PM 1	PM 2.5	PM 4	PM 10	TSP
SANS Limits		-	-	-	75	-
	Oct-21 to Nov-21	2,30	10,80	14,20	20,80	23,90
	Nov-21 to Dec-21	4,80	10,40	13,00	17,70	25,10
	Dec-21 to Jan-22	3,20	5,90	10,10	31,70	58,80
	Jan-22 to Feb-22	0,90	4,80	9,70	21,20	23,00
	Feb-22 to Mar-22	0,20	3,10	5,50	21,40	23,00
	Mar-22 to Apr-22	0,50	1,40	10,10	30,40	32,00
DB - 58	Jun-21 to Jul-21	3,10	67,50	133,10	311,60	388,70
	Jul-21 to Aug-21	4,60	43,70	144,50	393,40	467,40
	Aug-21 to Sep-21	3,20	40,10	78,50	241,60	327,90
	Sep-21 to Oct-21	2,00	12,80	20,90	39,50	48,20
	Oct-21 to Nov-21	2,20	6,80	10,10	15,90	19,60
	Nov-21 to Dec-21	4,90	8,40	10,40	12,70	17,70
	Dec-21 to Jan-22	2,30	7,10	10,90	19,70	20,40
	Jan-22 to Feb-22	0,90	6,30	11,50	28,10	37,30
	Feb-22 to Mar-22	0,20	1,00	2,90	7,40	7,80
	Mar-22 to Apr-22	0,30	1,40	10,50	25,80	27,70
DB - 59	Jun-21 to Jul-21	0,90	10,90	28,30	103,00	157,30
	Jul-21 to Aug-21	2,30	11,40	19,80	46,00	57,70
	Aug-21 to Sep-21	3,80	52,90	87,70	302,00	474,30
	Sep-21 to Oct-21	1,90	11,00	17,30	25,30	31,40
	Oct-21 to Nov-21	2,20	6,90	16,90	42,80	53,90
	Nov-21 to Dec-21	3,80	7,40	9,30	17,90	24,70
	Dec-21 to Jan-22	2,20	7,80	14,80	39,10	56,90
	Jan-22 to Feb-22	0,80	4,50	8,90	25,60	36,70
	Feb-22 to Mar-22	0,20	0,70	1,70	5,90	6,50
	Mar-22 to Apr-22	0,30	1,50	7,50	20,10	22,60
DB - 60	Jun-21 to Jul-21	0,50	2,20	9,60	35,00	48,60
	Jul-21 to Aug-21	2,30	10,00	17,40	36,10	42,20
	Aug-21 to Sep-21	2,40	12,70	37,60	361,00	704,60
	Sep-21 to Oct-21	1,90	11,90	18,50	25,60	28,00
	Oct-21 to Nov-21	1,10	6,30	14,30	34,50	41,90
	Nov-21 to Dec-21	4,10	9,90	11,60	23,10	39,70
	Dec-21 to Jan-22	2,00	4,70	10,10	26,90	42,90
	Jan-22 to Feb-22	0,90	5,80	11,00	23,70	26,80
	Feb-22 to Mar-22	0,10	0,80	1,60	5,70	6,30
	Mar-22 to Apr-22	0,40	1,60	5,80	21,30	25,60
DB - 61	Jun-21 to Jul-21	1,90	41,20	66,70	214,70	360,80
	Jul-21 to Aug-21	2,20	7,80	15,30	32,90	36,00
	Aug-21 to Sep-21	2,30	10,80	29,00	90,80	124,10
	Sep-21 to Oct-21	1,90	11,20	18,90	29,50	33,80
	Oct-21 to Nov-21	1,00	4,80	15,20	48,60	66,40

GBN-JV PM Data						
Locality Name	Month	PM 1	PM 2.5	PM 4	PM 10	TSP
SANS Limits		-	-	-	75	-
	Nov-21 to Dec-21	2,00	4,80	7,30	16,70	23,50
	Dec-21 to Jan-22	2,80	7,10	10,30	20,40	30,00
	Jan-22 to Feb-22	0,80	5,10	9,50	20,30	26,50
	Feb-22 to Mar-22	0,10	0,60	1,80	5,20	6,40
	Mar-22 to Apr-22	0,40	1,50	11,00	29,70	38,70
DB - 62	Jun-21 to Jul-21	4,90	135,00	170,20	270,70	324,90
	Jul-21 to Aug-21	2,20	7,20	18,60	54,40	78,30
	Aug-21 to Sep-21	2,50	13,70	23,00	93,70	154,70
	Sep-21 to Oct-21	1,90	12,00	19,80	29,90	34,30
	Oct-21 to Nov-21	2,30	7,30	9,40	21,00	57,00
	Nov-21 to Dec-21	2,20	9,40	13,40	33,50	64,90
	Dec-21 to Jan-22	3,50	8,00	11,40	19,20	25,90
	Jan-22 to Feb-22	0,90	5,60	9,90	22,10	32,00
	Feb-22 to Mar-22	0,40	3,50	5,50	23,00	26,70
	Mar-22 to Apr-22	0,40	1,10	4,70	28,70	35,00
DB - 63	Jun-21 to Jul-21	1,30	28,20	48,10	120,50	166,80
	Jul-21 to Aug-21	2,50	2,50	39,90	739,30	1291,60
	Aug-21 to Sep-21	2,40	14,50	23,60	92,40	163,30
	Sep-21 to Oct-21	1,80	12,90	19,90	28,10	30,00
	Oct-21 to Nov-21	2,20	6,00	11,80	28,00	40,40
	Nov-21 to Dec-21	2,30	6,00	8,40	28,00	50,20
	Dec-21 to Jan-22	3,50	6,90	12,20	38,30	73,40
	Jan-22 to Feb-22	0,90	4,50	9,00	18,60	21,00
	Feb-22 to Mar-22	0,20	0,80	2,00	6,90	8,70
	Mar-22 to Apr-22	0,50	1,00	10,10	27,10	33,80
DB - 64	Jun-21 to Jul-21	0,60	2,10	7,90	29,70	45,70
	Jul-21 to Aug-21	2,60	15,60	37,70	152,40	227,00
	Aug-21 to Sep-21	2,10	10,60	18,10	59,10	86,20
	Sep-21 to Oct-21	1,80	12,30	21,80	35,90	42,00
	Oct-21 to Nov-21	2,30	15,10	27,20	64,00	89,30
	Nov-21 to Dec-21	2,50	6,80	10,40	30,20	56,10
	Dec-21 to Jan-22	3,70	8,00	11,20	19,90	22,30
	Jan-22 to Feb-22	0,90	4,60	9,00	24,40	32,50
	Feb-22 to Mar-22	0,30	2,30	4,80	14,80	22,20
	Mar-22 to Apr-22	0,40	1,10	8,70	22,90	29,90
DB - 65	Jun-21 to Jul-21	1,30	22,10	42,50	124,90	155,70
	Jul-21 to Aug-21	2,70	18,50	44,50	110,20	126,80
	Aug-21 to Sep-21	2,20	10,50	18,60	44,30	62,10
	Sep-21 to Oct-21	1,90	12,30	21,10	30,40	32,80
	Oct-21 to Nov-21	2,10	4,40	10,10	27,50	36,80
	Nov-21 to Dec-21	2,10	5,00	6,50	9,80	11,00

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Revision:	0.0		
Date:	April 2021 to March 2022		

GBN-JV PM Data						
Locality Name	Month	PM 1	PM 2.5	PM 4	PM 10	TSP
SANS Limits		-	-	-	75	-
	Dec-21 to Jan-22	3,50	7,80	11,00	18,20	20,00
	Jan-22 to Feb-22	0,80	4,10	9,20	24,30	32,90
	Feb-22 to Mar-22	0,20	0,50	3,00	17,80	21,50
	Mar-22 to Apr-22	0,30	1,10	6,50	30,00	57,00
DB - 66	Jun-21 to Jul-21	2,60	66,40	150,80	520,20	746,40
	Jul-21 to Aug-21	4,00	41,50	84,00	191,30	218,40
	Aug-21 to Sep-21	2,50	17,40	30,40	68,80	87,30
	Sep-21 to Oct-21	1,80	13,40	21,80	31,40	33,30
	Oct-21 to Nov-21	2,40	4,60	10,70	29,20	38,50
	Nov-21 to Dec-21	2,80	6,70	10,20	43,10	66,50
	Dec-21 to Jan-22	4,10	9,60	20,10	47,30	69,10
	Jan-22 to Feb-22	0,90	5,20	10,30	27,30	34,70
	Feb-22 to Mar-22	0,50	11,40	15,50	43,90	56,80
	Mar-22 to Apr-22	0,30	1,30	6,50	17,50	25,10
DB - 67	Jun-21 to Jul-21	0,60	3,20	13,80	57,50	82,20
	Jul-21 to Aug-21	1,80	5,10	13,60	58,70	102,50
	Aug-21 to Sep-21	2,40	12,60	24,80	66,90	89,70
	Sep-21 to Oct-21	1,80	13,00	21,10	34,50	38,80
	Oct-21 to Nov-21	2,20	5,40	11,30	25,00	32,40
	Nov-21 to Dec-21	2,20	5,00	8,20	33,30	61,10
	Dec-21 to Jan-22	3,50	7,70	10,40	17,30	18,50
	Jan-22 to Feb-22	0,80	3,30	9,20	36,90	77,00
	Feb-22 to Mar-22	0,40	1,70	8,50	56,80	78,40
	Mar-22 to Apr-22	0,30	1,40	7,80	26,10	36,20
DB - 68	Jun-21 to Jul-21	1,70	27,60	137,10	731,40	936,60
	Jul-21 to Aug-21	1,87	8,20	21,80	63,70	82,20
	Aug-21 to Sep-21	2,50	12,00	29,80	105,10	153,80
	Sep-21 to Oct-21	1,70	12,30	21,60	33,60	37,90
	Oct-21 to Nov-21	2,20	4,60	9,80	26,40	38,80
	Nov-21 to Dec-21	2,60	5,90	7,50	9,50	12,60
	Dec-21 to Jan-22	3,50	8,20	11,70	20,80	26,40
	Jan-22 to Feb-22	0,90	3,00	11,20	57,90	120,20
	Feb-22 to Mar-22	0,30	1,30	3,80	14,90	22,90
	Mar-22 to Apr-22	0,50	1,20	5,80	30,10	36,70
DB - 69	Jun-21 to Jul-21	0,40	2,50	6,70	25,00	32,30
	Jul-21 to Aug-21	1,70	9,10	14,90	33,80	46,80
	Aug-21 to Sep-21	2,70	16,30	31,60	89,80	128,00
	Sep-21 to Oct-21	1,90	17,90	28,30	50,50	60,90
	Oct-21 to Nov-21	2,30	4,30	10,40	27,70	32,70
	Nov-21 to Dec-21	3,20	8,90	12,50	29,80	49,50
	Dec-21 to Jan-22	3,80	6,10	11,10	15,50	18,60

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GBN-JV PM Data						
Locality Name	Month	PM 1	PM 2.5	PM 4	PM 10	TSP
SANS Limits		-	-	-	75	-
	Jan-22 to Feb-22	1,00	7,40	15,60	51,50	82,30
	Feb-22 to Mar-22	0,60	1,80	7,70	43,50	58,90
	Mar-22 to Apr-22	0,20	1,30	11,20	18,70	34,00
DB - 70	Jun-21 to Jul-21	0,70	4,70	28,90	151,90	212,90
	Jul-21 to Aug-21	1,90	2,50	25,10	56,40	77,30
	Aug-21 to Sep-21	2,70	13,50	30,00	97,00	137,70
	Sep-21 to Oct-21	1,70	12,30	20,60	26,20	28,10
	Oct-21 to Nov-21	2,10	5,20	11,40	29,00	34,50
	Nov-21 to Dec-21	2,70	9,30	13,60	40,10	69,10
	Dec-21 to Jan-22	4,00	5,70	12,20	15,70	17,30
	Jan-22 to Feb-22	0,90	5,60	12,30	31,50	43,20
	Feb-22 to Mar-22	0,30	3,90	6,20	20,50	22,90
	Mar-22 to Apr-22	0,20	1,20	8,70	26,30	30,10
DB - 71	Jun-21 to Jul-21	1,60	31,10	73,50	356,30	641,10
	Jul-21 to Aug-21	3,40	40,00	63,10	138,70	173,20
	Aug-21 to Sep-21	2,90	15,10	30,00	82,10	128,00
	Sep-21 to Oct-21	1,70	10,30	19,00	35,30	40,00
	Oct-21 to Nov-21	2,30	5,90	11,40	26,70	36,60
	Nov-21 to Dec-21	2,80	5,90	7,90	13,50	14,10
	Dec-21 to Jan-22	4,20	9,80	25,60	49,60	73,20
	Jan-22 to Feb-22	1,00	4,70	10,10	25,20	29,20
	Feb-22 to Mar-22	0,70	1,38	8,40	38,00	52,20
	Mar-22 to Apr-22	0,30	2,80	7,80	30,10	47,00
DB - 72	Jun-21 to Jul-21	5,60	184,00	262,80	688,40	966,40
	Jul-21 to Aug-21	3,40	47,40	64,60	160,40	220,80
	Aug-21 to Sep-21	3,60	11,00	18,10	38,60	52,10
	Sep-21 to Oct-21	1,70	10,60	16,70	22,30	26,00
	Oct-21 to Nov-21	2,30	4,00	9,80	28,50	32,80
	Nov-21 to Dec-21	2,50	6,10	8,70	22,20	38,80
	Dec-21 to Jan-22	3,70	7,90	11,20	18,70	21,80
	Jan-22 to Feb-22	0,90	4,30	9,10	25,50	34,70
	Feb-22 to Mar-22	0,30	1,20	4,90	25,00	29,90
	Mar-22 to Apr-22	0,40	2,40	13,20	28,70	38,90
DB - 73	Jun-21 to Jul-21	4,10	46,70	228,60	1007,20	1384,40
	Jul-21 to Aug-21	2,10	9,50	43,30	250,20	447,40
	Aug-21 to Sep-21	3,40	11,50	18,20	32,10	38,90
	Sep-21 to Oct-21	1,50	9,50	17,40	26,60	30,30
	Oct-21 to Nov-21	2,10	4,70	10,50	27,90	35,30
	Nov-21 to Dec-21	2,70	6,50	8,70	22,20	29,60
	Dec-21 to Jan-22	3,60	8,20	12,30	27,80	42,60
	Jan-22 to Feb-22	0,90	4,60	9,70	25,60	30,60

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Revision:	0.0		
Date:	April 2021 to March 2022		

GBN-JV PM Data						
Locality Name	Month	PM 1	PM 2.5	PM 4	PM 10	TSP
SANS Limits		-	-	-	75	-
	Feb-22 to Mar-22	0,90	20,50	22,20	33,30	35,80
	Mar-22 to Apr-22	0,10	1,80	9,00	30,00	41,40
DB - 74	Jun-21 to Jul-21	0,50	2,50	12,30	111,90	188,30
	Jul-21 to Aug-21	4,00	184,80	190,10	222,80	247,50
	Aug-21 to Sep-21	3,50	10,90	17,40	36,00	42,70
	Sep-21 to Oct-21	1,80	15,10	28,40	64,80	74,60
	Oct-21 to Nov-21	2,20	4,80	11,60	31,10	41,00
	Nov-21 to Dec-21	3,20	6,10	8,70	21,00	31,50
	Dec-21 to Jan-22	3,50	7,30	9,90	17,80	18,40
	Jan-22 to Feb-22	0,90	4,50	10,00	29,50	38,70
	Feb-22 to Mar-22	0,60	2,00	9,30	47,70	60,10
	Mar-22 to Apr-22	0,30	1,40	10,10	27,80	31,10
DB - 75	Jun-21 to Jul-21	0,50	1,50	11,40	46,30	70,30
	Jul-21 to Aug-21	1,50	4,00	11,70	32,80	43,90
	Aug-21 to Sep-21	3,70	16,70	28,00	66,60	103,6
	Sep-21 to Oct-21	1,70	14,20	21,50	34,20	39,10
	Oct-21 to Nov-21	2,20	4,40	11,50	31,10	40,40
	Nov-21 to Dec-21	3,60	6,80	9,60	26,70	45,20
	Dec-21 to Jan-22	2,50	4,90	11,50	22,70	30,40
	Jan-22 to Feb-22	1,00	4,70	9,90	28,60	34,80
	Feb-22 to Mar-22	0,40	1,80	8,70	53,40	75,30
	Mar-22 to Apr-22	0,50	1,20	10,80	29,10	35,60
DB - 76	Jun-21 to Jul-21	5,40	83,90	95,00	122,70	136,80
	Jul-21 to Aug-21	1,50	2,20	21,30	74,90	103,90
	Aug-21 to Sep-21	4,00	15,50	32,50	76,50	86,90
	Sep-21 to Oct-21	1,60	11,60	21,50	33,70	34,90
	Oct-21 to Nov-21	2,10	4,70	11,30	30,90	40,70
	Nov-21 to Dec-21	3,40	7,70	13,30	17,90	27,40
	Dec-21 to Jan-22	3,90	10,10	22,70	50,40	56,90
	Jan-22 to Feb-22	0,80	4,10	9,40	36,30	49,30
	Feb-22 to Mar-22	0,20	1,10	2,20	6,30	7,80
	Mar-22 to Apr-22	0,40	1,20	9,70	24,90	27,00
DB - 77	Jun-21 to Jul-21	4,40	94,00	165,90	421,40	544,10
	Jul-21 to Aug-21	2,30	6,40	10,70	26,20	36,70
	Aug-21 to Sep-21	1,70	9,30	15,30	35,80	46,20
	Sep-21 to Oct-21	0,50	2,50	4,50	14,50	22,50
	Oct-21 to Nov-21	1,10	6,40	16,00	37,00	48,70
	Nov-21 to Dec-21	0,90	3,10	5,30	14,90	19,30
	Dec-21 to Jan-22	3,00	12,80	16,00	24,90	41,70
	Jan-22 to Feb-22	1,00	6,20	12,10	38,90	57,40
	Feb-22 to Mar-22	0,40	1,70	5,50	22,80	28,90



GBN-JV PM Data						
Locality Name	Month	PM 1	PM 2.5	PM 4	PM 10	TSP
SANS Limits		-	-	-	75	-
	Mar-22 to Apr-22	0,10	1,30	12,00	25,30	29,30
DB - 78	Jun-21 to Jul-21	3,60	89,80	124,10	280,10	412,00
	Jul-21 to Aug-21	2,40	6,90	13,90	58,10	135,70
	Aug-21 to Sep-21	1,80	6,90	12,50	35,00	44,80
	Sep-21 to Oct-21	0,60	1,80	3,60	9,80	11,00
	Oct-21 to Nov-21	1,10	6,10	14,40	32,90	37,30
	Nov-21 to Dec-21	0,90	4,10	6,30	16,60	23,40
	Dec-21 to Jan-22	3,50	7,90	10,80	18,20	22,50
	Jan-22 to Feb-22	0,90	4,90	10,00	27,30	40,20
	Feb-22 to Mar-22	0,30	0,90	3,00	8,70	13,00
	Mar-22 to Apr-22	0,20	1,20	10,30	26,80	27,00
DB - 79	Jun-21 to Jul-21	2,50	27,80	34,30	54,90	65,40
	Jul-21 to Aug-21	2,20	11,90	26,70	216,70	474,90
	Aug-21 to Sep-21	3,00	97,10	103,60	144,30	195,50
	Sep-21 to Oct-21	0,60	2,00	3,40	7,50	11,20
	Oct-21 to Nov-21	1,30	6,50	14,90	39,40	49,90
	Nov-21 to Dec-21	1,10	8,40	10,10	16,00	20,30
	Dec-21 to Jan-22	3,40	7,20	10,00	15,60	17,40
	Jan-22 to Feb-22	1,00	4,00	12,00	61,90	120,50
	Feb-22 to Mar-22	0,30	0,90	2,70	9,30	11,70
	Mar-22 to Apr-22	0,10	2,40	11,40	30,20	40,70
DB - 80	Jun-21 to Jul-21	1,90	10,80	17,00	33,20	40,00
	Jul-21 to Aug-21	2,30	12,10	21,50	64,40	117,40
	Aug-21 to Sep-21	2,70	17,70	26,10	52,40	64,10
	Sep-21 to Oct-21	0,50	0,50	6,20	49,70	77,40
	Oct-21 to Nov-21	1,80	16,10	27,20	63,20	76,70
	Nov-21 to Dec-21	1,10	5,80	7,70	13,20	14,40
	Dec-21 to Jan-22	0,90	4,80	15,70	42,50	56,70
	Jan-22 to Feb-22	0,90	4,90	10,50	26,30	32,40
	Feb-22 to Mar-22	0,20	0,80	3,10	10,60	11,80
	Mar-22 to Apr-22	0,20	1,90	10,00	29,00	30,50
DB - 81	Jun-21 to Jul-21	1,40	5,10	18,10	54,00	64,50
	Jul-21 to Aug-21	2,30	9,40	17,60	50,00	78,40
	Aug-21 to Sep-21	2,30	14,20	21,60	48,40	60,10
	Sep-21 to Oct-21	0,50	0,90	5,60	18,60	23,50
	Oct-21 to Nov-21	1,20	5,30	15,40	43,40	57,00
	Nov-21 to Dec-21	0,80	3,80	5,80	13,30	17,70
	Dec-21 to Jan-22	0,80	5,70	12,20	24,20	30,40
	Jan-22 to Feb-22	1,10	8,60	25,10	74,40	85,50
	Feb-22 to Mar-22	0,30	0,90	4,10	13,10	18,90
	Mar-22 to Apr-22	0,20	1,40	8,70	28,70	29,10

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GBN-JV PM Data						
Locality Name	Month	PM 1	PM 2.5	PM 4	PM 10	TSP
SANS Limits		-	-	-	75	-
DB - 82	Jun-21 to Jul-21	2,00	16,70	26,50	56,20	66,70
	Jul-21 to Aug-21	2,40	6,90	14,90	35,30	39,60
	Aug-21 to Sep-21	1,80	7,30	17,40	45,50	49,20
	Sep-21 to Oct-21	0,60	2,50	10,90	42,40	50,40
	Oct-21 to Nov-21	1,20	7,70	17,10	39,50	45,60
	Nov-21 to Dec-21	0,80	3,00	5,80	16,60	25,90
	Dec-21 to Jan-22	0,80	5,60	11,70	16,80	20,50
	Jan-22 to Feb-22	1,10	4,20	24,50	27,90	40,30
	Feb-22 to Mar-22	0,20	1,00	2,70	10,40	11,60
	Mar-22 to Apr-22	0,20	1,30	14,10	31,70	40,00
DB - 83	Jun-21 to Jul-21	1,70	8,00	13,20	29,70	39,00
	Jul-21 to Aug-21	2,20	7,10	11,40	23,30	27,60
	Aug-21 to Sep-21	31,20	1,90	7,20	13,50	28,10
	Sep-21 to Oct-21	0,60	1,60	5,20	18,00	22,90
	Oct-21 to Nov-21	1,10	6,50	15,70	36,90	46,10
	Nov-21 to Dec-21	0,80	3,70	6,40	14,90	24,70
	Dec-21 to Jan-22	0,90	6,30	11,50	17,50	19,90
	Jan-22 to Feb-22	1,10	6,70	12,50	26,60	33,40
	Feb-22 to Mar-22	0,30	1,10	5,90	41,50	80,30
	Mar-22 to Apr-22	0,20	1,80	10,80	30,00	35,80
DB - 84	Jun-21 to Jul-21	1,70	8,10	21,90	78,20	98,50
	Jul-21 to Aug-21	1,60	2,70	11,80	99,20	188,00
	Aug-21 to Sep-21	2,30	8,70	17,10	79,40	140,40
	Sep-21 to Oct-21	0,80	2,80	5,70	17,30	23,40
	Oct-21 to Nov-21	-	-	-	-	-
	Nov-21 to Dec-21	0,70	2,40	4,10	11,60	12,90
	Dec-21 to Jan-22	0,70	6,10	10,20	16,20	16,80
	Jan-22 to Feb-22	-	-	-	-	-
	Feb-22 to Mar-22	-	-	-	-	-
	Mar-22 to Apr-22	0,20	2,00	11,10	29,70	30,00
DB - 85	Jun-21 to Jul-21	1,50	5,30	15,80	55,50	84,40
	Jul-21 to Aug-21	2,20	19,80	30,80	101,80	194,80
	Aug-21 to Sep-21	2,30	14,40	21,90	51,60	79,90
	Sep-21 to Oct-21	0,70	3,30	5,50	11,00	19,00
	Oct-21 to Nov-21	-	-	-	-	-
	Nov-21 to Dec-21	0,80	3,00	4,70	8,30	10,80
	Dec-21 to Jan-22	0,70	4,90	9,70	15,50	17,30
	Jan-22 to Feb-22	-	-	-	-	-
	Feb-22 to Mar-22	-	-	-	-	-
	Mar-22 to Apr-22	0,20	1,40	9,00	26,00	27,00
DB - 86	Jun-21 to Jul-21	5,80	52,30	82,00	156,20	175,30

GBN-JV PM Data						
Locality Name	Month	PM 1	PM 2.5	PM 4	PM 10	TSP
SANS Limits		-	-	-	75	-
	Jul-21 to Aug-21	1,60	6,40	15,70	93,00	176,20
	Aug-21 to Sep-21	2,60	16,20	25,60	53,40	79,30
	Sep-21 to Oct-21	0,70	3,00	4,80	8,40	9,70
	Oct-21 to Nov-21	4,60	52,80	66,90	105,30	125,60
	Nov-21 to Dec-21	0,70	2,10	3,10	5,70	7,50
	Dec-21 to Jan-22	0,80	5,40	10,80	15,70	17,60
	Jan-22 to Feb-22	0,90	5,30	13,40	57,10	57,10
	Feb-22 to Mar-22	0,40	1,40	4,10	12,90	17,80
	Mar-22 to Apr-22	0,20	1,30	15,00	27,00	31,00
DB - 87	Jun-21 to Jul-21	2,30	2,30	2,30	785,00	1254,00
	Jul-21 to Aug-21	3,60	33,40	66,90	393,30	851,30
	Aug-21 to Sep-21	3,30	20,80	45,80	98,20	110,50
	Sep-21 to Oct-21	1,30	7,20	28,20	85,50	107,10
	Oct-21 to Nov-21	2,70	39,10	64,30	146,60	188,50
	Nov-21 to Dec-21	0,50	2,10	3,30	4,40	4,40
	Dec-21 to Jan-22	1,20	10,40	17,10	33,70	41,70
	Jan-22 to Feb-22	1,30	13,10	30,30	87,60	105,50
	Feb-22 to Mar-22	0,40	2,30	7,80	25,20	30,00
	Mar-22 to Apr-22	0,40	1,80	5,80	24,00	30,40
DB - 88	Jun-21 to Jul-21	1,50	1,50	24,50	160,60	201,90
	Jul-21 to Aug-21	1,60	1,60	16,20	216,30	458,50
	Aug-21 to Sep-21	2,40	9,70	17,00	37,60	45,00
	Sep-21 to Oct-21	1,40	17,50	25,90	53,70	68,50
	Oct-21 to Nov-21	1,20	11,00	25,30	75,10	94,80
	Nov-21 to Dec-21	0,60	3,30	4,90	8,20	11,30
	Dec-21 to Jan-22	1,20	5,40	11,80	20,60	23,70
	Jan-22 to Feb-22	1,00	6,90	15,40	45,20	52,00
	Feb-22 to Mar-22	0,40	2,10	8,20	24,30	28,70
	Mar-22 to Apr-22	0,50	2,40	6,70	23,20	27,50
DB - 89	Jun-21 to Jul-21	1,60	3,90	15,20	92,40	146,70
	Jul-21 to Aug-21	1,20	5,30	9,80	27,60	41,80
	Aug-21 to Sep-21	2,90	19,50	40,00	162,20	283,60
	Sep-21 to Oct-21	0,90	6,70	8,80	13,50	20,90
	Oct-21 to Nov-21	1,20	7,60	19,30	51,60	66,40
	Nov-21 to Dec-21	0,70	4,40	9,60	47,60	66,70
	Dec-21 to Jan-22	1,20	7,70	14,60	25,40	31,00
	Jan-22 to Feb-22	1,10	7,90	22,20	77,30	111,30
	Feb-22 to Mar-22	0,20	2,10	9,00	12,10	14,50
	Mar-22 to Apr-22	0,30	2,90	15,80	29,10	38,20
	Apr-22 to May-22	0,40	1,80	10,10	28,80	40,10
DB - 90	Jun-21 to Jul-21	80,80	2,30	14,70	24,20	59,80

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GBN-JV PM Data						
Locality Name	Month	PM 1	PM 2.5	PM 4	PM 10	TSP
SANS Limits		-	-	-	75	-
	Jul-21 to Aug-21	1,40	5,60	11,50	25,30	30,20
	Aug-21 to Sep-21	1,60	10,50	20,80	50,10	57,50
	Sep-21 to Oct-21	1,50	16,80	23,00	43,80	54,90
	Oct-21 to Nov-21	1,40	10,10	22,10	48,70	57,90
	Nov-21 to Dec-21	0,60	2,30	4,10	9,90	16,70
	Dec-21 to Jan-22	0,70	6,50	10,30	16,70	21,10
	Jan-22 to Feb-22	1,00	4,90	13,40	41,30	47,50
	Feb-22 to Mar-22	0,60	2,00	9,40	64,20	84,20
	Mar-22 to Apr-22	0,40	1,30	4,90	26,70	42,20
DB - 91	Jun-21 to Jul-21	1,40	2,50	13,80	48,00	100,00
	Jul-21 to Aug-21	1,80	14,10	31,10	121,90	190,90
	Aug-21 to Sep-21	1,80	13,20	25,60	100,50	168,30
	Sep-21 to Oct-21	1,30	6,50	9,40	18,30	31,80
	Oct-21 to Nov-21	1,30	9,90	25,90	83,60	112,50
	Nov-21 to Dec-21	0,70	2,20	4,80	14,70	20,90
	Dec-21 to Jan-22	0,70	4,20	8,90	14,10	14,70
	Jan-22 to Feb-22	0,90	4,90	10,50	25,60	28,10
	Feb-22 to Mar-22	0,90	3,80	11,50	58,00	86,00
	Mar-22 to Apr-22	0,50	1,60	6,60	30,40	32,70
DB - 92	Jun-21 to Jul-21	2,60	37,20	60,00	137,00	167,20
	Jul-21 to Aug-21	1,90	9,00	27,20	82,70	112,90
	Aug-21 to Sep-21	2,00	15,10	41,50	136,00	180,50
	Sep-21 to Oct-21	2,00	13,80	22,10	39,90	44,80
	Oct-21 to Nov-21	1,40	10,40	26,60	71,90	86,70
	Nov-21 to Dec-21	0,50	2,40	4,50	10,10	17,30
	Dec-21 to Jan-22	1,40	7,30	14,10	23,70	25,50
	Jan-22 to Feb-22	1,10	10,20	17,20	34,80	41,60
	Feb-22 to Mar-22	1,10	6,30	10,70	29,70	34,70
	Mar-22 to Apr-22	0,30	2,50	7,40	30,10	47,30
DB - 93	Jun-21 to Jul-21	12,90	187,70	215,00	292,40	334,30
	Jul-21 to Aug-21	2,50	15,40	34,70	95,80	112,30
	Aug-21 to Sep-21	2,00	21,30	57,80	219,10	301,70
	Sep-21 to Oct-21	1,60	9,10	17,30	35,30	41,70
	Oct-21 to Nov-21	1,30	9,50	24,20	54,30	72,80
	Nov-21 to Dec-21	0,90	4,60	10,50	37,10	55,60
	Dec-21 to Jan-22	2,50	9,20	18,80	47,70	92,10
	Jan-22 to Feb-22	1,00	8,00	13,30	29,40	44,80
	Feb-22 to Mar-22	1,40	2,80	10,40	45,10	55,00
	Mar-22 to Apr-22	1,10	3,20	15,80	32,50	41,20
	Apr-22 to May-22	0,30	4,20	5,80	28,70	25,90
DB - 94	Jun-21 to Jul-21	2,10	15,30	36,10	169,70	322,50

GBN-JV PM Data						
Locality Name	Month	PM 1	PM 2.5	PM 4	PM 10	TSP
SANS Limits		-	-	-	75	-
	Jul-21 to Aug-21	10,00	62,80	103,00	168,50	185,10
	Aug-21 to Sep-21	3,00	34,20	81,10	225,40	277,80
	Sep-21 to Oct-21	1,70	10,10	21,10	41,30	46,80
	Oct-21 to Nov-21	1,30	9,70	24,70	64,50	76,20
	Nov-21 to Dec-21	0,70	2,80	5,50	13,00	13,00
	Dec-21 to Jan-22	3,70	11,80	19,70	32,30	34,10
	Jan-22 to Feb-22	1,00	6,10	12,20	30,70	34,40
	Feb-22 to Mar-22	1,30	3,50	7,70	19,90	21,70
	Mar-22 to Apr-22	0,30	5,40	5,90	27,00	24,30
DB - 95	Jun-21 to Jul-21	20,20	238,60	788,70	2424,00	2965,80
	Jul-21 to Aug-21	2,90	29,00	70,10	180,10	207,30
	Aug-21 to Sep-21	7,60	108,60	306,20	943,90	885,20
	Sep-21 to Oct-21	2,00	11,40	25,80	65,30	83,20
	Oct-21 to Nov-21	1,30	9,50	23,50	63,20	102,00
	Nov-21 to Dec-21	1,20	3,80	15,90	67,60	100,90
	Dec-21 to Jan-22	1,90	8,50	16,90	28,00	31,70
	Jan-22 to Feb-22	1,10	8,00	18,20	54,70	98,40
	Feb-22 to Mar-22	1,60	4,10	10,10	22,30	24,80
	Mar-22 to Apr-22	0,40	6,10	7,90	27,90	43,00
DB - 96	Jun-21 to Jul-21	5,60	74,60	90,00	145,20	180,30
	Jul-21 to Aug-21	4,70	23,00	59,10	166,00	191,90
	Aug-21 to Sep-21	7,40	36,10	58,90	99,90	111,60
	Sep-21 to Oct-21	1,60	8,60	13,10	24,00	26,50
	Oct-21 to Nov-21	0,80	4,90	11,60	35,00	41,80
	Nov-21 to Dec-21	0,80	2,50	5,70	20,00	31,10
	Dec-21 to Jan-22	0,80	9,20	14,00	26,90	31,20
	Jan-22 to Feb-22	1,00	9,60	34,50	58,20	99,00
	Feb-22 to Mar-22	0,10	0,40	1,10	3,20	3,40
	Mar-22 to Apr-22	0,40	4,30	8,50	45,00	80,00
DB - 97	Jun-21 to Jul-21	1,80	10,90	22,50	68,70	102,60
	Jul-21 to Aug-21	2,50	8,30	14,50	37,50	58,40
	Aug-21 to Sep-21	2,20	10,60	21,40	51,60	69,50
	Sep-21 to Oct-21	0,50	1,80	3,30	8,90	15,70
	Oct-21 to Nov-21	1,30	7,40	16,10	33,20	38,10
	Nov-21 to Dec-21	0,80	3,20	4,70	9,60	12,70
	Dec-21 to Jan-22	0,90	4,70	10,40	18,40	20,90
	Jan-22 to Feb-22	1,10	6,80	12,60	26,50	33,90
	Feb-22 to Mar-22	0,20	0,60	3,40	10,30	10,30
	Mar-22 to Apr-22	0,50	5,40	7,20	38,10	27,70
DB - 98	Jun-21 to Jul-21	1,50	7,20	17,20	48,20	63,60
	Jul-21 to Aug-21	2,30	9,80	15,10	36,60	49,60

GBN-JV PM Data						
Locality Name	Month	PM 1	PM 2.5	PM 4	PM 10	TSP
SANS Limits		-	-	-	75	-
	Aug-21 to Sep-21	2,20	14,70	22,90	50,60	69,10
	Sep-21 to Oct-21	0,60	2,10	4,50	15,50	22,20
	Oct-21 to Nov-21	1,20	6,40	16,10	45,00	63,50
	Nov-21 to Dec-21	-	-	-	-	-
	Dec-21 to Jan-22	-	-	-	-	-
	Jan-22 to Feb-22	0,90	5,00	10,50	22,30	27,90
	Feb-22 to Mar-22	0,20	0,80	3,10	8,80	10,70
	Mar-22 to Apr-22	0,50	7,60	6,40	24,50	32,40
DB - 99	Jun-21 to Jul-21	7,00	18,50	145,00	258,90	324,90
	Jul-21 to Aug-21	1,30	2,20	19,30	76,40	107,20
	Aug-21 to Sep-21	2,70	16,60	27,50	60,20	70,60
	Sep-21 to Oct-21	0,90	3,60	8,80	22,30	26,60
	Oct-21 to Nov-21	5,10	84,10	105,00	172,10	194,20
	Nov-21 to Dec-21	0,60	1,60	5,50	16,50	13,60
	Dec-21 to Jan-22	1,20	4,50	9,90	15,40	16,60
	Jan-22 to Feb-22	1,60	8,00	33,10	101,80	124,00
	Feb-22 to Mar-22	0,60	2,90	9,30	40,70	47,50
	Mar-22 to Apr-22	0,40	5,20	9,30	32,30	44,00
DB - 100	Jun-21 to Jul-21	2,20	10,10	18,60	46,70	57,80
	Jul-21 to Aug-21	1,70	14,10	25,50	76,70	121,70
	Aug-21 to Sep-21	1,50	9,20	19,00	41,10	55,30
	Sep-21 to Oct-21	1,30	6,20	9,10	18,20	21,90
	Oct-21 to Nov-21	1,60	10,90	26,10	56,00	60,90
	Nov-21 to Dec-21	0,80	2,90	5,60	12,50	14,30
	Dec-21 to Jan-22	0,60	4,20	8,60	13,80	15,60
	Jan-22 to Feb-22	1,00	6,10	12,90	28,80	50,40
	Feb-22 to Mar-22	0,80	2,40	6,20	14,10	17,10
	Mar-22 to Apr-22	0,5	8,1	12	22,3	33,3
Average		2,20	12,00	24,03	69,10	96,02



### 7.2.2. E-Sampler PM Monitoring

The following results are present for the July 2021 to April 2022 period related to stations:

- ES01 (Thaba Tholo School);
- ES02 (Eskom – Medupi Power Station); and
- ES03 (Mooivalei).

All three (3) E-sampler localities recorded general low daily PM<sub>10</sub> readings with some influences (peaks) noted:

- ES01 (School): E-Sampler data recorded very low PM<sub>10</sub> data throughout the sampling period with a median of 0.0135 mg/m<sup>3</sup> (Table 7 below). During the monitoring period, some spikes were however recorded. The two (2) most notable spikes included a value of 0.440 mg/m<sup>3</sup> recorded on the 24<sup>th</sup> of August 2021 and a value of 0.652 mg/m<sup>3</sup> recorded on the 2<sup>nd</sup> of January 2022. The spikes recorded at the locality do not continue for more than 30 minutes and therefore the source of the elevated dust is attributed to the nearby dirt road as well as possible activities occurring within the school.
- ES02 (Eskom – Medupi Power Station): Particular matter levels remained low during the majority of the sampling period presenting a similar median of 0.014 mg/m<sup>3</sup> (Table 7 below) as ES01. The most definitive spikes were present with a value of 0.773 mg/m<sup>3</sup> on the 28<sup>th</sup> of August 2021, 0.517 mg/m<sup>3</sup> on the 16<sup>th</sup> of October, 0.617 on the 6<sup>th</sup> of November and 0.562 mg/m<sup>3</sup> being recorded on the 22<sup>nd</sup> of February 2022. The spikes recorded at the monitoring locality can be attributed to a nearby farm road as well as the close proximity to agricultural farmland; and
- ES03 (Mooivalei): Recorded concentrations measured during the monitoring period remained very low with a Median of 0.011 mg/m<sup>3</sup> being recorded. During the monitoring period, the most notable spikes included a measurement of 0.422 mg/m<sup>3</sup> and 0.671 mg/m<sup>3</sup> on the 14<sup>th</sup> and 15<sup>th</sup> of October 2021 respectively. The spikes recorded at the locality are expected to be attributed to bare soil in the surrounding area which will elevate dust levels when high winds and gusts occur.

The low concentrations are expected due to the study being a baseline assessment and with no construction works being near either monitoring localities. Results are however expected to fluctuate during the year cycle due to the seasonality of precipitation and wind fluctuations.

The results from the handheld PM reader are on average higher than the average PM readings obtained from the E-Samplers (as seen in Table 7 below). The higher measurements are attributed to multiple factors which include the active indicative monitoring (time and day dependant) of the handheld PM readings recorded at each the dust stands where the majority is located along dirt roads where elevated PM readings expected, whereas the E-Samplers are located in fenced areas further away from roads. Additionally, the handheld PM reading takes the average PM reading over one (1) minute whereas the E-Sampler is calculated over 30 days, therefore the handheld PM meter readings are easily heightened due to disturbances such as vehicles or wind in the area and represents an indicative time dependant snapshot.

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Table 7: Annual E-Sampler PM<sub>10</sub> Summary

Locality	MAX	AVE	MEDIAN
School	0,652	0,020	0,0135
Eskom - Medupi	0,773	0,018	0,0140
Mooivalei	0,671	0,015	0,0110

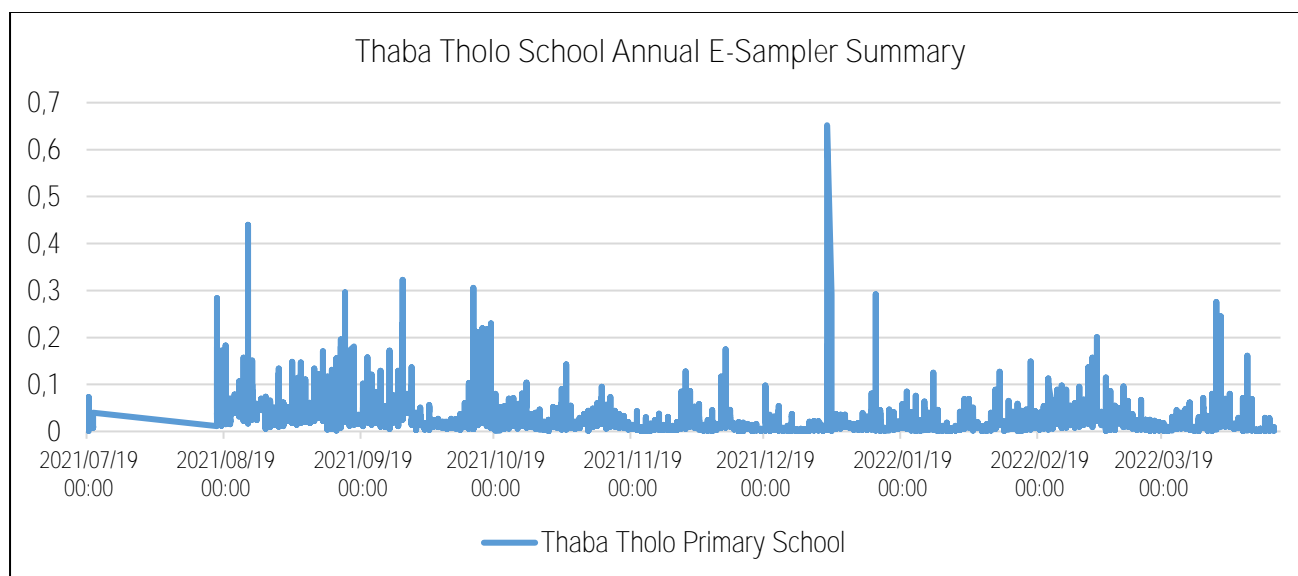


Figure 5: ES01 (Thaba Tholo Primary School) E-Sampler PM<sub>10</sub> Data

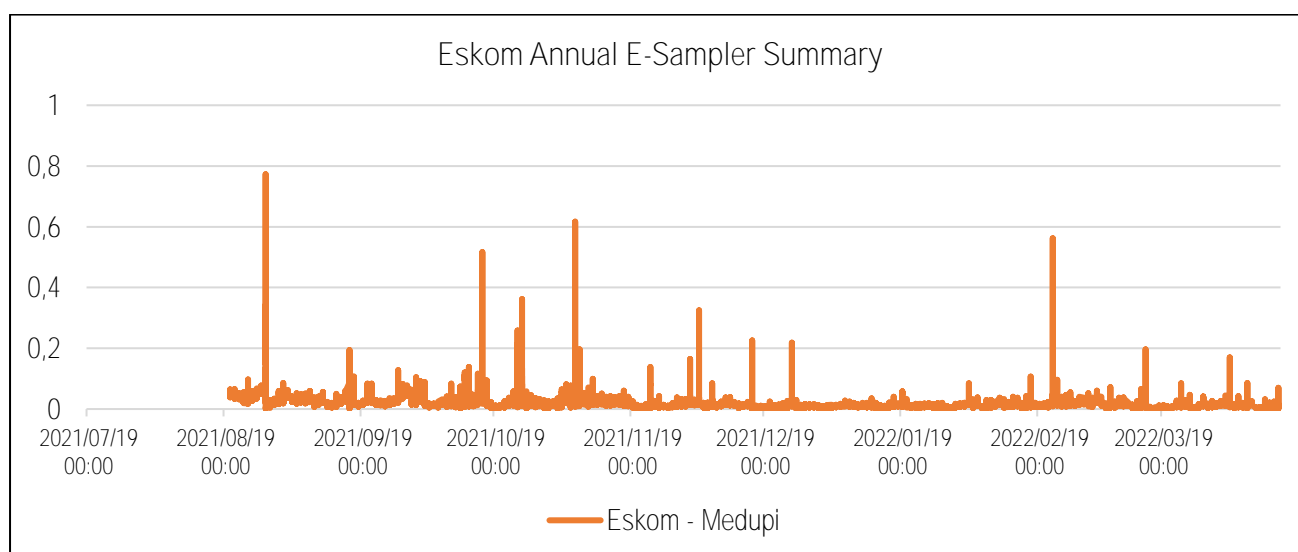


Figure 6: ES02 (Eskom – Medupi Power Station) E-Sampler PM<sub>10</sub> Data

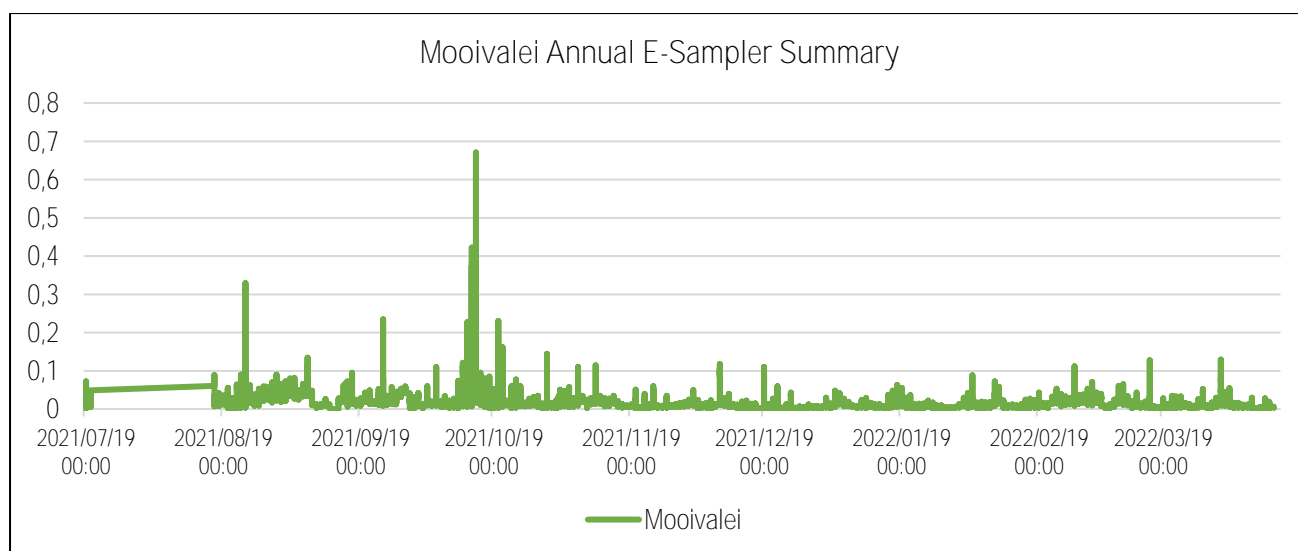


Figure 7: ES03 (Mooivalei) E-Sampler PM<sub>10</sub> Data

### 7.3. GRAVIMETRIC DUST FALLOUT RESULTS

The annual baseline monitoring period was conducted from March 2021 to April 2022. During the monitoring period, the majority of localities recorded ideal dust fallout levels (Below both the Residential and Industrial Limits). An annual average of 183 mg/m<sup>2</sup>/day was recorded across all localities with the highest dust fallout being recorded at 2437 mg/m<sup>2</sup>/day during the November 2021 to December 2021 monitoring period from DB87. Generally sampling localities DB86, DB87 and DB99 recorded higher dust fallout concentration compared to the remaining monitoring points. All of the aforementioned monitoring localities are situated in close proximity to active dirt roads which will cause of the elevated levels and exceedances recorded at the localities.

Gravimetric dust fallout can be classified according to SANS 1929: 2011 standard into four categories or levels. The first category consists of monitoring stand values that are below 600 mg/m<sup>2</sup>/day and thus can be classified as Ideal namely:

- The majority of the monitoring localities fell into this category during the annual period.

The second category consists of monitoring points with gravimetric dust fallout between 600 mg/m<sup>2</sup>/day and 1200 mg/m<sup>2</sup>/day. This category can be classified as Acceptable to Tolerable.

- DB2: October to November 2021 and January to February 2022;
- DB4: October to November 2021;
- DB5 and DB14: January to February 2022
- DB16, DB20, DB92 and DB97: November to December 2021;
- DB32: September to October 2021;
- DB72 and DB78: December 2021 to January 2022;
- DB86: April to October 2021, November to December 2021 and February to March 2022
- DB87: October to November 2021 and March to April 2022;
- DB95: May to June 2021 and July to August 2021; and

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- DB99: April to May 2021, June to July 2021, August to October 2021, December 2021 to February 2022 and March to April 2022.

The third category consists of monitoring points with gravimetric dust fallout between 1200 mg/m<sup>2</sup>/day and 2400 mg/m<sup>2</sup>/day. This category can be classified as unacceptable and must be reported if it continues for more than two consecutive months or three months in total per year.

- DB4: August to September 2021;
- DB87: April to October 2021 and January to March 2022;
- DB88: December 2021 to January 2022; and
- DB99: May to June 2021 and July to August 2021.

The fourth category consists of monitoring points exceeding dust fallout of 2400 mg/m<sup>2</sup>/day. This category is classified as alert, immediate action and remediation required followed the first incident of dust fallout exceedance.

- DB87: November to December 2021.

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Table 8: Gravimetric Dust Fallout Results

GBN-JV Air Quality Results													
Gravimetric Dust Fallout (mg/m <sup>2</sup> /day)													
Location	Apr-21 to May-21	May-21 to Jun-21	Jun-21 to Jul-21	July-21 to Aug-21	Aug-21 to Sep-21	Sep-21 to Oct-21	Oct-21 to Nov-21	Nov-21 to Dec-21	Dec-21 to Jan-21	Jan-22 to Feb-22	Feb-22 to Mar-22	Mar-22 to Apr-22	Average
DB - 1	21	5	86	147	187	Stolen	292	198	Stolen	240	104	181	146
DB - 2	170	297	543	404	503	423	730	507	221	783	377	472	453
DB - 3	27	126	190	212	427	372	377	233	123	223	209	197	226
DB - 4	75	137	Stolen	277	1360	381	1103	237	141	238	290	227	406
DB - 5	127	107	365	165	195	321	339	270	120	1052	296	434	316
DB - 6	41	137	200	231	288	281	272	331	145	234	420	283	239
DB - 7	134	98	198	218	279	379	168	269	151	246	199	216	213
DB - 8	61	10	135	113	189	419	155	223	68	172	244	177	164
DB - 9	91	9	140	216	184	413	232	259	66	195	335	214	196
DB - 10	46	126	128	219	193	388	190	211	104	207	152	168	178
DB - 11	Installed	161	55	295	215	340	187	129	120	204	209	165	189
DB - 12	Not Installed	Not Installed	Installed	90	242	348	187	235	188	132	241	199	207
DB - 13	Not Installed	Not Installed	Installed	487	376	429	397	210	61	279	235	196	297
DB - 14	Not Installed	Not Installed	Not Installed	Installed	143	311	161	399	112	930	207	412	334
DB - 15	6	277	47	171	138	255	No Access	320	162	120	102	No Access	160
DB - 16	10	281	27	168	123	379	No Access	740	154	104	124	No Access	211
DB - 17	11	88	15	150	153	268	No Access	No Access	Stolen Stand	Stolen Stand	Stolen Stand	Stolen Stand	114
DB - 18	39	331	61	96	106	334	117	135	134	99	128	124	142
DB - 19	5	273	22	59	52	216	126	188	50	118	112	117	111
DB - 20	14	290	99	119	65	213	289	703	185	74	96	264	201
DB - 21	12	305	103	121	108	235	374	241	293	108	131	193	185

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GBN-JV Air Quality Results													
Gravimetric Dust Fallout (mg/m²/day)													
Location	Apr-21 to May-21	May-21 to Jun-21	Jun-21 to Jul-21	July-21 to Aug-21	Aug-21 to Sep-21	Sep-21 to Oct-21	Oct-21 to Nov-21	Nov-21 to Dec-21	Dec-21 to Jan-21	Jan-22 to Feb-22	Feb-22 to Mar-22	Mar-22 to Apr-22	Average
DB - 22	14	155	104	113	94	319	80	152	53	129	95	107	118
DB - 23	2	300	106	109	106	292	193	106	212	122	103	136	149
DB - 24	11	392	149	172	175	342	32	182	133	141	138	149	168
DB - 25	7	476	95	124	125	336	236	165	68	88	163	121	167
DB - 26	4	324	33	183	113	261	173	105	44	116	136	100	133
DB - 27	14	457	107	128	75	269	27	137	107	128	161	133	145
DB - 28	18	301	29	113	119	230	105	144	177	123	139	146	137
DB - 29	4	337	6	95	95	180	86	107	63	91	102	91	105
DB - 30	92	338	36	105	127	221	170	118	44	117	101	95	130
DB - 31	13	488	88	82	76	280	5	149	7	123	98	94	125
DB - 32	244	335	165	206	243	729	567	389	207	252	350	299	332
DB - 33	10	479	103	96	125	592	254	210	219	150	162	185	215
DB - 34	13	18	3	79	169	184	176	119	129	73	102	106	98
DB - 35	11	7	39	49	82	196	14	114	29	33	117	73	64
DB - 36	2	18	28	61	98	212	91	295	128	106	151	170	113
DB - 37	8	8	12	52	74	216	237	106	Bucket Stolen	Bucket Stolen	61	83	86
DB - 38	8	104	26	54	83	246	57	106	130	91	100	107	93
DB - 39	5	92	19	96	75	281	96	110	83	87	67	87	92
DB - 40	3	18	17	43	18	Bucket Stolen	58	108	198	62	84	113	66
DB - 41	3	101	11	34	100	211	46	75	126	119	89	102	85
DB - 42	10	248	13	65	53	241	48	57	41	45	92	59	81
DB - 43	9	91	13	58	66	249	109	165	166	33	75	110	95
DB - 44	7	98	13	39	63	396	126	179	34	83	87	96	102

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GBN-JV Air Quality Results													
Gravimetric Dust Fallout (mg/m²/day)													
Location	Apr-21 to May-21	May-21 to Jun-21	Jun-21 to Jul-21	July-21 to Aug-21	Aug-21 to Sep-21	Sep-21 to Oct-21	Oct-21 to Nov-21	Nov-21 to Dec-21	Dec-21 to Jan-21	Jan-22 to Feb-22	Feb-22 to Mar-22	Mar-22 to Apr-22	Average
DB - 45	14	86	4	59	78	215	89	122	66	96	94	95	85
DB - 46	7	238	18	60	48	230	63	140	48	63	102	88	92
DB - 47	6	245	21	62	48	203	84	83	32	51	85	63	82
DB - 48	15	240	4	55	63	224	304	113	149	74	59	99	117
DB - 49	3	277	10	75	69	203	13	100	172	115	139	132	109
DB - 50	1	80	20	96	112	209	45	132	36	Bucket Stolen	83	83	81
DB - 51	1	268	16	98	74	223	93	124	67	127	77	99	105
DB - 52	42	111	23	94	11	216	40	97	Bucket Stolen	332	88	172	111
DB - 53	11	289	24	108	88	312	145	134	69	260	196	165	150
DB - 54	13	78	52	74	61	216	60	107	10	103	97	79	79
DB - 55	8	247	6	98	23	209	72	135	116	17	256	131	110
DB - 56	8	282	30	141	83	194	80	79	176	45	196	124	120
DB - 57	6	258	95	84	30	199	139	126	123	41	144	108	113
DB - 58	3	309	70	161	79	227	161	289	122	93	164	167	154
DB - 59	1	15	114	89	148	228	99	95	149	61	105	102	101
DB - 60	6	19	113	122	46	269	108	80	152	40	138	102	100
DB - 61	5	244	185	82	53	202	90	154	389	79	101	181	147
DB - 62	10	73	2	33	48	185	83	81	50	53	74	64	63
DB - 63	4	269	9	31	70	254	77	41	191	55	97	96	100
DB - 64	11	158	4	50	78	209	76	152	419	44	127	185	126
DB - 65	13	98	13	147	102	215	48	171	156	52	100	120	103
DB - 66	168	237	9	179	84	200	21	140	99	62	91	98	116
DB - 67	14	267	14	167	62	196	72	112	178	73	137	125	118

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GBN-JV Air Quality Results													
Gravimetric Dust Fallout (mg/m²/day)													
Location	Apr-21 to May-21	May-21 to Jun-21	Jun-21 to Jul-21	July-21 to Aug-21	Aug-21 to Sep-21	Sep-21 to Oct-21	Oct-21 to Nov-21	Nov-21 to Dec-21	Dec-21 to Jan-21	Jan-22 to Feb-22	Feb-22 to Mar-22	Mar-22 to Apr-22	Average
DB - 68	10	267	23	128	55	281	48	43	27	79	99	62	93
DB - 69	6	295	33	170	73	Stolen	36	114	99	61	56	83	93
DB - 70	85	159	76	230	76	475	47	81	151	52	65	87	132
DB - 71	13	294	13	166	51	170	47	41	217	35	108	100	105
DB - 72	13	195	39	155	27	263	61	68	1187	60	39	338	204
DB - 73	48	261	17	135	36	165	59	90	94	27	38	62	86
DB - 74	3	285	56	132	33	171	67	81	356	90	97	156	127
DB - 75	39	16	104	172	72	Bucket Stolen	100	92	192	10	Bucket Stolen	98	89
DB - 76	16	216	87	163	37	154	104	98	93	91	14	74	96
DB - 77	39	192	123	197	109	184	99	109	651	87	59	226	173
DB - 78	13	191	26	155	71	221	77	169	181	75	45	118	112
DB - 79	133	141	11	138	70	216	90	214	40	134	48	109	112
DB - 80	279	186	250	426	204	323	182	368	178	295	440	320	288
DB - 81	42	279	100	199	143	320	124	207	526	222	73	257	208
DB - 82	12	184	43	210	172	269	172	192	223	75	156	162	156
DB - 83	46	344	48	113	89	262	82	151	345	154	55	176	156
DB - 84	2	148	73	120	63	218	No Access	351	185	No Access	No Access	8	130
DB - 85	15	417	78	86	57	246	No Access	226	157	No Access	No Access	13	144
DB - 86	886	704	883	1141	747	1146	478	627	193	566	948	569	741
DB - 87	2167	1921	1472	1783	1797	1629	1063	2437	212	1292	1659	1055	1541
DB - 88	969	262	71	241	379	308	207	153	2214	248	96	853	500
DB - 89	119	183	102	296	255	515	273	355	345	175	100	207	244
DB - 90	40	81	5	37	51	235	248	177	174	142	53	123	114

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GBN-JV Air Quality Results													
Gravimetric Dust Fallout (mg/m²/day)													
Location	Apr-21 to May-21	May-21 to Jun-21	Jun-21 to Jul-21	July-21 to Aug-21	Aug-21 to Sep-21	Sep-21 to Oct-21	Oct-21 to Nov-21	Nov-21 to Dec-21	Dec-21 to Jan-21	Jan-22 to Feb-22	Feb-22 to Mar-22	Mar-22 to Apr-22	Average
DB - 91	78	265	85	99	233	329	123	210	96	146	524	255	204
DB - 92	315	272	438	107	131	181	46	651	198	76	17	97	211
DB - 93	45	322	6	90	106	27	99	165	126	63	53	81	99
DB - 94	48	158	23	79	97	245	62	202	149	74	81	101	110
DB - 95	142	1057	370	681	531	504	338	333	284	402	162	282	424
DB - 96	Installed	114	54	192	158	301	150	286	141	210	184	178	179
DB - 97	47	166	155	313	246	430	194	655	366	186	88	213	255
DB - 98	34	7	15	101	74	272	107	No Access	No Access	416	21	218	127
DB - 99	1085	1336	1059	1341	832	942	448	477	649	740	494	628	836
DB - 100	138	257	49	101	64	216	73	76	73	100	15	63	102
3 Month Average	92	169	149	179	153	174	166	233	194	195	175	170	Total Average for all
Residential Limit	600	600	600	600	600	600	600	600	600	600	600	600	points for 12 months:
Industrial Limit	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	183
1 Month Median	13	238	48	120	94	307	169	222	190	173	163	176	Industrial Limit Exceedances:
Max	2167	1921	1472	1783	1797	1629	1103	2437	2214	1292	1659	1055	
Min	1	5	2	31	11	27	5	41	7	10	14	8	

Legend	
No Sample	
Residentially acceptable	
Residential Limit Exceedance	
Industrial Limit Exceedance	
Alert Level	

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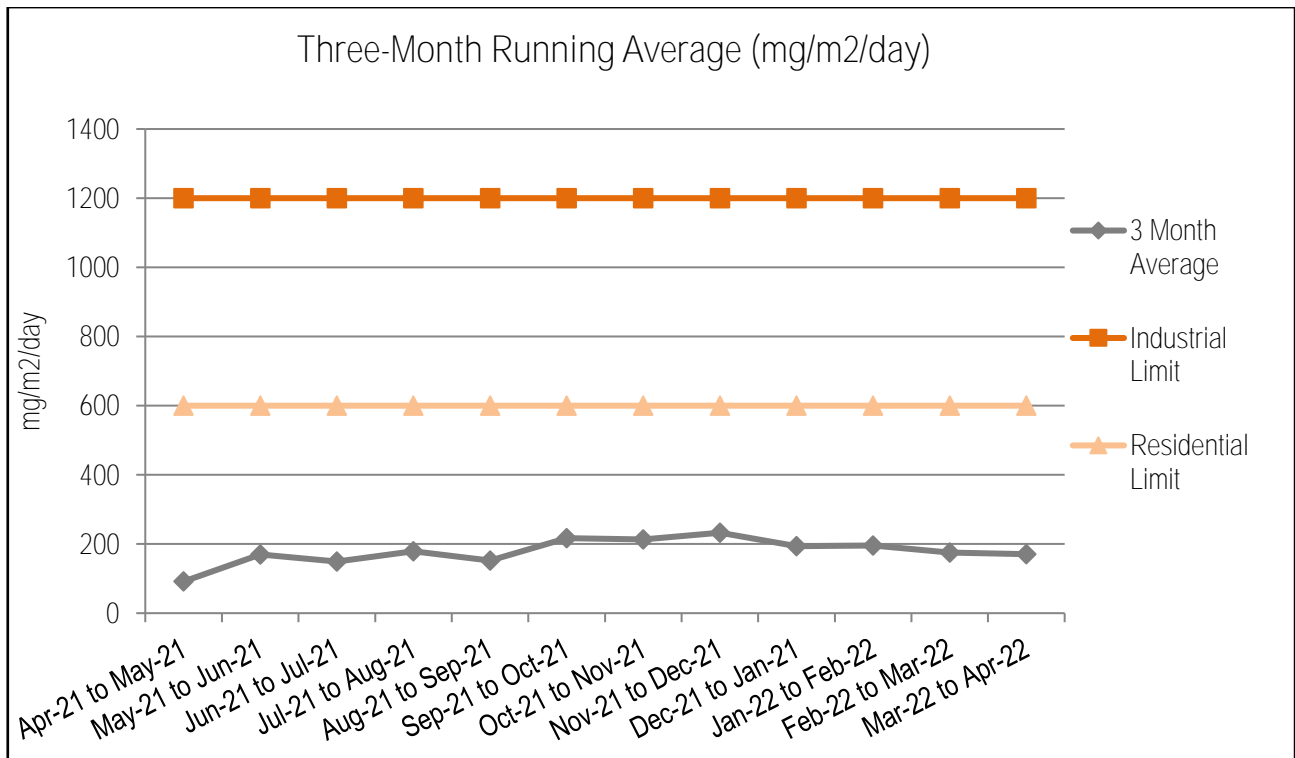


Figure 8: Dust Fallout Three-Month Running Average across all monitoring localities

## 7.5. WEATHER DATA

The possibility of emissions becoming a nuisance is determined by various factors. Specifically, PM<sub>10</sub> (dust) is mostly transported by air movement and as such wind and wind intensity can help determine the effective range of travel of pollutants. To determine possible areas that could be affected the wind rose data must be studied and interpreted. The following section provides an interpretation of the areas that could possibly be affected, by assessing the direction the wind is coming from and the areas the wind would deposit transported dust as reasonably expected. The following graphs provide an insight into the annual wind conditions versus the areas which would be affected during the current monitoring period.

From Table 10 & 11 and Figure 9 & 10, the dominant wind direction for the annual period was from the north and to a lesser extent from the north-northeast. Moreover, the average wind speed was recorded at 1.4 m/s which on average range between 1.0 to 2.2 m/s and thereby classified as a light air to light breeze (Table 9 below). A total of 1863.2 mm of rain was recorded throughout the annual period (Table 12).

Table 9: Beaufort Wind Force Scale

Beaufort Wind Force Scale			
Number	Wind speed (m/s)	Description	Land Conditions
0	<0.3 m/s	Calm	Calm. Smoke rises vertically
1	0.3–1.5 m/s	Light air	Wind motion visible in smoke.
2	1.6–3.3 m/s	Light breeze	Wind felt on exposed skin. Leaves rustle.
3	3.4–5.5 m/s	Gentle breeze	Leaves and smaller twigs in constant motion.
4	5.5–7.9 m/s	Moderate breeze	Dust and loose paper raised. Small branches begin to move.
5	8.0–10.7 m/s	Fresh breeze	Branches of a moderate size move. Small trees begin to sway.
6	10.8–13.8 m/s	Strong breeze	Large branches in motion. Whistling heard in overhead wires. Umbrella use becomes difficult. Empty plastic garbage cans tip over.
7	13.9–17.1 m/s	High wind, moderate gale, near gale	Whole trees in motion. Effort needed to walk against the wind. Swaying of skyscrapers may be felt, especially by people on upper floors.
8	17.2–20.7 m/s	Fresh gale	Twigs broken from trees. Cars veer on road.
9	20.8–24.4 m/s	Strong gale	Larger branches break off trees, and some small trees blow over. Construction/temporary signs and barricades blow over. Damage to circus tents and canopies.
10	24.5–28.4 m/s	Whole gale, storm	Trees are broken off or uprooted, saplings bent and deformed, poorly attached asphalt shingles and shingles in poor condition peel off roofs.
11	28.5–32.6 m/s	Violent storm	Widespread vegetation damage. More damage to most roofing surfaces, asphalt tiles that have curled up and/or fractured due to age may break away completely.
12	≥32.7 m/s	Hurricane force	Considerable and widespread damage to vegetation, a few windows broken, structural damage to mobile homes and poorly constructed sheds and barns. Debris may be hurled about.

Table 10: Wind Direction

Wind Direction: April 2021 to March 2022	
Direction	Direction Frequency
North	357
NNE	257
NE	167
ENE	160
East	186
ESE	62
SE	35
SSE	36
South	73
SSW	85
SW	127
WSW	205
West	192
WNW	107
NW	100
NNW	120

Table 12: Rainfall

Quarterly Rainfall Summary	
Month	Rainfall (mm)
Apr-21	25,8
May-21	0,6
Jun-21	26,6
Jul-21	18,4
Aug-21	28,8
Sep-21	41,0
Oct-21	73,2
Nov-21	207,8
Dec-21	736,0
Jan-22	305,4
Feb-22	110,4
Mar-22	289,2
Annual Precipitation	1863,2

*\*Rainfall was not recorded on the omitted days*

Table 11: Average Wind Speeds

Month	Average Monthly Wind Speed (m/s)
Apr-21	1,0
May-21	1,0
Jun-21	1,2
Jul-21	1,5
Aug-21	1,8
Sep-21	1,9
Oct-21	2,2
Nov-21	1,9
Dec-21	1,2
Jan-22	1,2
Feb-22	1,2
Mar-22	1,0



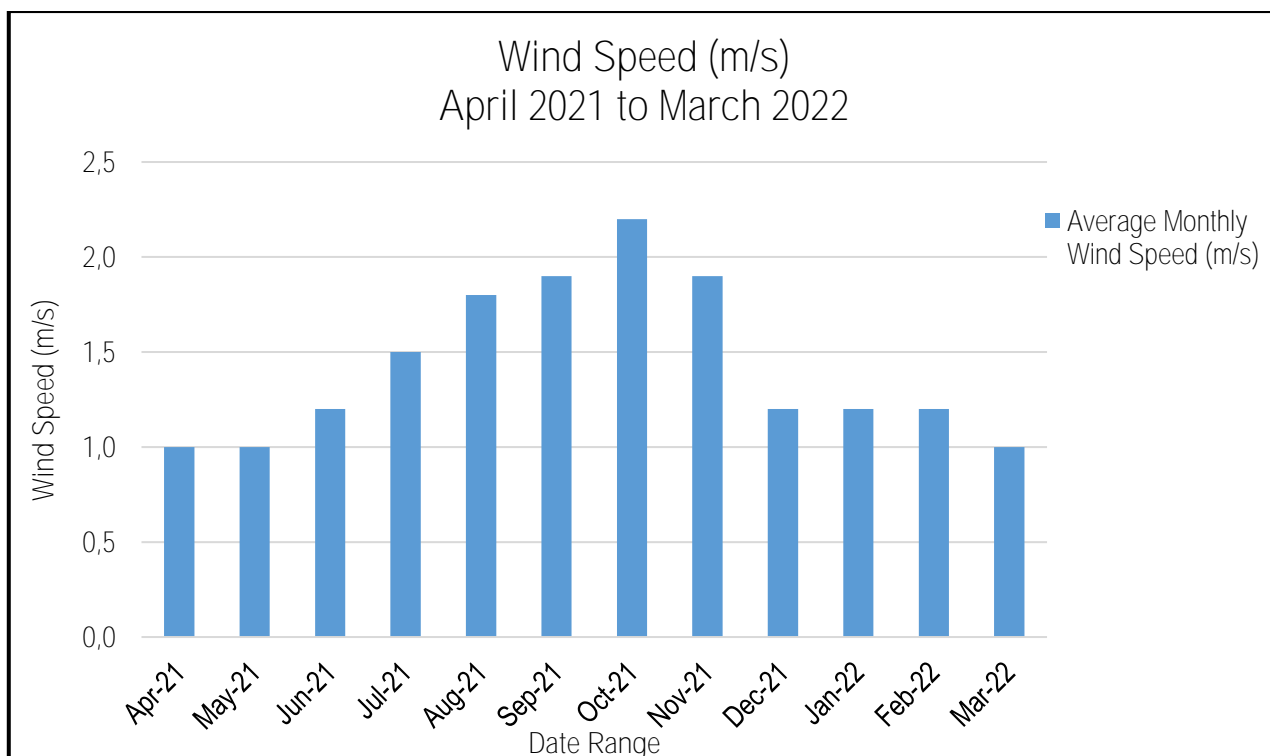


Figure 9: Wind Speed Average

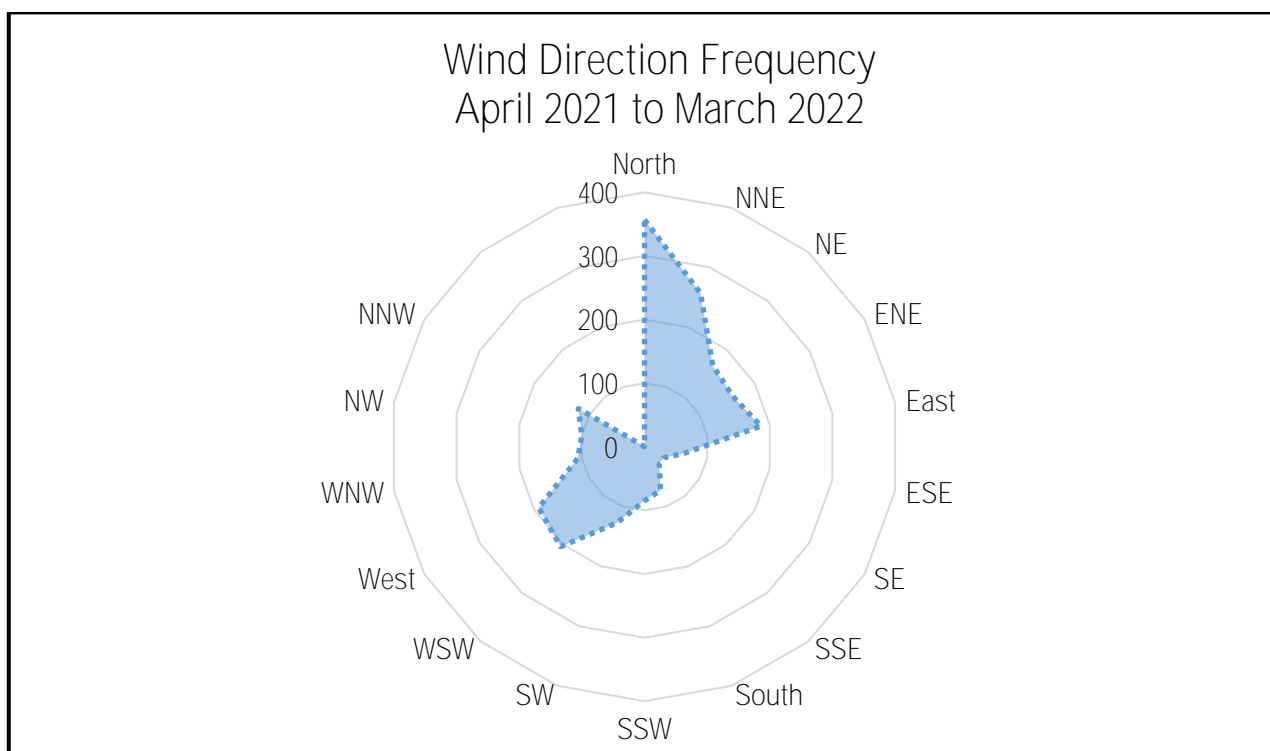


Figure 10: Windrose Diagram

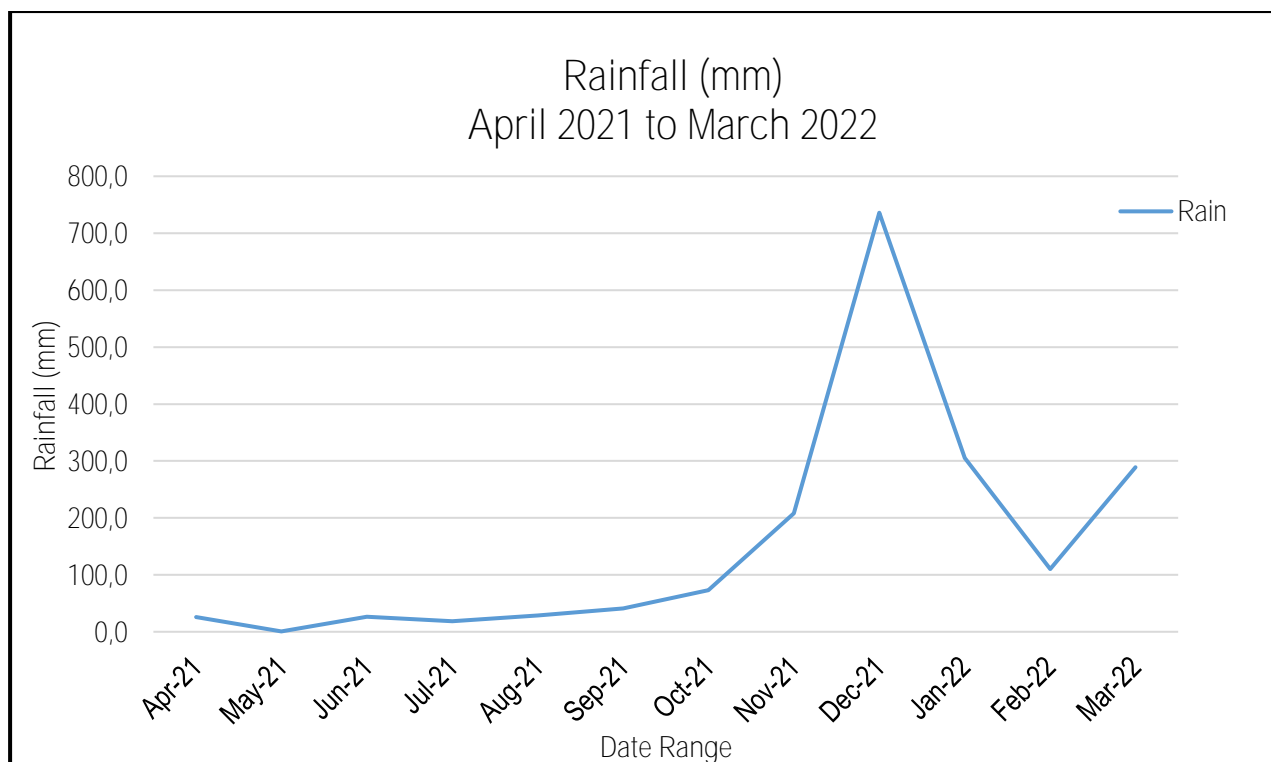


Figure 11: Rainfall for monitoring period

## 8. CONCLUSION AND ASPECTS TO CONSIDER

The scope of work performed at MCWAP-2 is as per the monitoring programme submitted. This report aims to identify air quality baseline profiles for trend analysis and highlight areas of particular concern. The below section refers to the results associated with the monitoring conducted between March 2021 and April 2022.

The air quality measured in the proposed area is considered in generally fair condition as per the results obtained, while it should be noted that currently operations are not present and the levels representative of the non-disturbed ambient air quality conditions. Thus the associated elevated dust fall-out measurements present at DB86, DB87 and DB99 is correlated to the active dirt roads which will cause of the elevated levels and exceedances recorded at the localities.

It is assumed that the construction phase of the planned pipeline will contribute to the total suspended load in the atmosphere, although off-site impacts are not expected, and the impact is anticipated to be largely localised and centralised within the construction area. From the current sampling data obtained, exceedances are expected during the construction phase. In order to ensure and prevent this possible outcome, mitigation measures are provided in this report to enable the proposed development to minimise the impact as stated in the CEMPr.

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## 9. PROPOSED MITIGATION AND POLLUTION PREVENTION MEASURES DURING FUTURE CONSTRUCTION

Aspects	Management action or objective	Responsible Person(s)	Timeframe
Removal of Vegetation	<ul style="list-style-type: none"> <li>Spray areas to be cleared with water.</li> <li>Ensure minimum travel distance between working areas and stockpiles.</li> <li>Ensure that topsoil for stockpiles is sprayed with water before tipping to prevent dust generation.</li> <li>Ensure graded areas are sprayed with water.</li> <li>Minimise the amount of graded areas.</li> <li>Ensure that shortest routes are used for material transport.</li> <li>Load and offload material, as far as possible, downwind of stockpiles.</li> <li>Actively monitor dust fallout generated on the borders of the site.</li> <li>Implement monthly site inspection to check for possible areas of dust generation not addressed or not effectively managed.</li> </ul>	Environmental Site Officer  Contractors & Sub-Contractor Safety and Environmental Officers	Duration of the construction phase
Land clearing			
Excavation			
Material Transport			
Material Handling			
Construction			

Aspect: Stakeholder Communication	
1	Implement a programme of stakeholder communication that includes community engagement before and during work undertaken on site.
2	Provide complaints register on site where complaints can be made. This register should enable effective communication of complaints where these are reasonably addressed.
3	Clearly display the contact details of the environmental site office and manager at the construction camps.
Aspect: Dust Management	
4	In instances where exceedances are recorded, the implementation and maintenance of a Dust and Emission Management Plan which provides clear details on preventing, maintaining and improving the air quality in terms of site-specific activities is recommended.
Aspect: Site Management	
5	All complaints should be logged in the complaints register and should be available on the site at all times. All complaints regarding air quality should be adequately investigated and actions taken to reduce the impact in a timely manner should it be required.
6	Note must be taken of incidents that cause air emissions and this must be recorded to ensure that these are resolved and prevented from reoccurring.
Aspect: Monitoring	
7	Weekly site inspections should be undertaken in the vicinity of sensitive receptors. Records should be kept of these routine inspections.
8	Should activities be undertaken during dry and windy conditions, special focus must be taken on the impact and results of the conditions to ensure that minimal impact is occurring.
Aspect: Preparing and maintaining the site	
9	Plan the site layout in such a manner as to ensure that emission generating activities occur as far as possible from sensitive receptors.
10	Should the conditions require it, erect screens and barriers around the sensitive receptors.
11	Ensure that all areas, fencing, barriers and scaffolding is kept clear of debris and dust.
12	Remove any accumulating matter that could serve as emission generator from the site as soon as possible.
Aspect: Operating vehicle/machinery and sustainable travel	
13	Ensure that all vehicles are maintained in good working condition and that they are services on regular intervals.
14	Ensure that all vehicles are switched off when stationary – no vehicles should be idling for extended period.
15	Avoid the use of diesel- or petrol-powered generators and use mains electricity or battery powered equipment as reasonably possible.
16	Impose and regulate a speed limit.
Aspect: Operations	
17	Only use cutting, grinding or sawing equipment fitted or in conjunction with suitable dust suppression techniques such as water sprays or local extraction, e.g. suitable local exhaust ventilation systems.
18	Ensure an adequate water supply on the site for effective dust/particulate matter suppression/mitigation, using non-potable water where possible.
19	Ensure equipment is readily available on site to clean any dry spillages, and clean up spillages as soon as reasonably practicable after the event using wet cleaning methods.
Waste management	

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20	Only use registered waste carriers to take waste off-site.
Measures specific to earthworks	
21	Re-vegetate earthworks and exposed areas/soil stockpiles to stabilise surfaces as soon as practicable. Use Hessian, mulches or tackifiers where it is not possible to re-vegetate or cover with topsoil, as soon as practicable. Only remove the cover in a small area during work and not all at once.
Aspect: Measures specific to construction	
22	Ensure sand and other aggregates are stored in bunded areas and are not allowed to dry out, unless this is required for a particular process, in which case ensure that appropriate additional control measures are in place.
23	Ensure cement and other fine powder materials are delivered in enclosed tankers and stored in appropriate storage with suitable emission control systems to prevent escape of material and overfilling during delivery.
24	For smaller supplies of fine power materials ensure bags are sealed after use and stored appropriately to prevent dust.
Aspect: Measures specific to track-out	
25	Use water-assisted dust sweeper(s) on the access roads (where practical) to remove, as soon as practicable any material tracked out of the site.
26	Avoid dry sweeping of large areas.
27	Ensure vehicles entering and leaving sites are covered to prevent escape of materials during transport.
28	Record all inspections of haul routes and any subsequent action in a site log book.
29	Install hard surfaced routes (compaction), which are regularly damped down (daily) with fixed or mobile sprinkler systems, or mobile water bowsers and regularly cleaned.
30	Inspect surfaced routes for integrity and instigate necessary repairs to the surface as soon as practicable.



## 10. REFERENCES

ASTM Standard (1739-98). 2004 (Reapproved 2017). Standard Test Method for Collection and Measurement of Dustfall (Settleable Particulate Matter). United States.

GNR 827. 2013. National Environmental Management: Air Quality Act, Act No. 39 of 2004. Government Gazette 36974.

South African National Standards (SANS) 1929. 2011. Ambient Air Quality- Limits for Common Pollutants. Ed. 2. ISBN 978-0-626-26919-7. South Africa.

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# APPENDIX A – ENVASS CHAIN OF CUSTODY (COC) FORM

GBN-JV 2A-C-8.9 Air Monitoring				
No	Sample ID	Installation Date	Installation Time	Comment
1	DB01	5/5/21	14:46	Pic = 128 (10/21)
2	DB02	5/5/21	14:43	Pic = 127
3	DB03	5/5/21	14:34	Pic = 126
4	DB04	5/5/21	14:05	Pic = 122
5	DB05	5/5/21	14:08	Pic = 123
6	DB06	5/5/21	14:18	Pic = 124
7	DB07	5/5/21	14:21	Pic = 125
8	DB08	6/5/21	11:22	Pic = 131
9	DB09	6/5/21	12:38	Pic = 133
10	DB10	6/5/21	12:41	Pic = 134
11	DB11	6/5/21	11:54	Pic = 132 (10/21)
12	DB12			
13	DB13			
14	DB14			
15	DB15	5/5/21	13:16	Pic = 119
16	DB16	5/5/21	13:20	Pic = 120
17	DB17	5/5/21	13:27	Pic = 121
18	DB18	5/5/21	12:31	Pic = 118
19	DB19	5/5/21	12:23	Pic = 117
20	DB20	5/5/21	12:20	Pic = 116
21	DB21	5/5/21	12:17	Pic = 115
22	DB22	5/5/21	12:14	Pic = 114
23	DB23	5/5/21	12:10	Pic = 113
24	DB24	5/5/21	12:06	Pic = 112
25	DB25	5/5/21	12:04	Pic = 111
26	DB26	5/5/21	12:00	Pic = 110
27	DB27	5/5/21	11:58	Pic = 109
28	DB28	5/5/21	11:53	Pic = 108
29	DB29	5/5/21	11:50	Pic = 107
30	DB30	5/5/21	11:46	Pic = 106
31	DB31	5/5/21	11:42	Pic = 105
32	DB32	5/5/21	11:38	Pic = 104
33	DB33	5/5/21	11:35	Pic = 103
34	DB34	5/5/21	11:30	Pic = 102
35	DB35	5/5/21	11:28	Pic = 101
36	DB36	5/5/21	11:24	Pic = 100
37	DB37	5/5/21	11:21	Pic = 99
38	DB38	5/5/21	11:19	Pic = 98
39	DB39	5/5/2021	11:15	Pic = 97

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GBN-JV 2A-C-3.9 Air Monitoring				
No	Sample ID	Installation Date	Installation Time	Comment
40	DB40	5/5/21	11:13	Pic = 96
41	DB41	5/5/21	11:10	Pic = 95
42	DB42	5/5/21	11:08	Pic = 94
43	DB43	5/5/21	11:04	Pic = 93
44	DB44	5/5/21	10:59	Pic = 92
45	DB45	5/5/21	10:24	Pic = 89
46	DB46	5/5/21	9:37	Pic = 89
47	DB47	5/5/21	9:34	Pic = 88
48	DB48	5/5/21	9:30	Pic = 87
49	DB49	5/5/21	9:26	Pic = 86
50	DB50	5/5/21	9:22	Pic = 85
51	DB51	5/5/21	9:18	Pic = 84
52	DB52	5/5/21	9:15	Pic = 83
53	DB53	5/5/21	9:12	Pic = 82
54	DB54	5/5/21	9:09	Pic = 81
55	DB55	5/5/21	9:06	Pic = 80
56	DB56	5/5/2021	8:55	Pic = 78
57	DB57	5/5/2021	8:59	Pic = 79
58	DB58	5/5/2021	6:22	Pic = 58
59	DB59	5/5/21	8:42	Pic = 77
60	DB60	5/5/21	8:37	Pic = 76
61	DB61	5/5/21	8:31	Pic = 75
62	DB62	5/5/21	8:27	Pic = 74
63	DB63	5/5/21	8:25	Pic = 73
64	DB64	5/5/21	8:20	Pic = 72
65	DB65	5/5/21	8:17	Pic = 71
66	DB66	5/5/21	8:13	Pic = 70
67	DB67	5/5/21	8:09	Pic = 69
68	DB68	5/5/21	8:05	Pic = 68
69	DB69	5/5/21	8:02	Pic = 67
70	DB70	5/5/21	7:58	Pic = 66
71	DB71	5/5/21	7:55	Pic = 65
72	DB72	5/5/21	7:50	Pic = 64
73	DB73	5/5/21	7:44	Pic = 63
74	DB74	5/5/21	7:41	Pic = 62
75	DB75	5/5/21	7:38	Pic = 61
76	DB76	5/5/21	7:34	Pic = 60
77	DB77	5/5/21	7:29	Pic = 59
78	DB78	5/5/21	17:29	Pic = 129



GBN-JV 2A-C-8.9 Air Monitoring				
No	Sample ID	Installation Date	Installation Time	Comment
79	DB79	4/5/21	15:48	Pic = 57
80	DB80	4/5/21	15:46	Pic = 51
81	DB81	4/5/21	15:41	Pic = 52
82	DB82	4/5/21	15:20	Pic = 50
83	DB83	4/5/21	15:15	Pic = 55
84	DB84	4/5/21	13:09	Pic = 45
85	DB85	4/5/21	12:31	Pic = 44 (Moved)
86	DB86	4/5/21	11:54	Pic = 54
87	DB87	4/5/21	11:44	Pic = 47
88	DB88	4/5/21	9:44	Pic = 42
89	DB89 - PPM	4/5/21	9:20	Pic = 43
90	DB90	4/5/21	11:30	Pic = 40
91	DB91	4/5/21	14:00	Pic = 48 (M)
92	DB92	4/5/21	11:11	Pic = 39
93	DB93	4/5/21	10:52	Pic = 38
94	DB94	4/5/21	11:00	Pic = 37
95	DB95	4/5/21	7:33	Pic = 53
96	DB96	06-05-2021	16:25 10:59	NO ACCESS
97	DB97	4/5/21	15:38	Pic = 56
98	DB98	4/5/21	15:00	Pic = 49 (Moved)
99	DB99	4/5/21	11:50	Pic = 46 (Moved)
100	DB100	4/5/21	11:38	Pic = 41

GBN-JV 2A-C-8.9 Air Monitoring				
No	Sample ID	Sample Date	Sample Time	Comment
1	DB01	02-06-2021	14:39	
2	DB02	"	14:34	
3	DB03	"	14:23	
4	DB04	"	14:20	
5	DB05	"	14:17	
6	DB06	"	14:13	
7	DB07	"	14:09	
8	DB08	"	14:04	
9	DB09	03-06-2021	10:10	
10	DB10	03-06-2021	10:14	
11	DB11	03-06-2021	12:18	
12	DB12	"		
13	DB13	"		
14	DB14	"		
15	DB15	02-06-2021	13:18	
16	DB16	"	13:14	
17	DB17	"	13:06	
18	DB18	"	12:19	
19	DB19	"	12:16	
20	DB20	"	12:13	
21	DB21	"	12:09	
22	DB22	"	12:06	
23	DB23	"	12:03	
24	DB24	"	11:59	
25	DB25	"	11:57	
26	DB26	"	11:54	
27	DB27	"	11:51	
28	DB28	"	11:46	
29	DB29	"	08:43	
30	DB30	"	08:40	
31	DB31	"	08:37	
32	DB32	"	08:33	
33	DB33	"	08:30	
34	DB34	"	08:27	
35	DB35	"	08:24	
36	DB36	"	08:20	
37	DB37	"	08:18	
38	DB38	"	08:15	
39	DB39	"	08:12	
40	DB40	"	08:09	
41	DB41	"	08:07	
42	DB42	"	08:05	
43	DB43	"	08:00	
44	DB44	"	07:53	

45	DB45	02-06-2021	07:49	
46	DB46	"	07:43	
47	DB47	"	07:40	
48	DB48	"	07:36	
49	DB49	"	07:32	
50	DB50	"	07:20	
51	DB51	"	07:11	
52	DB52	"	07:07	
53	DB53	"	07:04	
54	DB54	"	07:00	
55	DB55	"	06:54	
56	DB56	"	06:51	
57	DB57	"	06:47	
58	DB58	01-06-2021	14:23	
59	DB59	"	14:27	
60	DB60	"	14:30	
61	DB61	"	14:33	
62	DB62	"	14:37	
63	DB63	"	14:41	
64	DB64	"	14:44	
65	DB65	"	14:48	
66	DB66	"	14:51	
67	DB67	"	14:54	
68	DB68	"	14:57	
69	DB69	"	15:00	
70	DB70	"	15:03	
71	DB71	"	15:06	
72	DB72	"	15:11	
73	DB73	"	15:15	
74	DB74	"	15:18	
75	DB75	"	15:21	NO (stolen)!
76	DB76	"	15:24	
77	DB77	"	12:44	
78	DB78	"	12:41	
79	DB79	"	12:39	
80	DB80	"	12:37	
81	DB81	"	12:33	
82	DB82	"	12:23	
83	DB83	"	12:18	
84	DB84	"	11:07	
85	DB85	"	10:58	
86	DB86	"	07:54	
87	DB87	"	07:44	
88	DB88	"	07:48	
89	DB89	"	08:32	
90	DB90	"	09:13	

91	DB91	03-06-2021	08:22	
92	DB92	01-06-2021	09:57	
93	DB93	"	09:35	
94	DB94	"	09:40	
95	DB95	"	06:23	
96	DB96	03-06-2021	11:42	
97	DB97	01-06-2021	12:29	
98	DB98	"	12:09	
99	DB99	"	07:49	
100	DB100	"	09:18	

GBN-JV 2A-C-8.9 Air Monitoring					
No	Sample ID	Sample Date	Sample Time	Comment	
1	DB01	20-7-21	16:10	TSR=156.4	TSR=156.4
2	DB02	20-7-21	16:09	TSR=156.5	TSR=156.5
3	DB03	20-7-21	16:08	TSR=156.4	TSR=156.4
4	DB04	20-7-21	16:07	TSR=156.4	TSR=156.4
5	DB05	20-7-21	16:06	TSR=156.4	TSR=156.4
6	DB06	20-7-21	16:05	TSR=156.4	TSR=156.4
7	DB07	20-7-21	16:04	TSR=156.4	TSR=156.4
8	DB08	20-7-21	16:03	TSR=156.4	TSR=156.4
9	DB09	20-7-21	16:02	TSR=156.4	TSR=156.4
10	DB10	20-7-21	16:01	TSR=156.4	TSR=156.4
11	DB11	21-07-21	18:09	TSR=98.5	TSR=98.5
12	DB12	No record			
13	DB13 (New 1)	19/07/2021	06:44		Installed - 19/07/2021
14	DB14 (New 2)	20-7-21	14:37	TSR=28.7	TSR=28.7
15	DB15	20-7-21	15:21	TSR=28.7	TSR=28.7
16	DB16	20-7-21	15:20	TSR=28.7	TSR=28.7
17	DB17	20-7-21	15:19	TSR=28.7	TSR=28.7
18	DB18	21-7-21	12:01	TSR=187.5	TSR=187.5
19	DB19	21-7-21	11:47	TSR=187.5	TSR=187.5
20	DB20	21-7-21	11:33	TSR=187.5	TSR=187.5
21	DB21	21-7-21	11:19	TSR=187.5	TSR=187.5
22	DB22	21-7-21	11:05	TSR=187.5	TSR=187.5
23	DB23	21-7-21	10:51	TSR=206.9	TSR=206.9
24	DB24	21-7-21	10:36	TSR=410.4	TSR=410.4
25	DB25	21-7-21	10:22	TSR=219	TSR=219
26	DB26	21-7-21	10:08	TSR=24.6	TSR=24.6
27	DB27	21-7-21	09:54	TSR=28.9	TSR=28.9
28	DB28	21-7-21	09:40	TSR=69.1	TSR=69.1
29	DB29	21-7-21	09:26	TSR=78.2	TSR=78.2
30	DB30	21-7-21	09:12	TSR=78.2	TSR=78.2
31	DB31	21-7-21	08:58	TSR=52.5	TSR=52.5
32	DB32	21-7-21	08:44	TSR=67.3	TSR=67.3
33	DB33	21-7-21	08:30	TSR=225.8	TSR=225.8
34	DB34	21-7-21	08:16	TSR=90.1	TSR=90.1
35	DB35	21-7-21	08:02	TSR=110.7	TSR=110.7
36	DB36	21-7-21	07:48	TSR=53.5	TSR=53.5
37	DB37	21-7-21	07:34	TSR=107.6	TSR=107.6
38	DB38	21-7-21	07:20	TSR=66.4	TSR=66.4
39	DB39	21-7-21	07:06	TSR=130.3	TSR=130.3
40	DB40	21-7-21	06:52	TSR=107.6	TSR=107.6
41	DB41	21-7-21	06:38	TSR=53.1	TSR=53.1
42	DB42	21-7-21	06:24	TSR=83.1	TSR=83.1
43	DB43	21-7-21	06:10	TSR=44.5	TSR=44.5
44	DB44	21-7-21	05:56	TSR=71.2	TSR=71.2



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91	DB91	22/07/2021	15:41	Y	
92	DB92	19/07/2021	13:26	Y	TSP=167.2 P1=2.6 P2=37.2 P3=137.0 P4=21.5 P5=187.7 P6=212.4 P7=129.3 P8=20.8 P9=172.5 P10=237.1
93	DB93	19/07/2021	13:16	Y	TSP=536.3 P1=2.6 P2=37.2 P3=137.0 P4=21.5 P5=187.7 P6=212.4 P7=129.3 P8=20.8 P9=172.5 P10=237.1
94	DB94	19/07/2021	13:12	Y	TSP=321.5 P1=2.6 P2=37.2 P3=137.0 P4=21.5 P5=187.7 P6=212.4 P7=129.3 P8=20.8 P9=172.5 P10=237.1
95	DB95	19/07/2021	06:40	O	
96	DB96	20-7-21	14:25	Y	TSP=100.3 P1=2.6 P2=37.2 P3=137.0 P4=21.5 P5=187.7 P6=212.4 P7=129.3 P8=20.8 P9=172.5 P10=237.1
97	DB97	19/07/2021	08:40	Y	TSP=100.3 P1=2.6 P2=37.2 P3=137.0 P4=21.5 P5=187.7 P6=212.4 P7=129.3 P8=20.8 P9=172.5 P10=237.1
98	DB98	19/07/2021	08:19	Y	TSP=100.3 P1=2.6 P2=37.2 P3=137.0 P4=21.5 P5=187.7 P6=212.4 P7=129.3 P8=20.8 P9=172.5 P10=237.1
99	DB99	19/07/2021	11:46	Y	TSP=326.9 P1=2.6 P2=37.2 P3=137.0 P4=21.5 P5=187.7 P6=212.4 P7=129.3 P8=20.8 P9=172.5 P10=237.1
100	DB100	19-07-2021	10:53	Y	TSP=67.8 P1=2.6 P2=37.2 P3=137.0 P4=21.5 P5=187.7 P6=212.4 P7=129.3 P8=20.8 P9=172.5 P10=237.1

GBN-JV 2A-C-8.9 Air Monitoring				
No	Sample ID	Sample Date	Sample Time	Comment
1	DB01	19 Aug '21	11:20	$P_1=3.2$ $P_{2.5}=17.2$ $P_4=36.7$ $P_{10}=106.7$ TSP=131.3
2	DB02	19 Aug '21	11:16	$P_1=4.2$ $P_{2.5}=11.3$ $P_4=39.7$ $P_{10}=216.4$ TSP=422.8
3	DB03	19 Aug '21	10:18	$P_1=3.1$ $P_{2.5}=16.6$ $P_4=44.4$ $P_{10}=126.8$ TSP=191.3
4	DB04	19 Aug '21	11:46	$P_1=3.2$ $P_{2.5}=21.6$ $P_4=54.1$ $P_{10}=206.1$ TSP=273.9
5	DB05	19 Aug '21	11:43	$P_1=1.9$ $P_{2.5}=10.8$ $P_4=18.1$ $P_{10}=51.9$ TSP=74.7
6	DB06	19 Aug '21	11:51	$P_1=3.0$ $P_{2.5}=24.8$ $P_4=34.1$ $P_{10}=31.0$ TSP=60.8
7	DB07	19 Aug '21	11:54	$P_1=1.6$ $P_{2.5}=4.9$ $P_4=10.2$ $P_{10}=35.1$ TSP=46.8
8	DB08	19 Aug '21	11:58	$P_1=1.8$ $P_{2.5}=5.3$ $P_4=11.8$ $P_{10}=36.5$ TSP=49.4
9	DB09	19 Aug '21	15:09	$P_1=2.0$ $P_{2.5}=14.2$ $P_4=19.6$ $P_{10}=57.7$ TSP=107
10	DB10	19 Aug '21	15:13	$P_1=1.9$ $P_{2.5}=7.3$ $P_4=13.4$ $P_{10}=38.8$ TSP=48.7
11	DB11	19 Aug '21	13:56	$P_1=2.1$ $P_{2.5}=13$ $P_4=36.3$ $P_{10}=121.9$ TSP=165.6
12	DB12	19 Aug '21	10:30	$P_1=3.5$ $P_{2.5}=10.8$ $P_4=23.7$ $P_{10}=298.8$ TSP=374.4
13	DB13	17 Aug '21	06:52	$P_1=2.5$ $P_{2.5}=30.8$ $P_4=46.1$ $P_{10}=98.1$ TSP=133.3
14	DB14	19 Aug '21	<del>10:04</del> 11:04	$P_1=3.4$ $P_{2.5}=20.5$ $P_4=54$ $P_{10}=190.5$ TSP=237.2
15	DB15	18 Aug '21	18:53	$P_1=1.6$ $P_{2.5}=5.5$ $P_4=8.8$ $P_{10}=17.8$ TSP=22.1
16	DB16	18 Aug '21	13:49	$P_1=1.6$ $P_{2.5}=6.8$ $P_4=12.5$ $P_{10}=41.0$ TSP=60.8
17	DB17	18 Aug '21	15:42	$P_1=1.4$ $P_{2.5}=3.2$ $P_4=4.5$ $P_{10}=13.7$ TSP=60.4
18	DB18	18 Aug '21	14:31	$P_1=1.5$ $P_{2.5}=2.5$ $P_4=12.0$ $P_{10}=52.6$ TSP=88.3
19	DB19	18 Aug '21	10:26	$P_1=1.3$ $P_{2.5}=3.4$ $P_4=7.7$ $P_{10}=32.9$ TSP=50.2
20	DB20	18 Aug '21	14:23	$P_1=1.5$ $P_{2.5}=2.4$ $P_4=11.3$ $P_{10}=30.9$ TSP=68.8
21	DB21	18 Aug '21	14:20	$P_1=1.5$ $P_{2.5}=4.7$ $P_4=8.6$ $P_{10}=26.7$ TSP=53.3
22	DB22	18 Aug '21	14:16	$P_1=1.5$ $P_{2.5}=3.6$ $P_4=12.9$ $P_{10}=27$ TSP=53.8
23	DB23	18 Aug '21	14:11	$P_1=1.4$ $P_{2.5}=4.3$ $P_4=7.4$ $P_{10}=20.1$ TSP=28.1
24	DB24	18 Aug '21	14:04	$P_1=2.8$ $P_{2.5}=28.6$ $P_4=39$ $P_{10}=162$ TSP=202.1
25	DB25	18 Aug '21	14:01	$P_1=1.6$ $P_{2.5}=7.3$ $P_4=13.7$ $P_{10}=35.5$ TSP=63.4
26	DB26	18 Aug '21	13:58	$P_1=1.6$ $P_{2.5}=19.5$ $P_4=24.3$ $P_{10}=48.8$ TSP=69.8
27	DB27	17 Aug '21	13:56	$P_1=1.5$ $P_{2.5}=6.3$ $P_4=10.3$ $P_{10}=20.2$ TSP=23.3
28	DB28	18 Aug '21	13:47	$P_1=5.0$ $P_{2.5}=29.9$ $P_4=38.7$ $P_{10}=66.1$ TSP=75.9
29	DB29	18 Aug '21	13:44	$P_1=1.4$ $P_{2.5}=6.7$ $P_4=9.7$ $P_{10}=16.3$ TSP=17.6
30	DB30	18 Aug '21	13:40	$P_1=1.5$ $P_{2.5}=4.4$ $P_4=7.8$ $P_{10}=16$ TSP=19.1
31	DB31	18 Aug '21	13:36	$P_1=1.4$ $P_{2.5}=5.1$ $P_4=9.3$ $P_{10}=21.6$ TSP=30.3
32	DB32	18 Aug '21	13:31	$P_1=1.4$ $P_{2.5}=4.0$ $P_4=7.7$ $P_{10}=16.5$ TSP=21.4
33	DB33	18 Aug '21	13:29	$P_1=1.5$ $P_{2.5}=5.0$ $P_4=9.5$ $P_{10}=16.1$ TSP=28.2
34	DB34	18 Aug '21	13:24	$P_1=1.4$ $P_{2.5}=2.8$ $P_4=7.0$ $P_{10}=32.2$ TSP=51.3
35	DB35	18 Aug '21	13:21	$P_1=1.5$ $P_{2.5}=4.6$ $P_4=9.7$ $P_{10}=30.0$ TSP=42.4
36	DB36	18 Aug '21	13:17	$P_1=1.4$ $P_{2.5}=3.3$ $P_4=7.8$ $P_{10}=30.5$ TSP=32.0
37	DB37	18 Aug '21	13:16	$P_1=1.5$ $P_{2.5}=6.5$ $P_4=13.7$ $P_{10}=56.3$ TSP=85.2
38	DB38	18 Aug '21	13:10	$P_1=1.4$ $P_{2.5}=1.4$ $P_4=1.4$ $P_{10}=18.2$ TSP=38.1
39	DB39	18 Aug '21	13:07	$P_1=1.7$ $P_{2.5}=8.1$ $P_4=15.9$ $P_{10}=56.8$ TSP=80.8
40	DB40	18 Aug '21	13:04	$P_1=1.7$ $P_{2.5}=9.2$ $P_4=23.1$ $P_{10}=69.6$ TSP=95.6
41	DB41	18 Aug '21	13:01	$P_1=1.7$ $P_{2.5}=9.5$ $P_4=16.5$ $P_{10}=46.1$ TSP=69.0
42	DB42	18 Aug '21	12:57	$P_1=1.5$ $P_{2.5}=6.0$ $P_4=9.7$ $P_{10}=38.4$ TSP=60.6
43	DB43	18 Aug '21	12:53	$P_1=1.6$ $P_{2.5}=6.9$ $P_4=14.0$ $P_{10}=43.2$ TSP=61.1

44	DB44	18 Aug '21	12:47	P1=2.2 P2.5=9.9 P4=34.9 P10=177.9 TSP=343.7
45	DB45	18 Aug '21	12:43	P1=2.3 P2.5=21.9 P4=30.2 P10=18.8 TSP=100.6
46	DB46	18 Aug '21	12:15	P1=1.7 P2.5=1.7 P4=23.0 P10=151.3 TSP=197.1
47	DB47	18 Aug '21	12:11	P1=1.8 P2.5=1.8 P4=35 P10=187.6 TSP=200.2
48	DB48	18 Aug '21	12:08	P1=1.8 P2.5=5.9 P4=18.0 P10=61 TSP=77.0
49	DB49	18 Aug '21	12:04	P1=1.8 P2.5=6.9 P4=15.6 P10=48.4 TSP=68.2
50	DB50	18 Aug '21	11:59	P1=2 P2.5=2.2 P4=24.4 P10=76.3 TSP=96.6
51	DB51	18 Aug '21	11:55	P1=1.7 P2.5=4.4 P4=13.3 P10=46 TSP=66.9
52	DB52	18 Aug '21	11:51	P1=1.6 P2.5=4.1 P4=17.7 P10=53.3 TSP=61.4
53	DB53	18 Aug '21	11:47	P1=2.4 P2.5=19.9 P4=28.4 P10=58.7 TSP=89.8
54	DB54	18 Aug '21	11:44	P1=1.6 P2.5=1.6 P4=9.1 P10=145.4 TSP=177.4
55	DB55	18 Aug '21	11:39	P1=2.7 P2.5=26.3 P4=51.4 P10=162.3 TSP=206.6
56	DB56	18 Aug '21	11:36	P1=1.6 P2.5=6.7 P4=4.8 P10=30.6 TSP=36.9
57	DB57	18 Aug '21	11:31	P1=1.4 P2.5=4.3 P4=9.3 P10=21.1 TSP=29.7
58	DB58	18 Aug '21	06:26	P1=4.6 P2.5=43.7 P4=114.5 P10=393.4 TSP=467.6
59	DB59	18 Aug '21	06:33	P1=2.3 P2.5=11.4 P4=19.8 P10=46.0 TSP=57.7
60	DB60	18 Aug '21	06:40	P1=2.3 P2.5=10.0 P4=17.4 P10=36.1 TSP=42.2
61	DB61	18 Aug '21	06:47	P1=2.2 P2.5=7.8 P4=13.3 P10=38.9 TSP=34.0
62	DB62	18 Aug '21	06:53	P1=2.2 P2.5=7.2 P4=13.6 P10=54.4 TSP=78.3
63	DB63	18 Aug '21	06:57	P1=2.5 P2.5=21.5 P4=39.9 P10=787.3 TSP=1291.6
64	DB64	18 Aug '21	07:07	P1=2.6 P2.5=13.6 P4=37.7 P10=152.4 TSP=225.0
65	DB65	18 Aug '21	07:12	P1=2.7 P2.5=18.6 P4=46.6 P10=110.2 TSP=126.8
66	DB66	18 Aug '21	07:19	P1=4.0 P2.5=41.3 P4=84.0 P10=111.3 TSP=217.4
67	DB67	18 Aug '21	07:37	P1=4.8 P2.5=5.1 P4=13.6 P10=58.7 TSP=102.5
68	DB68	18 Aug '21	08:06	P1=1.7 P2.5=3.2 P4=21.8 P10=43.7 TSP=32.2
69	DB69	18 Aug '21	08:35	P1=1.7 P2.5=9.1 P4=14.9 P10=33.8 TSP=46.8
70	DB70	18 Aug '21	08:40	P1=1.9 P2.5=2.3 P4=23.1 P10=54.4 TSP=71.3
71	DB71	18 Aug '21	08:45	P1=2.4 P2.5=4.0 P4=63.1 P10=188.7 TSP=173.2
72	DB72	18 Aug '21	08:49	P1=3.4 P2.5=47.4 P4=64.6 P10=160.4 TSP=220.8
73	DB73	18 Aug '21	08:56	P1=2.1 P2.5=7.5 P4=43.3 P10=280.2 TSP=457.4
74	DB74	18 Aug '21	09:01	P1=4.0 P2.5=186.8 P4=110.1 P10=227.8 TSP=247.5
75	DB75	18 Aug '21	09:05	P1=1.5 P2.5=4.0 P4=11.7 P10=32.8 TSP=43.9
76	DB76	18 Aug '21	09:09	P1=1.5 P2.5=2.2 P4=21.3 P10=76.9 TSP=103.9
77	DB77	17 Aug	16:11	P1=2.3 P2.5=6.4 P4=10.7 P10=26.2 TSP=36.7
78	DB78	17 Aug	16:07	P1=2.4 P2.5=6.9 P4=13.9 P10=58.1 TSP=133.7
79	DB79	17 Aug	13:19	P1=2.2 P2.5=11.9 P4=26.7 P10=214.7 TSP=670.9
80	DB80	17 Aug	14:36	P1=2.3 P2.5=12.1 P4=21.5 P10=64.4 TSP=117.4
81	DB81	17 Aug '21	14:19	P1=2.3 P2.5=9.4 P4=17.6 P10=50 TSP=78.6
82	DB82	17 Aug	14:18	P1=2.4 P2.5=6.9 P4=14.9 P10=36.3 TSP=39.6
83	DB83	17 Aug	14:12	P1=2.2 P2.5=7.1 P4=11.4 P10=23.5 TSP=27.6
84	DB84	17 Aug	12:28	P1=1.6 P2.5=2.7 P4=11.8 P10=49.2 TSP=138.0
85	DB85	17 Aug	12:18	P1=2.2 P2.5=19.8 P4=30.8 P10=101.8 TSP=114.8
86	DB86	17 Aug	12:49	P1=1.6 P2.5=6.4 P4=15.7 P10=93.0 TSP=176.2
87	DB87	17 Aug	09:41	P1=3.6 P2.5=33.6 P4=66.9 P10=393.3 TSP=851.3
88	DB88	17 Aug	10:31	P1=1.6 P2.5=1.6 P4=16.2 P10=216.3 TSP=458.5
89	DB89	17 Aug	09:30	P1=1.2 P2.5=5.3 P4=9.8 P10=27.6 TSP=41.8

90	D890	17 Aug	08:51	P1=1.4 P2=5.6 P3=11.5 P10=25.3 TSP=30.2
91	D891	17 Aug	08:56	P1=1.8 P2=5.1 P3=16.1 P10=12.9 TSP=190.5
92	D892	17 Aug	<del>08:57</del> 08:58	P1=1.9 P2=9.0 P3=27.2 P10=82.7 TSP=12.9
93	D893	17 Aug	07:57	P1=2.5 P2=15.4 P3=38.7 P10=238.5 TSP=300.112
94	D894	17 Aug	08:05	P1=10 P2=62.4 P3=103.0 P10=108.5 TSP=108.5
95	D895	17 Aug 21	08:47	P1=2.9 P2=29 P3=70.1 P10=100.1 TSP=202.3
96	D896	17 Aug 21	10:55	P1=4.7 P2=23.0 P3=59.1 P10=166 TSP=191.9
97	D897	17 Aug 21	08:07 14:26	P1=2.5 P2=8.3 P3=14.5 P10=33.5 TSP=58.4
98	D898	17 Aug	14:01	P1=2.3 P2=9.8 P3=15.1 P10=34.4 TSP=49.6
99	D899	17 Aug	09:07	P1=1.2 P2=2.2 P3=19.3 P10=76.4 TSP=107.2
100	D8100	17 Aug	09:37	P1=6.7 P2=14.1 P3=29.5 P10=76.7 TSP=121.8

GBN-JV 2A-C-8.9 Air Monitoring				
No	Sample ID	Sample Date	Sample Time	Comment
1	DB01	16-Sep-21	08:45	$P_1 = 7.2$ $P_{SO_2} = 28.4$ $P_{CO} = 47.6$ $P_{NO} = 88.0$ TSP = 104.6
2	DB02	16-Sep-21	08:49	$P_1 = 7.1$ $P_{SO_2} = 29.7$ $P_{CO} = 51.1$ $P_{NO} = 87.6$ TSP = 99.3
3	DB03	15-Sep-21	14:10	$P_1 = 2.1$ $P_{SO_2} = 5.1$ $P_{CO} = 15.3$ $P_{NO} = 19.5$ TSP = 201.5
4	DB04	15-Sep-21	14:05	$P_1 = 2.4$ $P_{SO_2} = 9.7$ $P_{CO} = 15.3$ $P_{NO} = 33.3$ TSP = 40.7
5	DB05	15-Sep-21	14:00	$P_1 = 3.1$ $P_{SO_2} = 19$ $P_{CO} = 4.3$ $P_{NO} = 108.8$ TSP = 129.8
6	DB06	15-Sep-21	13:35	$P_1 = 2.2$ $P_{SO_2} = 7.4$ $P_{CO} = 13.3$ $P_{NO} = 41.9$ TSP = 67.2
7	DB07	15-Sep-21	15:53	$P_1 = 2.3$ $P_{SO_2} = 14.6$ $P_{CO} = 18.7$ $P_{NO} = 34.5$ TSP = 43.8
8	DB08	15-Sep-21	13:47	$P_1 = 2.3$ $P_{SO_2} = 11.7$ $P_{CO} = 19.5$ $P_{NO} = 68.3$ TSP = 96.3
9	DB09	16-Sep-21	10:19	$P_1 = 7.9$ $P_{SO_2} = 34.3$ $P_{CO} = 82.4$ $P_{NO} = 210.3$ TSP = 261.9
10	DB10	16-Sep-21	10:26	$P_1 = 8.2$ $P_{SO_2} = 42.2$ $P_{CO} = 91.8$ $P_{NO} = 246.4$ TSP = 238.3
11	DB11	16-Sep-21	09:49	$P_1 = 7.8$ $P_{SO_2} = 29.5$ $P_{CO} = 58.9$ $P_{NO} = 149.8$ TSP = 200.9
12	DB12	16-Sep-21	08:11	$P_1 = 7.3$ $P_{SO_2} = 31.4$ $P_{CO} = 51.7$ $P_{NO} = 87.8$ TSP = 109.9
13	DB13	16-Sep-21	06:28	$P_{SO_2} = 5.0$ $P_{NO} = 98.0$ $P_{CO} = 176.7$ $P_{NO_2} = 438.1$ TSP = 516
14	DB14	16-Sep-21	08:22	$P_1 = 7.3$ $P_{SO_2} = 28.6$ $P_{CO} = 47.5$ $P_{NO} = 79.2$ TSP = 95.9
15	DB15	15-Sep-21	13:20	$P_1 = 2.2$ $P_{SO_2} = 7.3$ $P_{CO} = 12.0$ $P_{NO} = 27.6$ TSP = 31.3
16	DB16	15-Sep-21	13:14	$P_1 = 2.2$ $P_{SO_2} = 7.8$ $P_{CO} = 13.7$ $P_{NO} = 32$ TSP = 42.5
17	DB17	15-Sep-21	13:07	$P_1 = 2.3$ $P_{SO_2} = 7.3$ $P_{CO} = 12.2$ $P_{NO} = 24.7$ TSP = 30.2
18	DB18	15-Sep-21	12:33	$P_1 = 2.4$ $P_{SO_2} = 10.2$ $P_{CO} = 19.2$ $P_{NO} = 62.5$ TSP = 81
19	DB19	15-Sep-21	12:27	$P_1 = 2.4$ $P_{SO_2} = 7.3$ $P_{CO} = 13.4$ $P_{NO} = 34.8$ TSP = 58.8
20	DB20	15-Sep-21	13:24	$P_1 = 2.7$ $P_{SO_2} = 8.6$ $P_{CO} = 15.6$ $P_{NO} = 46.1$ TSP = 58.9
21	DB21	15-Sep-21	12:21	$P_1 = 2.8$ $P_{SO_2} = 9.9$ $P_{CO} = 17.7$ $P_{NO} = 48.3$ TSP = 63.9
22	DB22	15-Sep-21	12:18	$P_1 = 3.0$ $P_{SO_2} = 16.5$ $P_{CO} = 26.2$ $P_{NO} = 71.4$ TSP = 109
23	DB23	15-Sep-21	12:14	$P_1 = 3.0$ $P_{SO_2} = 10.7$ $P_{CO} = 22.7$ $P_{NO} = 92.8$ TSP = 148.9
24	DB24	15-Sep-21	12:09	$P_1 = 2.9$ $P_{SO_2} = 5.8$ $P_{CO} = 35.7$ $P_{NO} = 125.6$ TSP = 187.9
25	DB25	15-Sep-21	12:07	$P_1 = 3.0$ $P_{SO_2} = 9.9$ $P_{CO} = 33.6$ $P_{NO} = 115.6$ TSP = 143.3
26	DB26	15-Sep-21	12:02	$P_1 = 3.2$ $P_{SO_2} = 9.5$ $P_{CO} = 48.6$ $P_{NO} = 153.5$ TSP = 175.3
27	DB27	15-Sep-21	11:59	$P_1 = 3.0$ $P_{SO_2} = 10.4$ $P_{CO} = 25.3$ $P_{NO} = 76.2$ TSP = 88.6
28	DB28	15-Sep-21	11:54	$P_1 = 2.9$ $P_{SO_2} = 9.0$ $P_{CO} = 21.6$ $P_{NO} = 61.9$ TSP = 71.4
29	DB29	15-Sep-21	11:51	$P_1 = 3.2$ $P_{SO_2} = 9.9$ $P_{CO} = 23.8$ $P_{NO} = 75.7$ TSP = 94.8
30	DB30	15-Sep-21	11:47	$P_1 = 3.2$ $P_{SO_2} = 13.2$ $P_{CO} = 28.5$ $P_{NO} = 79.8$ TSP = 102.6
31	DB31	15-Sep-21	11:43	$P_1 = 3.3$ $P_{SO_2} = 25.7$ $P_{CO} = 25.7$ $P_{NO} = 75.3$ TSP = 91.9
32	DB32	15-Sep-21	11:39	$P_1 = 3.1$ $P_{SO_2} = 11.6$ $P_{CO} = 22.5$ $P_{NO} = 61.9$ TSP = 78.5
33	DB33	15-Sep-21	11:35	$P_1 = 3.1$ $P_{SO_2} = 10.6$ $P_{CO} = 22.8$ $P_{NO} = 60.2$ TSP = 74.4
34	DB34	15-Sep-21	11:32	$P_1 = 3.3$ $P_{SO_2} = 8.1$ $P_{CO} = 23.6$ $P_{NO} = 58.4$ TSP = 83.1
35	DB35	15-Sep-21	11:30	$P_1 = 3.8$ $P_{SO_2} = 16.3$ $P_{CO} = 27.7$ $P_{NO} = 71.7$ TSP = 92.2
36	DB36	15-Sep-21	11:26	$P_1 = 3.6$ $P_{SO_2} = 12.2$ $P_{CO} = 24.5$ $P_{NO} = 69$ TSP = 97.3
37	DB37	15-Sep-21	11:24	$P_1 = 3.6$ $P_{SO_2} = 9.9$ $P_{CO} = 19.8$ $P_{NO} = 49.5$ TSP = 67.4
38	DB38	15-Sep-21	11:21	$P_1 = 3.4$ $P_{SO_2} = 10.6$ $P_{CO} = 20.4$ $P_{NO} = 53.2$ TSP = 69.2
39	DB39	15-Sep-21	11:19	$P_1 = 3.3$ $P_{SO_2} = 10.9$ $P_{CO} = 23.1$ $P_{NO} = 68.2$ TSP = 89.7
40	DB40	15-Sep-21	11:16	$P_1 = 3.8$ $P_{SO_2} = 13.6$ $P_{CO} = 20.7$ $P_{NO} = 69.9$ TSP = 95.8
41	DB41	15-Sep-21	11:13	$P_1 = 4.1$ $P_{SO_2} = 17.5$ $P_{CO} = 28.8$ $P_{NO} = 79.5$ TSP = 110.8
42	DB42	15-Sep-21	11:11	$P_1 = 3.6$ $P_{SO_2} = 11.8$ $P_{CO} = 20.8$ $P_{NO} = 66$ TSP = 68.8
43	DB43	15-Sep-21	11:08	$P_{SO_2} = 4.4$ $P_{NO} = 22.1$ $P_{CO} = 33$ $P_{NO_2} = 60.7$ TSP = 68.1

44	D844	15-Sep-21	10:46	P <sub>1</sub> =3.5 P <sub>2</sub> =9.9 P <sub>3</sub> =17.7 P <sub>4</sub> =46.9 TSP=53.6
45	D845	15-Sep-21	10:43	P <sub>1</sub> =3.5 P <sub>2</sub> =12.1 P <sub>3</sub> =19.9 P <sub>4</sub> =43.9 TSP=50
46	D846	15-Sep-21	09:57	P <sub>1</sub> =3.5 P <sub>2</sub> =12.5 P <sub>3</sub> =20 P <sub>4</sub> =45.9 TSP=54
47	D847	15-Sep-21	09:55	P <sub>1</sub> =3.5 P <sub>2</sub> =10.9 P <sub>3</sub> =19.3 P <sub>4</sub> =48.4 TSP=60.7
48	D848	15-Sep-21	09:33	P <sub>1</sub> =3.5 P <sub>2</sub> =10.3 P <sub>3</sub> =17.8 P <sub>4</sub> =42.2 TSP=52.1
49	D849	15-Sep-21	09:29	P <sub>1</sub> =3.5 P <sub>2</sub> =11.7 P <sub>3</sub> =19.8 P <sub>4</sub> =46.1 TSP=56.6
50	D850	15-Sep-21	09:26	P <sub>1</sub> =3.4 P <sub>2</sub> =12.0 P <sub>3</sub> =19.5 P <sub>4</sub> =44.1 TSP=52.7
51	D851	15-Sep-21	09:23	P <sub>1</sub> =3.3 P <sub>2</sub> =10.6 P <sub>3</sub> =19.1 P <sub>4</sub> =48.7 TSP=69.0
52	D852	15-Sep-21	09:21	P <sub>1</sub> =3.5 P <sub>2</sub> =10.5 P <sub>3</sub> =19.6 P <sub>4</sub> =46.6 TSP=73.8
53	D853	15-Sep-21	09:19	P <sub>1</sub> =3.5 P <sub>2</sub> =10.6 P <sub>3</sub> =17.9 P <sub>4</sub> =44 TSP=57.3
54	D854	15-Sep-21	09:17	P <sub>1</sub> =3.4 P <sub>2</sub> =10.4 P <sub>3</sub> =17.7 P <sub>4</sub> =48.9 TSP=50.8
55	D855	15-Sep-21	09:15	P <sub>1</sub> =3.4 P <sub>2</sub> =12 P <sub>3</sub> =19.6 P <sub>4</sub> =46.9 TSP=57.3
56	D856	15-Sep-21	09:13	P <sub>1</sub> =3.5 P <sub>2</sub> =11.7 P <sub>3</sub> =18.4 P <sub>4</sub> =35.3 TSP=41.9
57	D857	15-Sep-21	09:10	P <sub>1</sub> =3.5 P <sub>2</sub> =10.8 P <sub>3</sub> =17.5 P <sub>4</sub> =35.5 TSP=46.6
58	D858	15-Sep-21	06:30	P <sub>1</sub> =3.2 P <sub>2</sub> =10.1 P <sub>3</sub> =78.5 P <sub>4</sub> =24.16 TSP=327.9
59	D859	15-Sep-21	06:36	P <sub>1</sub> =3.5 P <sub>2</sub> =52.9 P <sub>3</sub> =197.7 P <sub>4</sub> = <del>35.5</del> TSP=474.3
60	D860	15-Sep-21	06:40	P <sub>1</sub> =2.4 P <sub>2</sub> =12.7 P <sub>3</sub> =37.6 P <sub>4</sub> =361 TSP=704.5
61	D861	15-Sep-21	06:47	P <sub>1</sub> =2.3 P <sub>2</sub> =10.8 P <sub>3</sub> =29 P <sub>4</sub> =90.8 TSP=124.1
62	D862	15-Sep-21	06:49	P <sub>1</sub> =2.5 P <sub>2</sub> =13.7 P <sub>3</sub> =23 P <sub>4</sub> =93.7 TSP=154.7
63	D863	15-Sep-21	06:53	P <sub>1</sub> =2.4 P <sub>2</sub> =10.5 P <sub>3</sub> =23.6 P <sub>4</sub> =92.4 TSP=163.3
64	D864	15-Sep-21	06:58	P <sub>1</sub> =2.1 P <sub>2</sub> =10.6 P <sub>3</sub> =18.1 P <sub>4</sub> =59.1 TSP=86.2
65	D865	15-Sep-21	07:01	P <sub>1</sub> =2.2 P <sub>2</sub> =10.5 P <sub>3</sub> =18.6 P <sub>4</sub> =44.3 TSP=62.1
66	D866	15-Sep-21	07:05	P <sub>1</sub> =2.5 P <sub>2</sub> =17.4 P <sub>3</sub> =30.4 P <sub>4</sub> =68.8 TSP=87.3
67	D867	15-Sep-21	07:09	P <sub>1</sub> =2.4 P <sub>2</sub> =12.6 P <sub>3</sub> =24.8 P <sub>4</sub> =41.9 TSP=88.7
68	D868	15-Sep-21	07:12	P <sub>1</sub> =2.5 P <sub>2</sub> =12.0 P <sub>3</sub> =29.2 P <sub>4</sub> =105.1 TSP=153.8
69	D869	15-Sep-21	07:15	P <sub>1</sub> =2.7 P <sub>2</sub> =16.3 P <sub>3</sub> =31.6 P <sub>4</sub> =29.2 TSP=128
70	D870	15-Sep-21	07:18	P <sub>1</sub> =2.7 P <sub>2</sub> =13.5 P <sub>3</sub> =30 P <sub>4</sub> =97 TSP=137.7
71	D871	15-Sep-21	07:21	P <sub>1</sub> =2.9 P <sub>2</sub> =15.1 P <sub>3</sub> =30 P <sub>4</sub> =92.1 TSP=168
72	D872	15-Sep-21	07:24	P <sub>1</sub> =3.6 P <sub>2</sub> =11 P <sub>3</sub> =18.1 P <sub>4</sub> =38.4 TSP=52.1
73	D873	15-Sep-21	07:30	P <sub>1</sub> =3.4 P <sub>2</sub> =11.5 P <sub>3</sub> =13.2 P <sub>4</sub> =31.1 TSP=38.9
74	D874	15-Sep-21	07:32	P <sub>1</sub> =3.5 P <sub>2</sub> =10.9 P <sub>3</sub> =17.4 P <sub>4</sub> =34 TSP=42.2
75	D875	15-Sep-21	07:34	P <sub>1</sub> =3.7 P <sub>2</sub> =16.7 P <sub>3</sub> =28 P <sub>4</sub> =66.6 TSP=1103.6
76	D876	15-Sep-21	07:37	P <sub>1</sub> =4 P <sub>2</sub> =15.3 P <sub>3</sub> =32.5 P <sub>4</sub> =76.5 TSP=86.9
77	D877	16-Sep-21	15:27	P <sub>1</sub> =1.7 P <sub>2</sub> =9.3 P <sub>3</sub> =15.3 P <sub>4</sub> =35.8 TSP=46.2
78	D878	16-Sep-21	18:24	P <sub>1</sub> =1.8 P <sub>2</sub> =6.9 P <sub>3</sub> =12.5 P <sub>4</sub> =35.0 TSP=44.8
79	D879	16-Sep-21	12:12	P <sub>1</sub> =3.0 P <sub>2</sub> =17.1 P <sub>3</sub> =103.6 P <sub>4</sub> =146.3 TSP=196.5
80	D880	16-Sep-21	12:14	P <sub>1</sub> =2.7 P <sub>2</sub> =17.7 P <sub>3</sub> =26.1 P <sub>4</sub> =52.6 TSP=64.1
81	D881	16-Sep-21	12:21	P <sub>1</sub> =2.3 P <sub>2</sub> =14.2 P <sub>3</sub> =21.6 P <sub>4</sub> =48.4 TSP=60.1
82	D882	16-Sep-21	12:30	P <sub>1</sub> =1.8 P <sub>2</sub> =7.3 P <sub>3</sub> =18.4 P <sub>4</sub> =45.5 TSP=69.2
83	D883	16-Sep-21	12:36	P <sub>1</sub> =31.2 P <sub>2</sub> =1.9 P <sub>3</sub> =7.2 P <sub>4</sub> =13.3 TSP=28.1
84	D884	16-Sep-21	11:16	P <sub>1</sub> =2.3 P <sub>2</sub> =8.7 P <sub>3</sub> =17.1 P <sub>4</sub> =79.4 TSP=110.4
85	D885	16-Sep-21	11:08	P <sub>1</sub> =2.3 P <sub>2</sub> =16.4 P <sub>3</sub> =21.9 P <sub>4</sub> =31.6 TSP=79.9
86	D886	16-Sep-21	11:36	P <sub>1</sub> =2.4 P <sub>2</sub> =16.2 P <sub>3</sub> =25.6 P <sub>4</sub> =53.4 TSP=79.3
87	D887	16-Sep-21	11:47	P <sub>1</sub> =3.3 P <sub>2</sub> =20.8 P <sub>3</sub> =43.8 P <sub>4</sub> =98.2 TSP=110.5
88	D888	16-Sep-21	10:26	P <sub>1</sub> =2.4 P <sub>2</sub> =9.7 P <sub>3</sub> =17 P <sub>4</sub> =37.6 TSP=48
89	D889	16-Sep-21	10:01	P <sub>1</sub> =2.9 P <sub>2</sub> =19.5 P <sub>3</sub> =40 P <sub>4</sub> =162.2 TSP=283.4

90	DB90	14-Sep-21	08:56	R=1.6 P <sub>1.5</sub> =10.5 P <sub>2.5</sub> =20.8 P <sub>0</sub> =50.1 TSP=57.5
91	DB91	14-Sep-21	08:49	R=1.8 P <sub>1.5</sub> =13.2 P <sub>2.5</sub> =25.6 P <sub>0</sub> =100.5 TSP=168.3
92	DB92	14-Sep-21	07:23	R=1.2 P <sub>1.5</sub> =15.1 P <sub>2.5</sub> =41.5 P <sub>0</sub> =136 TSP=180.6
93	DB93	14-Sep-21	07:39	R=2 P <sub>1.5</sub> =21.3 P <sub>2.5</sub> = <del>57.8</del> P <sub>0</sub> = <del>91.1</del> TSP= <del>201.7</del>
94	DB94	14-Sep-21	07:46	R=3 P <sub>1.5</sub> =34.2 P <sub>2.5</sub> =91.1 P <sub>0</sub> =285.4 TSP=277.8
95	DB95	14-Sep-21	06:20	PM=7.6 P <sub>1.5</sub> =108.5 P <sub>2.5</sub> =304.7 P <sub>0</sub> =943.9 TSP=885.2
96	DB96	14-Sep-21	08:17	R=7.4 P <sub>1.5</sub> =36.1 P <sub>2.5</sub> =58.9 P <sub>0</sub> =99.9 TSP=111.6
97	DB97	14-Sep-21	12:23	R=2.2 P <sub>1.5</sub> =10.6 P <sub>2.5</sub> =21.4 P <sub>0</sub> =51.6 TSP=69.5
98	DB98	14-Sep-21	13:03	R=2.2 P <sub>1.5</sub> =14.7 P <sub>2.5</sub> =28.9 P <sub>0</sub> =50.6 TSP=69.1
99	DB99	14-Sep-21	11:42	R=2.7 P <sub>1.5</sub> =16.6 P <sub>2.5</sub> =27.3 P <sub>0</sub> =60.2 TSP=70.6
100	DB100	14-Sep-21	08:41	R=1.5 P <sub>1.5</sub> =9.2 P <sub>2.5</sub> =19.0 P <sub>0</sub> =41.1 TSP=55.3

PM03/Y/09:35 (14-Sep-21)

PM02/Y/10:02 (14-Sep-21)

PM01/Y/13:46 (16-Sep-21)



GBN-JV 2A-C-8.9 Air Monitoring								
No	Sample ID	Sample Date	Sample Time	Comment				
1 (x)	DB01	12/10/2021	13:47	P <sub>1</sub> = 4.3	P <sub>2</sub> = 6.2	P <sub>3</sub> = 9.3	P <sub>4</sub> = 20.5	TSP = 28.5
2	DB02	12/10/2021	13:57	P <sub>1</sub> = 8.3	P <sub>2</sub> = 8.8	P <sub>3</sub> = 12.9	P <sub>4</sub> = 22.0	TSP = 25.5
3	DB03	12/10/2021	13:21	P <sub>1</sub> = 1.6	P <sub>2</sub> = 7.1	P <sub>3</sub> = 13.1	P <sub>4</sub> = 33.2	TSP = 40.0
4	DB04	12/10/2021	13:18	P <sub>1</sub> = 1.6	P <sub>2</sub> = 7.9	P <sub>3</sub> = 13.7	P <sub>4</sub> = 25.7	TSP = 29.4
5	DB05	12/10/2021	13:15	P <sub>1</sub> = 2	P <sub>2</sub> = 13.6	P <sub>3</sub> = 27.8	P <sub>4</sub> = 77.8	TSP = 108
6	DB06	12/10/2021	13:11	P <sub>1</sub> = 2.3	P <sub>2</sub> = 15.6	P <sub>3</sub> = 32.7	P <sub>4</sub> = 91.2	TSP = 117.7
7	DB07	12/10/2021	13:08	P <sub>1</sub> = 2.3	P <sub>2</sub> = 13.5	P <sub>3</sub> = 36.5	P <sub>4</sub> = 91.6	TSP = 130.6
8	DB08	12/10/2021	13:04	P <sub>1</sub> = 1.6	P <sub>2</sub> = 7.7	P <sub>3</sub> = 15.8	P <sub>4</sub> = 47.2	TSP = 50.2
9	DB09	13/10/2021	09:32	P <sub>1</sub> = 1.4	P <sub>2</sub> = 8.9	P <sub>3</sub> = 24.3	P <sub>4</sub> = 72.6	TSP = 83.6
10	DB10	13/10/2021	09:33	P <sub>1</sub> = 1.0	P <sub>2</sub> = 6.8	P <sub>3</sub> = 17.1	P <sub>4</sub> = 52.9	TSP = 65.9
11	DB11	13/10/2021	08:11	P <sub>1</sub> = 0.7	P <sub>2</sub> = 6.6	P <sub>3</sub> = 7.3	P <sub>4</sub> = 13.0	TSP = 16.1
12	DB12	12/10/2021	13:25	P <sub>1</sub> = 1.4	P <sub>2</sub> = 7.2	P <sub>3</sub> = 15.3	P <sub>4</sub> = 38.8	TSP = 43.8
13	DB13	8/10/2021	07:03	P <sub>1</sub> = 2.2	P <sub>2</sub> = 14	P <sub>3</sub> = 38.1	P <sub>4</sub> = 91.9	TSP = 138.6
14	DB14	12/10/2021	13:35 33	P <sub>1</sub> = 1.3	P <sub>2</sub> = 8.2	P <sub>3</sub> = 12.7	P <sub>4</sub> = 24.6	TSP = 35.8
15	DB15	12/10/2021	12:15	P <sub>1</sub> = 2.1	P <sub>2</sub> = 13	P <sub>3</sub> = 29.2	P <sub>4</sub> = 73.9	TSP = 85.7
16	DB16	12/10/2021	12:10	P <sub>1</sub> = 2.3	P <sub>2</sub> = 15.8	P <sub>3</sub> = 27.6	P <sub>4</sub> = 70.7	TSP = 77.6
17	DB17	13/10/2021	12:01	P <sub>1</sub> = 2.5	P <sub>2</sub> = 15.4	P <sub>3</sub> = 24.6	P <sub>4</sub> = 88.5	TSP = 103.9
18	DB18	12/10/2021	11:27	P <sub>1</sub> = 1.9	P <sub>2</sub> = 9.8	P <sub>3</sub> = 19.0	P <sub>4</sub> = 39.8	TSP = 42.2
19	DB19	12/10/2021	11:21	P <sub>1</sub> = 1.9	P <sub>2</sub> = 7.8	P <sub>3</sub> = 16.2	P <sub>4</sub> = 40.8	TSP = 49.4
20	DB20	12/10/2021	11:18	P <sub>1</sub> = 1.7	P <sub>2</sub> = 7.9	P <sub>3</sub> = 15.4	P <sub>4</sub> = 36.7	TSP = 42.4
21	DB21	12/10/2021	11:15	P <sub>1</sub> = 1.6	P <sub>2</sub> = 10.4	P <sub>3</sub> = 18.7	P <sub>4</sub> = 48.5	TSP = 68.2
22	DB22	12/10/2021	11:11	P <sub>1</sub> = 1.6	P <sub>2</sub> = 7.8	P <sub>3</sub> = 13.5	P <sub>4</sub> = 29.9	TSP = 41.6
23	DB23	12/10/2021	11:07	P <sub>1</sub> = 1.5	P <sub>2</sub> = 6.5	P <sub>3</sub> = 11.9	P <sub>4</sub> = 21.8	TSP = 26.8
24	DB24	12/10/2021	11:04	P <sub>1</sub> = 1.7	P <sub>2</sub> = 8.6	P <sub>3</sub> = 16.8	P <sub>4</sub> = 42.3	TSP = 53.3
25	DB25	12/10/2021	11:01	P <sub>1</sub> = 1.5	P <sub>2</sub> = 9.2	P <sub>3</sub> = 13.2	P <sub>4</sub> = 21.9	TSP = 25.6
26	DB26	12/10/2021	10:58	P <sub>1</sub> = 1.5	P <sub>2</sub> = 7.1	P <sub>3</sub> = 10.7	P <sub>4</sub> = 20.3	TSP = 23.4
27	DB27	12/10/2021	10:55	P <sub>1</sub> = 1.5	P <sub>2</sub> = 7	P <sub>3</sub> = 10.6	P <sub>4</sub> = 17.8	TSP = 21.5
28	DB28	12/10/2021	10:51	P <sub>1</sub> = 1.7	P <sub>2</sub> = 8.9	P <sub>3</sub> = 17.8	P <sub>4</sub> = 38.6	TSP = 52.6
29	DB29	12/10/2021	10:48	P <sub>1</sub> = 1.5	P <sub>2</sub> = 6.7	P <sub>3</sub> = 10.5	P <sub>4</sub> = 19.6	TSP = 27.0
30	DB30	12/10/2021	10:43	P <sub>1</sub> = 1.6	P <sub>2</sub> = 8.2	P <sub>3</sub> = 13.9	P <sub>4</sub> = 26.6	TSP = 34.6
31	DB31	12/10/2021	10:39	P <sub>1</sub> = 1.7	P <sub>2</sub> = 12.6	P <sub>3</sub> = 17.3	P <sub>4</sub> = 27.3	TSP = 34
32	DB32	12/10/2021	10:35	P <sub>1</sub> = 1.6	P <sub>2</sub> = 8.1	P <sub>3</sub> = 13.2	P <sub>4</sub> = 21.3	TSP = 26.2
33	DB33	12/10/2021	10:33	P <sub>1</sub> = 1.5	P <sub>2</sub> = 8.1	P <sub>3</sub> = 11.7	P <sub>4</sub> = 17.1	TSP = 19.5
34	DB34	12/10/2021	10:30	P <sub>1</sub> = 1.7	P <sub>2</sub> = 7.6	P <sub>3</sub> = 13.9	P <sub>4</sub> = 24.8	TSP = 24.3
35	DB35	12/10/2021	10:26	P <sub>1</sub> = 1.5	P <sub>2</sub> = 7.4	P <sub>3</sub> = 14.1	P <sub>4</sub> = 32.3	TSP = 44.9
36	DB36	12/10/2021	10:22	P <sub>1</sub> = 1.6	P <sub>2</sub> = 8	P <sub>3</sub> = 12.4	P <sub>4</sub> = 21.2	TSP = 24.2
37	DB37	12/10/2021	10:21	P <sub>1</sub> = 1.7	P <sub>2</sub> = 8.6	P <sub>3</sub> = 13.2	P <sub>4</sub> = 20.4	TSP = 22.3
38	DB38	12/10/2021	10:16	P <sub>1</sub> = 1.5	P <sub>2</sub> = 7.5	P <sub>3</sub> = 14.5	P <sub>4</sub> = 38.8	TSP = 62.2
39	DB39	12/10/2021	10:12	P <sub>1</sub> = 1.6	P <sub>2</sub> = 7.2	P <sub>3</sub> = 12.6	P <sub>4</sub> = 44.4	TSP = 51.9
40 (x)	DB40	12/10/2021	09:55	P <sub>1</sub> = 1.6	P <sub>2</sub> = 2.5	P <sub>3</sub> = 16.8	P <sub>4</sub> = 29.7	TSP = 34.6
41	DB41	12/10/2021	09:49	P <sub>1</sub> = 1.7	P <sub>2</sub> = 9	P <sub>3</sub> = 14	P <sub>4</sub> = 14.9	TSP = 31
42	DB42	12/10/2021	09:47	P <sub>1</sub> = 1.6	P <sub>2</sub> = 8	P <sub>3</sub> = 15	P <sub>4</sub> = 24.4	TSP = 31.2
43	DB43	12/10/2021	09:42	P <sub>1</sub> = 1.6	P <sub>2</sub> = 9.7	P <sub>3</sub> = 15.6	P <sub>4</sub> = 25.6	TSP = 34.8

44	DB44	12/10/2021	09:37	A= 1.6	B <sub>10</sub> = 9.0	B <sub>20</sub> = 15.4	B <sub>30</sub> = 30.5	TSP= 36.1
45	DB45	12/10/2021	08:52	A= 1.8	B <sub>10</sub> = 11.7	B <sub>20</sub> = 18	B <sub>30</sub> = 29.5	TSP= 37.3
46	DB46	12/10/2021	08:44	A= 1.9	B <sub>10</sub> = 10.1	B <sub>20</sub> = 16.9	B <sub>30</sub> = 34.3	TSP= 46.6
47	DB47	12/10/2021	08:44	A= 1.8	B <sub>10</sub> = 10.1	B <sub>20</sub> = 16.4	B <sub>30</sub> = 22.7	TSP= 26.5
48	DB48	12/10/2021	08:41	A= 2	B <sub>10</sub> = 1.5	B <sub>20</sub> = 25.2	B <sub>30</sub> = 59	TSP= 78.7
49	DB49	12/10/2021	08:36	A= 1.9	B <sub>10</sub> = 8.1	B <sub>20</sub> = 15.0	B <sub>30</sub> = 36.3	TSP= 53.8
50	DB50	12/10/2021	08:31	A= 2	B <sub>10</sub> = 12.2	B <sub>20</sub> = 19.2	B <sub>30</sub> = 31.6	TSP= 58.3
51	DB51	12/10/2021	08:27	A= 1.9	B <sub>10</sub> = 11.3	B <sub>20</sub> = 18.3	B <sub>30</sub> = 30.5	TSP= 36.2
52	DB52	12/10/2021	08:25	A= 2.0	B <sub>10</sub> = 10.3	B <sub>20</sub> = 17.6	B <sub>30</sub> = 27.9	TSP= 31.6
53	DB53	12/10/2021	08:20	A= 1.8	B <sub>10</sub> = 11	B <sub>20</sub> = 19	B <sub>30</sub> = 37.1	TSP= 50.7
54	DB54	12/10/2021	08:16	A= 1.8	B <sub>10</sub> = 12.7	B <sub>20</sub> = 19.3	B <sub>30</sub> = 32.0	TSP= 36.3
55	DB55	12/10/2021	08:13	A= 2	B <sub>10</sub> = 13.3	B <sub>20</sub> = 26.1	B <sub>30</sub> = 59.2	TSP= 82.6
56	DB56	12/10/2021	08:10	A= 1.8	B <sub>10</sub> = 10.2	B <sub>20</sub> = 19.5	B <sub>30</sub> = 38.2	TSP= 49.4
57	DB57	12/10/2021	08:06	A= 1.8	B <sub>10</sub> = 11.4	B <sub>20</sub> = 18.7	B <sub>30</sub> = 26.7	TSP= 27.3
58	DB58	12/10/2021	08:03	A= 2.0	B <sub>10</sub> = 11.8	B <sub>20</sub> = 20.9	B <sub>30</sub> = 39.5	TSP= 48.2
59	DB59	12/10/2021	08:00	A= 1.9	B <sub>10</sub> = 11.0	B <sub>20</sub> = 17.3	B <sub>30</sub> = 25.3	TSP= 31.4
60	DB60	12/10/2021	07:55	A= 1.9	B <sub>10</sub> = 11.9	B <sub>20</sub> = 18.5	B <sub>30</sub> = 25.6	TSP= 28.0
61	DB61	12/10/2021	07:47	A= 1.9	B <sub>10</sub> = 13.2	B <sub>20</sub> = 18.9	B <sub>30</sub> = 29.8	TSP= 35.8
62	DB62	12/10/2021	07:45	A= 1.9	B <sub>10</sub> = 12.0	B <sub>20</sub> = 19.8	B <sub>30</sub> = 29.9	TSP= 34.3
63	DB63	12/10/2021	07:42	A= 1.8	B <sub>10</sub> = 12.9	B <sub>20</sub> = 19.9	B <sub>30</sub> = 28.1	TSP= 30
64	DB64	12/10/2021	07:38	A= 1.8	B <sub>10</sub> = 12.5	B <sub>20</sub> = 21.8	B <sub>30</sub> = 35.9	TSP= 42.0
65	DB65	12/10/2021	07:35	A= 1.9	B <sub>10</sub> = 12.3	B <sub>20</sub> = 21.1	B <sub>30</sub> = 30.4	TSP= 32.8
66	DB66	12/10/2021	07:32	A= 1.9	B <sub>10</sub> = 13.4	B <sub>20</sub> = 21.8	B <sub>30</sub> = 31.4	TSP= 31.3
67	DB67	12/10/2021	07:28	A= 1.8	B <sub>10</sub> = 15	B <sub>20</sub> = 21.1	B <sub>30</sub> = 34.5	TSP= 37.8
68	DB68	12/10/2021	07:25	A= 1.7	B <sub>10</sub> = 12.4	B <sub>20</sub> = 21.6	B <sub>30</sub> = 53.6	TSP= 57.9
69 (X)	DB69	12/10/2021	07:21	A= 1.9	B <sub>10</sub> = 17.9	B <sub>20</sub> = 28.3	B <sub>30</sub> = 80.5	TSP= 60.9
70	DB70	12/10/2021	07:18	A= 1.7	B <sub>10</sub> = 12.3	B <sub>20</sub> = 20.6	B <sub>30</sub> = 26.2	TSP= 28.1
71	DB71	12/10/2021	07:15	A= 1.7	B <sub>10</sub> = 10.3	B <sub>20</sub> = 19	B <sub>30</sub> = 35.3	TSP= 40
72	DB72	12/10/2021	07:09	A= 1.8	B <sub>10</sub> = 13.6	B <sub>20</sub> = 16.9	B <sub>30</sub> = 22.3	TSP= 24.0
73	DB73	12/10/2021	07:04	A= 1.5	B <sub>10</sub> = 9.5	B <sub>20</sub> = 17.4	B <sub>30</sub> = 26.6	TSP= 30.3
74	DB74	12/10/2021	06:59	A= 1.8	B <sub>10</sub> = 15.1	B <sub>20</sub> = 28.4	B <sub>30</sub> = 64.8	TSP= 74.6
75 (X)	DB75	12/10/2021	06:57	A= 1.7	B <sub>10</sub> = 14.2	B <sub>20</sub> = 21.5	B <sub>30</sub> = 34.2	TSP= 39.1
76	DB76	12/10/2021	06:49	A= 1.6	B <sub>10</sub> = 11.6	B <sub>20</sub> = 21.5	B <sub>30</sub> = 33.7	TSP= 34.9
77	DB77	11/10/2021	13:41	A= 0.5	B <sub>10</sub> = 2.5	B <sub>20</sub> = 4.5	B <sub>30</sub> = 10.5	TSP= 22.5
78	DB78	11/10/2021	13:38	A= 0.6	B <sub>10</sub> = 1.8	B <sub>20</sub> = 3.6	B <sub>30</sub> = 9.8	TSP= 11.0
79	DB79	11/10/2021	12:41	A= 0.4	B <sub>10</sub> = 2.0	B <sub>20</sub> = 3.4	B <sub>30</sub> = 7.5	TSP= 11.2
80	DB80	11/10/2021	12:45	A= 0.5	B <sub>10</sub> = 0.5	B <sub>20</sub> = 6.2	B <sub>30</sub> = 49.7	TSP= 73.4
81	DB81	11/10/2021	12:52	A= 0.5	B <sub>10</sub> = 2.9	B <sub>20</sub> = 5.6	B <sub>30</sub> = 18.6	TSP= 23.5
82	DB82	11/10/2021	13:27	A= 0.6	B <sub>10</sub> = 2.5	B <sub>20</sub> = 10.9	B <sub>30</sub> = 42.4	TSP= 50.4
83	DB83	11/10/2021	13:22	A= 0.6	B <sub>10</sub> = 1.5	B <sub>20</sub> = 5.2	B <sub>30</sub> = 18.0	TSP= 22.9
84	DB84	11/10/2021	11:37	A= 0.8	B <sub>10</sub> = 2.8	B <sub>20</sub> = 5.9	B <sub>30</sub> = 17.3	TSP= 23.4
85	DB85	11/10/2021	11:28	A= 0.7	B <sub>10</sub> = 3.3	B <sub>20</sub> = 5.5	B <sub>30</sub> = 11.0	TSP= 19.0
86	DB86	11/10/2021	11:55	A= 0.7	B <sub>10</sub> = 3.0	B <sub>20</sub> = 4.8	B <sub>30</sub> = 8.4	TSP= 9.7
87	DB87	11/10/2021	12:05	A= 1.3	B <sub>10</sub> = 7.2	B <sub>20</sub> = 28.2	B <sub>30</sub> = 85.5	TSP= 107.1
88	DB88	11/10/2021	10:38	A= 1.4	B <sub>10</sub> = 12.5	B <sub>20</sub> = 25.9	B <sub>30</sub> = 53.7	TSP= 68.8
89	DB89	11/10/2021	10:12	A= 0.9	B <sub>10</sub> = 6.9	B <sub>20</sub> = 8.8	B <sub>30</sub> = 13.5	TSP= 20.9

90	D890	11/10/2021	09:06	R=1.5   R <sub>0</sub> =16.8	R <sub>1</sub> =23	P <sub>0</sub> =43.8	TSP=54.9
91	D891	11/10/2021	09:03	R=1.5   R <sub>0</sub> =16.5	R <sub>1</sub> =18.4	P <sub>0</sub> =18.3	TSP=31.8
92	D892	11/10/2021	08:36	R=2.0   R <sub>0</sub> =12.8	R <sub>1</sub> =22.1	P <sub>0</sub> =39.9	TSP=44.8
93	D893	11/10/2021	07:42	R=1.6   R <sub>0</sub> =9.1	R <sub>1</sub> =17.3	P <sub>0</sub> =35.5	TSP=41.7
94	D894	11/10/2021	07:47	R=1.7   R <sub>0</sub> =10.1	R <sub>1</sub> =21.1	P <sub>0</sub> =41.3	TSP=46.8
95	D895	11/10/2021	06:57	R=2.0   R <sub>0</sub> =11.4	R <sub>1</sub> =25.8	P <sub>0</sub> =65.3	TSP=83.2
96	D896	12/10/2021	13:28	R=1.6   R <sub>0</sub> =8.4	R <sub>1</sub> =13.1	P <sub>0</sub> =24	TSP=26.3
97	D897	11/10/2021	12:56	R=0.5   R <sub>0</sub> =1.8	R <sub>1</sub> =3.3	P <sub>0</sub> =8.9	TSP=10.7
98	D898	11/10/2021	13:14	R=0.6   R <sub>0</sub> =2.1	R <sub>1</sub> =6.5	P <sub>0</sub> =15.5	TSP=22.2
99	D899	11/10/2021	12:00	R=0.9   R <sub>0</sub> =3.6	R <sub>1</sub> =8.8	P <sub>0</sub> =22.3	TSP=26.6
100	D8100	11/10/2021	08:30	R=1.2   R <sub>0</sub> =6.2	R <sub>1</sub> =9.1	P <sub>0</sub> =18.2	TSP=21.9

PM02: ~~Suburban~~ <sup>School</sup> Medupi = 13/10/2021  $\neq$  10:15 (16 Sep  $\rightarrow$  13 Oct)

PM02: <sup>School</sup> ~~Medupi~~ = 11/10/2021 : 10:13 (14 Sep  $\rightarrow$  11 Oct)

PM03: Modimolle = 11/10/2021 : 09:09 (14 Sep  $\rightarrow$  11 Oct)

GBN-JV 2A-C-8.9 Air Monitoring								
No	Sample ID	Date	Time	Comment				
				PM 1	PM 2.5	PM 4	PM 10	TSP
1	DB01	9/12/2021	08:31	2.0	11.9	21.0	42.7	59.4
2	DB02	9/12/2021	08:25	1.5	7.6	14.3	27.3	36.6
3	DB03	9/12/2021	08:01	1.3	8.2	14.6	23.5	24.1
4	DB04	9/12/2021	07:57	1.3	6.3	12.3	24.7	26.6
5	DB05	9/12/2021	07:54	1.3	6.8	14.0	28.9	32.0
6	DB06	9/12/2021	07:51	1.4	7.4	14.2	26.6	29.1
7	DB07	9/12/2021	07:48	1.5	7.3	14.3	24.9	26.1
8	DB08	9/12/2021	07:24	1.4	6.8	14.0	25.0	26.8
9	DB09	9/12/2021	07:31	1.2	6.5	14.2	33.7	43.5
10	DB10	9/12/2021	07:36	1.2	8.4	15.4	46.5	71.8
11	DB11	9/12/2021	07:07	1.2	6.6	13.8	24.4	24.4
12	DB12	8/12/2021	06:54	0.7	5.2	7.0	12.1	14.0
13	DB13	8/12/2021	07:16	1.1	5.8	15.9	65.8	99.7
14	DB14	8/12/2021	17:01	0.7	3.2	4.6	9.4	11.8
15	DB15	9/12/2021	08:59	1.1	5.8	10.3	23.2	31.9
16	DB16	9/12/2021	09:09	1.3	6.9	11.4	17.1	17.7
17	DB17	9/12/2021	09:12	1.30	ACCESS (NEW GATE)			
18	DB18	9/12/2021	14:03	6.4	13.2	13.1	27.0	27.2
19	DB19	9/12/2021	13:58	5.5	19.4	24.2	43.8	66.6
20	DB20	9/12/2021	13:56	6.0	11.2	13.6	19.4	27.4
21	DB21	9/12/2021	13:51	12.2	13.5	21.0	26.7	28.0
22	DB22	9/12/2021	13:47	12.3	13.7	20.4	26.5	27.7
23	DB23	9/12/2021	13:41	6.8	14.2	13.2	19.7	23.4
24	DB24	9/12/2021	13:39	5.9	10.4	13.9	22.8	28.3
25	DB25	9/12/2021	13:36	4.5	2.8	9.9	14.7	13.4
26	DB26	9/12/2021	13:33	5.4	11.1	14.8	26.0	36.5
27	DB27	9/12/2021	13:30	6.8	11.6	13.9	17.3	20.4
28	DB28	9/12/2021	13:26	7.9	13.0	15.1	20.2	26.4
29	DB29	9/12/2021	13:23	7.1	11.2	12.7	22.8	40.0
30	DB30	9/12/2021	13:20	9.0	15.9	13.4	25.9	28.9
31	DB31	9/12/2021	13:15	13.0	19.5	22.3	27.9	31.6
32	DB32	9/12/2021	13:10	7.8	15.2	18.5	25.0	26.2
33	DB33	9/12/2021	13:08	9.0	15.6	18.3	22.9	24.2
34	DB34	9/12/2021	13:05	8.9	15.8	18.5	23.7	37.2
35	DB35	9/12/2021	13:03	10.3	17.1	21.0	25.7	27.5
36	DB36	9/12/2021	13:00	10.5	19.5	23.1	30.7	32.0
37	DB37	9/12/2021	12:58	8.3	13.8	16.3	20.7	21.3
38	DB38	9/12/2021	12:56	7.3	15.0	18.0	24.4	30.0
39	DB39	9/12/2021	12:52	8.6	12.7	15.5	22.9	29.6
40	DB40	9/12/2021	12:50	9.7	22.6	25.8	34.1	39.0
41	DB41	9/12/2021	12:48	8.8	16.3	19.4	31.2	49.7
42	DB42	9/12/2021	12:44	6.9	10.5	16.2	24.5	35.7
43	DB43	9/12/2021	12:40	4.1	10.8	13.3	15.8	17.0

GBN-JV 2A-C-8.9 Air Monitoring								
No	Sample ID	Date	Time	Comment				
				PM 1	PM 2.5	PM 4	PM 10	TSP
44	DB44	9/12/2021	12:55	10.8	12.1	21.2	27.9	27.8
45	DB45	9/12/2021	12:51	8.3	15.7	19.7	23.5	26.6
46	DB46	9/12/2021	12:27	6.3	12.3	16.4	21.4	21.6
47	DB47	9/12/2021	12:24	7.8	12.0	15.9	21.5	24.0
48	DB48	9/12/2021	12:22	5.2	11.8	15.6	22.3	24.2
49	DB49	9/12/2021	12:17	3.6	16.5	19.8	42.6	67.9
50	DB50	9/12/2021	12:12	5.9	15.4	18.2	30.4	43.3
51	DB51	9/12/2021	12:09	3.9	9.0	11.7	16.3	18.7
52	DB52	9/12/2021	12:06	3.7	16.5	18.4	27.6	35.0
53	DB53	9/12/2021	12:03	3.1	7.3	10.2	17.9	22.2
54	DB54	9/12/2021	11:53	3.1	10.6	12.0	19.3	22.4
55	DB55	9/12/2021	11:50	3.4	10.4	16.3	21.6	23.1
56	DB56	9/12/2021	11:46	3.6	8.6	11.7	23.6	33.9
57	DB57	9/12/2021	11:43	4.8	10.9	13.0	17.7	25.1
58	DB58	9/12/2021	11:05	6.9	9.4	10.4	12.7	17.7
59	DB59	9/12/2021	11:07	3.8	7.4	9.3	17.9	24.7
60	DB60	9/12/2021	10:19	10.1	9.9	11.6	28.2	39.7
61	DB61	9/12/2021	10:20	2.0	6.8	7.3	16.7	23.5
62	DB62	9/12/2021	10:22	2.2	9.4	13.4	33.5	64.9
63	DB63	9/12/2021	10:25	2.3	6.0	8.4	28.0	30.2
64	DB64	9/12/2021	10:34	2.5	6.8	10.4	30.2	36.1
65	DB65	9/12/2021	10:37	2.1	5.0	6.5	9.8	11.0
66	DB66	9/12/2021	10:41	2.8	6.7	10.2	43.1	66.5
67	DB67	9/12/2021	10:45	2.2	5.0	8.2	33.3	61.9
68	DB68	9/12/2021	10:48	2.6	5.9	7.5	9.5	12.6
69	DB69	9/12/2021	10:51	3.2	8.9	12.5	29.8	49.5
70	DB70	9/12/2021	10:54	2.7	9.3	13.6	40.1	69.1
71	DB71	9/12/2021	10:57	2.8	5.9	7.9	13.5	16.1
72	DB72	9/12/2021	16:04	2.5	6.1	8.7	21.2	38.8
73	DB73	9/12/2021	16:08	2.7	6.5	8.7	22.2	29.6
74	DB74	9/12/2021	16:10	3.2	6.1	8.7	21.0	31.5
75	DB75	9/12/2021	16:15	3.6	6.8	9.6	26.7	48.2
76	DB76	9/12/2021	16:24	3.4	7.7	13.3	17.9	27.4
77	DB77	8/12/2021	16:07	0.9	3.1	5.3	14.9	19.3
78	DB78	8/12/2021	16:05	0.7	4.1	6.3	16.4	23.4
79	DB79	8/12/2021	13:58	1.1	8.4	10.1	16.0	20.3
80	DB80	8/12/2021	13:55	1.1	5.8	7.7	13.2	14.4
81	DB81	8/12/2021	13:50	0.8	3.8	5.8	13.3	17.7
82	DB82	8/12/2021	13:42	0.8	3.0	5.8	16.6	25.9
83	DB83	8/12/2021	13:36	0.8	3.7	6.4	16.9	24.7
84	DB84	8/12/2021	11:17	0.7	2.4	4.1	11.6	12.9
85	DB85	8/12/2021	11:09	0.8	3.0	4.7	7.3	10.8
86	DB86	8/12/2021	09:54	0.7	2.1	3.1	5.7	7.5

**GBN-JV 2A-C-8.9 Air Monitoring**

No	Sample ID	Date	Time	Comment				
				PM 1	PM 2.5	PM 4	PM 10	TSP
87	DB87	8/12/2021	09:45	0.5	2.1	3.3	4.4	4.4
88	DB88	8/12/2021	10:20	0.6	3.3	4.9	8.2	11.3
89	DB89	8/12/2021	10:02	0.7	4.4	9.6	47.6	66.7
90	DB90	8/12/2021	08:41	0.6	2.3	4.1	9.9	16.7
91	DB91	8/12/2021	08:23	0.7	2.2	4.8	14.7	20.9
92	DB92	8/12/2021	09:15	0.5	2.4	4.5	10.1	17.3
93	DB93	8/12/2021	11:49	0.9	4.6	10.5	37.1	55.6
94	DB94	8/12/2021	11:58	0.7	2.8	5.5	13.0	13.0
95	DB95	8/12/2021	07:11	1.2	3.8	15.9	67.6	100.9
96	DB96	8/12/2021	16:57	0.8	2.5	5.7	20.0	31.1
97	DB97	8/12/2021	13:46	0.8	3.2	4.7	9.6	12.7
98	DB98	8/12/2021	13:02	NO ACCESS - Farmer Forgot to Open Gate.				
99	DB99	8/12/2021	09:50	0.6	1.6	5.5	16.5	23.6
100	DB100	8/12/2021	08:16	0.8	2.9	5.6	12.5	14.3

PM03: Moolivalleri - 08-12-2021 - 08:38

PM01: School - 08-12-2021 - 10:04

PM02: Eskom - Medupi - 009-12-2021 - 08:17

GBN-JV 2A-C-8.9 Air Monitoring								
No	Sample ID	Date	Time	Comment				
				PM 1	PM 2.5	PM 4	PM 10	TSP
1	DB01	19/01/2022	07h56	1.6	14.7	40.1	88.8	102.9
2	DB02	"	08h59	1.9	11.0	62.7	201.4	233.5
3	DB03	"	07h55	0.8	5.4	11.6	30.3	39.6
4	DB04	19/01/2022	07h52	3.2	45.0	74.5	165.5	190.1
5	DB05	19/01/2022	07h47	1.6	1.6	8.9	807.4	1039.8
6	DB06	19/01/2022	07h42	2.6	70.8	84.0	136.5	171.6
7	DB07	19/01/2022	07h40	1.1	9.7	27.1	85.4	114.4
8	DB08	19/01/2022	07h31	0.8	7.1	17.0	40.3	69.0
9	DB09	19/01/2022	07h16	0.9	5.3	15.4	44.2	55.9
10	DB10	"	07h21	1.4	8.7	30.3	58.0	72
11	DB11	"	09h41	1.5	6.4	21.2	92.0	175.8
12	DB12	19/01/2022	08h00	0.8	5.7	16.7	67.7	122.6
13	DB13	17/1/2022	17h40	2.0	7.3	15.3	22.8	28.3
14	DB14	19/01/2022	08h07	0.9	6.0	13.7	52.1	92.1
15	DB15	17/1/2022	12h52	1.2	9.7	22.6	46.4	52.5
16	DB16	17/1/2022	12h58	1.4	10.3	21.4	39.2	47.8
17	DB17	19/01/2022	09h30 (School)	1.2	9.1	18.7	43.2	52.4
18	DB18	19/1/2022	10h46	2.3	7.5	13.8	30.1	42.5
19	DB19	"	10h51	2.1	6.7	13.3	33.8	65.4
20	DB20	"	10h56	1.7	6.5	12.1	27.7	38.8
21	DB21	"	10h59	1.8	6.8	14.5	50.4	93.5
22	DB22	"	11h05	2.4	7.8	11.8	26.5	39.5
23	DB23	"	11h10	2.4	9.2	19.2	56.0	80.6
24	DB24	"	11h13	2.8	29.4	34	48.2	55.6
25	DB25	"	11h19	1.8	7.1	11.5	24.3	32.9
26	DB26	"	11h23	1.8	6.0	9.3	16.7	17.9
27	DB27	"	11h25	1.7	5.2	8.0	12.3	13.5
28	DB28	"	11h34	2.0	7.5	11.7	18.7	23.1
29	DB29	"	11h38	1.8	4.4	10.3	30.6	44.8
30	DB30	"	11h44	1.8	5.2	10.8	32.3	50.8
31	DB31	"	11h48	1.9	7.0	11.7	23.1	27.4
32	DB32	"	11h53	1.9	6.0	10.1	19.1	24.7
33	DB33	"	11h56	1.9	7.8	10.7	16.7	18.0
34	DB34	"	12h03	1.9	5.9	9.7	17.3	20.4
35	DB35	"	12h05	2.0	8.8	15.5	36.6	51.4
36	DB36	"	12h12	2.0	6.6	10.4	19.1	24.6
37	DB37	" (Camp)	12h14	2.3	8.7	19.7	52.2	86.1
38	DB38	"	12h22	2.2	6.8	12.4	31.5	49.3
39	DB39	"	12h26	2.5	5.6	15.4	62.0	121.3
40	DB40	"	12h30	2.5	8.5	13.0	31.4	41.3
41	DB41	"	12h35	3.1	11.0	19.9	52.6	72.3
42	DB42	"	12h37	2.2	7.5	14.6	41.1	50.9
43	DB43	"	12h41	2.4	6.5	13.1	34.9	47.3

GBN-JV 2A-C-8.9 Air Monitoring								
No	Sample ID	Date	Time	Comment				
				PM 1	PM 2.5	PM 4	PM 10	TSP
44	DB44	19/01/2022	12h49	3.2	16.9	22.4	49.0	106.2
45	DB45	"	12h53	3	6.9	14.0	59.2	110.5
46	DB46	"	13h31	3	7.6	10.6	17.6	18.9
47	DB47	"	13h35	2.5	6.1	12.4	15.1	42.0
48	DB48	"	13h39	2.9	9.7	16.0	46.5	74.3
49	DB49	"	13h44	3.0	8.9	15.2	39.5	41.4
50	DB50	"	13h48	3.0	9.5	14.2	24.9	26.8
51	DB51	"	13h53	2.8	12.9	17.1	32.9	47.1
52	DB52	"	13h58	2.7	7.3	15	49.5	84.6
53	DB53	"	14h08	2.6	7.8	12.3	25.8	40.6
54	DB54	"	14h11	3.5	29.9	35.4	56.5	68.2
55	DB55	"	14h17	3.2	10.5	17.9	41.3	56.2
56	DB56	"	16h23	3.2	6.0	9.8	20.3	23.9
57	DB57	"	14h26	3.2	5.9	10.1	31.7	58.8
58	DB58	17/1/2022	15h28	2.3	7.1	10.9	19.7	20.4
59	DB59	"	15h34	2.2	7.8	14.8	39.1	56.9
60	DB60	"	15h37	2.0	4.7	10.1	26.9	42.9
61	DB61	"	15h46	2.8	7.1	10.3	20.4	30.0
62	DB62	"	15h48	3.5	8.0	11.4	19.2	25.9
63	DB63	"	15h52	3.5	6.9	12.2	38.3	73.4
64	DB64	"	15h58	3.7	8.0	11.2	19.9	22.3
65	DB65	"	16h01	3.5	7.8	11.0	18.2	20.0
66	DB66	"	16h06	4.1	9.6	20.1	47.3	69.1
67	DB67	"	16h11	3.5	7.7	10.6	17.3	18.5
68	DB68	"	16h16	3.5	8.2	11.7	20.8	26.4
69	DB69	"	16h20	3.8	6.1	11.1	15.5	18.6
70	DB70	"	16h25	4.0	5.7	12.2	15.7	17.3
71	DB71	"	16h28	4.2	9.8	25.6	49.6	73.2
72	DB72	"	16h33	3.7	7.9	11.2	18.7	21.8
73	DB73	"	16h38	3.6	8.2	12.3	27.8	42.6
74	DB74	"	16h41	3.5	7.3	9.9	17.8	18.4
75	DB75	"	16h44	2.5	4.9	11.5	22.7	30.4
76	DB76	"	16h51	3.9	10.1	22.7	50.4	56.9
77	DB77	"	16h56	3.0	12.8	16.0	24.9	41.7
78	DB78	"	16h59	3.5	7.9	10.8	18.2	22.5
79	DB79	"	17h03	3.4	7.2	10.0	15.6	17.4
80	DB80	18/1/2022	14h17	0.9	4.8	15.7	42.5	56.7
81	DB81	18/1/2022	14h13	0.8	5.7	12.2	24.2	30.4
82	DB82	18/1/2022	14h02	0.8	5.6	11.7	16.8	20.5
83	DB83	18/1/2022	13h56	0.9	6.3	11.5	17.5	19.9
84	DB84	18/1/2022	11h11	0.7	6.1	10.2	16.2	16.8
85	DB85	18/1/2022	10h05	0.7	4.9	9.7	15.5	17.3
86	DB86	18/1/2022	10h24	0.8	5.4	10.8	15.7	17.6



**GBN-JV 2A-C-8.9 Air Monitoring**

No	Sample ID	Date	Time	Comment				
				PM 1	PM 2.5	PM 4	PM 10	TSP
87	D887	18/1/2022	10h12	1.2	10.4	17.1	33.7	41.7
88	D888	18/1/2022	10h02	1.2	5.4	11.8	20.6	23.7
89	D889	18/1/2022	09h43	1.2	7.7	14.6	25.4	31.0
90	D890	18/1/2022	11h52	0.7	6.3	10.3	16.7	21.1
91	D891	18/1/2022	11h46	0.7	4.2	8.9	14.1	14.7
92	D892	18/1/2022	09h10	1.4	7.3	14.1	23.7	25.5
93	D893	18/1/2022	09h00	2.5	9.2	18.8	47.7	92.1
94	D894	18/1/2022	08h52	3.7	11.8	19.7	32.3	34.1
95	D895	17/1/2022	17h36	1.9	8.5	16.9	28.0	31.7
96	D896	19/1/2022	08h04	0.8	9.2	14.0	26.9	31.2
97	D897	18/1/2022	14h08	0.9	4.7	10.4	18.4	20.9
98	D898	NSA	NA	NO	ACCESS			
99	D899	18/1/2022	10h17	1.2	4.3	9.9	15.4	16.6
100	D8100	18/1/2022	11h39	0.6	4.2	8.6	13.8	15.6

School : 18/01/2022 = 10h01

Mooraglei : 18/01/2022 = 12h19

Medupi : 19/01/2022 = 08h32

GBN-JV 2A-C-8.9 Air Monitoring								
No	Sample ID	Date	Time	Comment				
				PM 1	PM 2.5	PM 4	PM 10	TSP
1	DB01	15/02/2022	08h49	1.1	9.2	19.7	41.2	59.0
2	DB02	15/02/2022	08h43	1.1	8.9	18.5	39.8	56.4
3	DB03	15/02/2022	08h41	1.2	10.4	20.0	29.7	40.2
4	DB04	15/02/2022	08h05	1.3	11.2	23.3	45.6	52.4
5	DB05	15/02/2022	08h02	3.0	32.1	20.5	48.1	219.1 (24)
6	DB06	15/02/2022	07h59	1.1	7.9	16.7	32.8	38.9
7	DB07	15/02/2022	07h56	1.1	9.1	16.5	29.8	36.0
8	DB08	15/02/2022	07h34	1.1	7.9	15.6	27.6	31.7
9	DB09	15/02/2022	07h40	1.1	8.0	14.9	24.8	27.8
10	DB10	15/02/2022	07h44	1.2	9.3	17.1	32.0	36.3
11	DB11	15/02/2022	07h14	1.1	8.0	15.9	31.1	35.0
12	DB12	15/02/2022	08h17	1.4	14.7	30.1	50.6	70.1
13	DB13	14/02/2022	10h09	1.2	13.6	25.6	81.4	135.0
14	DB14	15/02/2022	08h24	1.2	9.8	18.6	30.5	37.9
15	DB15	15/02/2022	10h19	0.9	10.0	11.3	38.1	50.1
16	DB16	15/02/2022	10h24	0.9	7.1	12.8	43.8	77.2
17	DB17	15/02/2022	Stolen	0.8	7.2	13.7	41.2	59.7
18	DB18	15/02/2022	11h06	0.9	10.6	17.4	67.9	81.2
19	DB19	15/02/2022	11h16	0.7	6.7	11.0	50.7	106.8
20	DB20	15/02/2022	11h20	0.8	5.1	11.5	30.3	36.1
21	DB21	15/02/2022	11h24	0.8	5.8	10.9	27.9	35.3
22	DB22	15/02/2022	11h27	0.7	4.5	9.6	21.9	25.0
23	DB23	15/02/2022	11h32	1.1	8.0	13.2	24.0	31.7
24	DB24	15/02/2022	11h35	0.8	6.2	9.5	22.8	33.1
25	DB25	15/02/2022	11h38	1.1	7.0	12.2	33.9	58.8
26	DB26	15/02/2022	11h41	0.7	4.3	9.0	20.1	28.1
27	DB27	15/02/2022	11h44	1.4	15.1	32.1	51.4	71.1
28	DB28	15/02/2022	11h48	0.8	5.4	10.1	38.1	50
29	DB29	15/02/2022	11h51	0.8	5.9	11.0	30.6	42.0
30	DB30	15/02/2022	11h54	0.8	5.7	10.8	37.4	40.0
31	DB31	15/02/2022	11h58	1.1	9.0	19.8	39.9	54.9
32	DB32	15/02/2022	12h03	1.0	8.9	24.0	35.8	37.3
33	DB33	15/02/2022	12h08	0.9	10.3	25.8	30.3	38.8
34	DB34	15/02/2022	12h11	1.3	15.0	33.4	75.6	92.8
35	DB35	15/02/2022	12h13	0.8	4.5	8.7	20.5	27.2
36	DB36	15/02/2022	12h17	0.8	7.7	11.5	30.8	38.7
37	DB37	15/02/2022	Stolen	0.9	7.8	15.6	31.2	41.1
38	DB38	15/02/2022	12h22	0.8	4.7	11.7	28.8	36.6
39	DB39	15/02/2022	12h25	0.8	5.0	12.1	30.6	41.1
40	DB40	15/02/2022	12h28	0.8	6.0	11.1	24.3	30.5
41	DB41	15/02/2022	12h30	1.5	15.3	24.9	41.4	44.5
42	DB42	15/02/2022	12h32	0.7	4.4	9.0	23.3	33.1
43	DB43	15/02/2022	12h35	0.8	4.8	11.4	51.3	111.2

GBN-JV 2A-C-8.9 Air Monitoring								
No	Sample ID	Date	Time	Comment				
				PM 1	PM 2.5	PM 4	PM 10	TSP
44	DB44	14/02/2022	17h25	1.0	9.8	13.9	26.9	50.6
45	DB45	14/02/2022	17h19	1.0	4.3	9.0	29.0	51.2
46	DB46	14/02/2022	17h12	0.9	3.3	10.0	42.6	74.6
47	DB47	14/02/2022	17h08	1.1	4.8	11.3	34.6	46.0
48	DB48	14/02/2022	16h58	1.0	4.6	10.2	32.0	50.3
49	DB49	14/02/2022	16h54	0.9	5.3	10.2	24.1	30.6
50	DB50	14/02/2022	TAMP (P)	1.3	6.8	12.4	40.3	38.9
51	DB51	14/02/2022	16h45	0.9	3.8	8.5	22.0	31.9
52	DB52	14/02/2022	16h41	1.0	3.9	9.8	25.0	26.3
53	DB53	14/02/2022	16h37	0.9	4.9	9.9	23.8	28.7
54	DB54	14/02/2022	16h30	0.9	3.9	9.2	21.3	25.7
55	DB55	14/02/2022	16h26	0.9	4.6	9.5	23.1	30.0
56	DB56	14/02/2022	16h24	0.9	4.8	9.1	20.3	28.6
57	DB57	14/02/2022	16h19	0.9	4.8	9.7	21.2	23.0
58	DB58	14/02/2022	15h53	0.9	6.3	11.5	28.1	37.3
59	DB59	14/02/2022	15h49	0.8	4.5	8.9	25.6	36.7
60	DB60	14/02/2022	15h46	0.9	5.8	11.0	23.7	26.8
61	DB61	14/02/2022	15h41	0.8	5.1	9.5	20.3	26.5
62	DB62	14/02/2022	15h38	0.9	5.6	9.9	22.1	32.0
63	DB63	14/02/2022	15h35	0.9	4.5	9.0	18.6	21.0
64	DB64	14/02/2022	15h32	0.9	4.6	9.0	24.4	32.5
65	DB65	14/02/2022	15h29	0.8	4.1	9.2	24.3	32.9
66	DB66	14/02/2022	15h25	0.9	5.2	10.3	27.3	34.7
67	DB67	14/02/2022	15h22	0.8	3.3	9.2	36.9	77.6
68	DB68	14/02/2022	15h18	0.9	3.0	11.2	57.9	120.2
69	DB69	14/02/2022	14h55	1.0	7.4	15.6	51.5	82.3
70	DB70	14/02/2022	14h53	0.9	5.6	12.3	31.5	43.2
71	DB71	14/02/2022	14h49	1.0	4.7	10.1	25.2	29.5
72	DB72	14/02/2022	14h40	0.9	4.3	9.1	29.3	34.7
73	DB73	14/02/2022	14h34	0.9	4.6	9.7	25.6	30.6
74	DB74	14/02/2022	14h31	0.9	4.5	10.0	29.5	38.7
75	DB75	14/02/2022	14h29	1.0	4.7	9.9	28.6	34.8
76	DB76	14/02/2022	14h25	0.8	4.1	9.4	36.3	49.3
77	DB77	14/02/2022	14h20	1.0	6.2	12.1	38.9	57.4
78	DB78	14/02/2022	14h17	0.9	4.9	10.0	27.3	40.2
79	DB79	14/02/2022	13h13	1.0	4.0	12.0	61.9	120.5
80	DB80	14/02/2022	13h17	0.9	4.9	10.5	26.3	32.4
81	DB81	14/02/2022	13h23	1.1	8.6	25.1	74.4	85.5
82	DB82	14/02/2022	13h35	1.1	4.2	24.5	27.7	40.3
83	DB83	14/02/2022	13h39	1.1	6.7	12.5	26.6	33.4
84	DB84	14/02/2022	NO ACCESS					
85	DB85	14/02/2022						
86	DB86	14/02/2022	12h28	0.9	5.3	13.4	57.1	57.1

GBN-JV 2A-C-8.9 Air Monitoring								
No	Sample ID	Date	Time	Comment				
				PM 1	PM 2.5	PM 4	PM 10	TSP
87	DB87	14/02/2022	12h08	1.3	13.1	30.3	87.6	105.5
88	DB88	14/02/2022	12h13	1.0	6.9	15.4	45.2	52.0
89	DB89	14/02/2022	12h01	1.1	7.9	22.2	77.3	111.3
90	DB90	14/02/2022	11h40	1.0	4.9	13.4	41.3	47.5
91	DB91	14/02/2022	11h36	0.9	4.9	10.5	29.6	28.1
92	DB92	14/02/2022	11h06	1.1	10.2	17.2	36.8	41.6
93	DB93	14/02/2022	10h48	1.0	8.0	13.3	29.4	44.8
94	DB94	14/02/2022	10h35	1.0	6.1	12.2	30.7	36.4
95	DB95	14/02/2022	10h05	1.1	8.0	18.2	56.7	98.4
96	DB96	15/02/2022	08h20	1.0	9.6	34.5	58.2	99.0
97	DB97	14/02/2022	13h29	1.1	6.8	12.6	26.5	33.9
98	DB98	14/02/2022	13h58	0.9	5.0	10.5	22.3	27.9
99	DB99	14/02/2022	12h24	1.6	8.0	33.1	101.8	124.0
100	DB100	14/02/2022	11h27	1.0	6.1	12.9	28.8	50.4

Maavaleri → 14-02-2022 → 11:44  
 School → 14-02-2022 → 12:02  
 Medupi → 15-02-2022 → 09:39

MARCH - 2022

GBN-JV 2A-C-8.9 Air Monitoring								
No	Sample ID	Date	Time	Comment				
				PM 1	PM 2.5	PM 4	PM 10	TSP
1	DB01	16/3/22	09h16	0.0	0.1	1.4	5.7	6.3
2	DB02	"	09h22	0.1	0.7	2.0	13.1	15.0
3	DB03	"	08h33	0.1	0.1	0.9	3.3	3.4
4	DB04	"	08h30	0.1	0.4	2.0	6.1	7.9
5	DB05	"	08h27	0.2	1.2	3.0	8.9	12.6
6	DB06	"	<del>08h28</del>	0.2	1.8	2.9	8.7	11.7
7	DB07	"	08h21	0.2	0.6	2.0	9.3	9.3
8	DB08	16/03/2022	08h01	0.1	0.2	3.0	19.2	22.3
9	DB09	"	08h05	0.1	0.4	1.6	8.5	10.3
10	DB10	"	08h12	0.2	0.8	2.1	5.5	7.8
11	DB11	16/3/2022	07h44	0.1	0.6	2.0	7.1	9.6
12	DB12	16/3/22	08h37	0.1	0.7	2.1	8.2	9.8
13	DB13	15/3/22	10h24	1.7	7.4	15.4	52.7	72.7
14	DB14	16/3/22	08h43	0.1	0.2	0.7	4.0	6.5
15	DB15	"	09h48	0.2	<del>0.8</del> 3.0	4.8	16.0	17.0
16	DB16	"	09h53	0.0	0.1	1.1	10.0	12.4
17	DB17	"	STOLEN	0.1	0.1	0.1	27.9	46.4
18	DB18	"	10h34	0.2	2.0	4.2	16.7	19.1
19	DB19	"	10h43	0.2	0.6	1.9	9.2	10.1
20	DB20	"	10h47	0.1	0.5	1.9	6.4	7.1
21	DB21	"	<del>09h49</del>	0.8	0.8	2.8	9.2	9.8
22	DB22	"	10h51	0.2	0.7	1.5	11.1	20.0
23	DB23	"	10h34	0.2	0.8	3.1	8.8	12.2
24	DB24	"	10h56	0.2	2.9	6.2	23.5	26.4
25	DB25	"	10h59	0.1	2.6	4.0	13.2	18.1
26	DB26	"	11h02	0.2	1.8	2.6	5.9	7.1
27	DB27	"	11h05	0.2	1.1	4.1	40.9	63.1
28	DB28	"	11h09	0.5	12.5	18.1	57.7	72.4
29	DB29	"	11h12	0.2	0.8	1.8	10.4	15.3
30	DB30	"	11h17	0.5	14.1	19.4	48.0	65.0
31	DB31	"	11h19	0.2	2.0	15.1	24.6	30.6
32	DB32	"	11h24	0.9	6.9	11.9	35.4	45.2
33	DB33	"	11h25	0.1	0.7	2.0	6.5	10.2
34	DB34	"	11h29	0.7	2.8	6.4	30.8	40.7
35	DB35	"	11h34	0.2	0.8	3.0	5.7	9.8
36	DB36	"	11h35	0.5	13.4	22.0	40.1	64.1
37	DB37	"	11h37	0.1	0.6	3.1	13.3	20.1
38	DB38	"	11h39	0.2	0.9	2.2	8.9	24.0
39	DB39	"	11h41	0.1	2.8	5.9	12.9	17.4
40	DB40	"	11h43	0.1	1.2	2.7	8.5	11.7
41	DB41	"	11h44	0.2	3.1	5.9	23.7	18.0
42	DB42	"	11h45	0.1	2.3	4.0	5.8	10.0
43	DB43	"	11h48	0.2	0.8	2.1	5.7	12.1

March - 2022

GBN-JV 2A-C-8.9 Air Monitoring								
No	Sample ID	Date	Time	Comment				
				PM 1	PM 2.5	PM 4	PM 10	TSP
44	DB44	16/3/2022	11h52	0.4	6.3	8.8	27.4	37.3
45	DB45	16/3/22	11h55	0.1	1.1	2.5	8.8	11.9
46	DB46	"	11h58	0.1	0.1	1.0	15.1	19.4
47	DB47	"	12h02	0.2	1.3	2.8	9.0	12.0
48	DB48	"	12h05	0.1	0.2	0.2	21.8	60.1
49	DB49	"	12h08	0.1	1.2	2.4	7.9	11.5
50	DB50	"	12h10	0.2	0.4	1.3	8.1	10.5
51	DB51	"	12h14	0.2	2.4	4.4	15.7	30.1
52	DB52	"	12h16	0.1	0.2	5.0	12.3	30.4
53	DB53	"	12h19	0.1	0.6	2.0	5.2	8.7
54	DB54	"	12h21	0.2	1.9	6.7	14.5	28.1
55	DB55	"	12h23	0.2	1.1	4.1	10.4	22.8
56	DB56	"	12h25	0.1	0.2	2.5	6.5	22.2
57	DB57	16/3/22	12h30	0.2	3.1	5.5	21.4	23.0
58	DB58	15/3/22	<del>16h32</del> 16h32	0.2	1.8	2.9	7.4	7.8
59	DB59	15/3/22	16h32	0.2	0.7	1.7	5.9	6.5
60	DB60	15/3/22	16h35	0.1	0.8	1.6	5.7	6.3
61	DB61	15/3/22	16h40	0.1	0.6	1.8	5.2	6.4
62	DB62	15/3/22	16h43	0.4	3.5	5.5	23.0	26.7
63	DB63	15/3/22	16h47	0.2	0.8	2.0	6.9	8.7
64	DB64	15/3/22	16h51	0.3	2.3	4.8	14.8	22.2
65	DB65	15/3/22	16h54	0.2	0.5	3.0	17.8	21.5
66	DB66	15/3/22	16h58	0.5	11.4	15.5	43.9	56.8
67	DB67	15/3/22	17h01	0.4	1.7	8.5	56.8	78.4
68	DB68	15/3/22	17h04	0.3	1.3	3.8	14.9	22.9
69	DB69	15/3/22	17h08	0.6	1.8	7.7	43.5	58.9
70	DB70	15/3/22	17h11	0.5	5.9	6.2	20.5	22.9
71	DB71	15/3/22	17h15	0.7	1.8	8.4	38.0	52.2
72	DB72	15/3/22	17h20	0.3	4.2	4.9	26.0	29.9
73	DB73	15/3/22	17h24	0.9	20.5	22.2	33.3	35.8
74	DB74	15/3/22	17h26	0.6	2.0	9.3	47.7	60.1
75	DB75	15/3/22	STOLEN	0.4	1.8	8.4	53.4	75.3
76	DB76	15/3/22	17h31	0.2	1.1	2.2	6.3	7.8
77	DB77	15/3/22	16h05	0.4	1.7	5.5	22.8	28.9
78	DB78	15/3/22	16h02	0.3	0.9	3.0	8.7	13.0
79	DB79	15/3/22	15h59	0.3	0.9	2.7	9.3	11.7
80	DB80	15/3/22	15h54	0.2	0.8	3.1	10.6	11.8
81	DB81	15/3/22	15h51	0.3	0.9	4.1	13.1	18.9
82	DB82	15/3/22	15h42	0.2	1.0	2.7	10.4	11.6
83	DB83	15/3/22	15h36	0.3	1.1	5.9	41.5	80.3
84	DB84	15/3/22	NO ACCESS			2.8	4.5	8.4
85	DB85	15/3/22	NO ACCESS			2.8	4.5	8.4
86	DB86	15/3/22	12h26	0.4	1.4	4.1	12.9	17.8

GBN-JV 2A-C-8.9 Air Monitoring								
No	Sample ID	Date	Time	Comment				
				PM 1	PM 2.5	PM 4	PM 10	TSP
87	DB87	15/3/22	12h11	0.4	2.3	7.8	25.2	30.3
88	DB88	15/3/22	12h06	0.4	2.1	8.2	24.3	28.7
89	DB89	15/3/22	14h30	0.2	2.1	9.0	12.1	14.5
90	DB90	15/3/22	11h29	0.6	2.0	9.4	64.2	84.2
91	DB91	15/3/22	11h26	0.9	3.8	11.5	58.0	86.0
92	DB92	15/3/22	11h06	1.1	6.3	10.7	29.7	34.7
93	DB93	15/3/22	10h58	1.4	2.8	10.4	45.1	55.0
94	DB94	15/3/22	10h50	1.3	<del>7.3</del> 3.5	<del>19.9</del> 7.7	<del>19.9</del> 19.9	21.7
95	DB95	15/03/22	10h19	1.6	4.1	10.1	22.3	24.8
96	DB96	16/3/22	08h40	0.1	0.4	1.1	3.2	3.4
97	DB97	15/3/22	15h46	0.2	0.6	3.4	10.3	10.3
98	DB98	15/3/22	15h28	0.2	0.8	3.1	8.8	10.7
99	DB99	15/3/22	12h15	0.6	<del>2.9</del>	9.3	40.7	47.5
100	DB100	15/3/22	11h20	0.8	2.4	6.2	14.1	17.1

Mooivalei E-Sampler - 15-03-2022 → 11h34

Thaba Tholo Primary School E-Sampler - 15-03-2022 → 14h30

Eskom Medupi Power Station → 16-03-2022 → 09h08

GBN-JV 2A-C-8.9 Air Monitoring								
No	Sample ID	Date	Time	Comment				
				PM 1	PM 2.5	PM 4	PM 10	TSP
1	DB01	16/4/2022	10h06	0.1	1.2	4.6	20.4	30.4
2	DB02	16/4/2022	10h32	4.0	169.4	169.4	246.0	267.6
3	DB03	16/4/2022	08h36	0.3	1.3	6.4	23.0	27.3
4	DB04	16/4/2022	08h11	0.9	6.6	29.1	116.1	136.3
5	DB05	16/4/2022	08h07	2.4	23.2	65.2	284.2	301.1
6	DB06	16/4/2022	08h02	4.7	42.2	92.8	378.7	42.2
7	DB07	16/4/2022	7h59	0.5	1.6	8.4	40.4	47.1
8	DB08	16/4/2022	7h54	0.3	1.2	4.1	14.3	19.0
9	DB09	16/4/2022	7h44	0.4	1.8	6.7	10.5	40.0
10	DB10	16/4/2022	7h27	0.5	2.4	14.9	40.4	199.6
11	DB11	16/4/2022	7h22	0.3	1.6	7.8	38.0	43.3
12	DB12	16/4/2022	08h16	0.3	1.0	5.4	42.0	54.0
13	DB13	13/4/2022	10h36	0.3	1.4	8.6	30.4	43.1
14	DB14	16/4/2022	08h23	0.6	4.3	9.0	27.9	32.3
15	DB15	NO ACCESS						
16	DB16	NO ACCESS						
17	DB17	Stolen						
18	DB18	13/4/2022	20h20	0.5	1.7	8.6	45.0	48.1
19	DB19	13/4/2022	20h16	0.2	1.5	7.9	20.0	19.0
20	DB20	13/4/2022	20h14	0.6	4.0	11.0	25.0	31.0
21	DB21	13/4/2022	20h11	0.5	6.4	10.8	27.9	32.3
22	DB22	13/4/2022	20h07	0.4	1.1	3.7	11.4	18.0
23	DB23	13/4/2022	20h03	1.0	8.1	13.1	24.0	30.8
24	DB24	13/4/2022	20h01	0.3	6.5	11.0	20.0	24.7
25	DB25	13/4/2022	19h58	0.3	5.4	10.9	23.2	25.0
26	DB26	13/4/2022	19h55	0.4	4.1	9.7	22.8	25.0
27	DB27	13/4/2022	19h53	0.3	1.8	9.4	20.5	50.6
28	DB28	13/4/2022	19h49	0.4	1.9	14.7	25.1	40.1
29	DB29	13/4/2022	19h45	0.4	2.1	18.7	30.2	53.2
30	DB30	13/4/2022	19h42	0.5	1.7	10.2	24.7	30.2
31	DB31	13/4/2022	19h39	0.3	1.4	9.7	57.8	70.8
32	DB32	13/4/2022	19h35	0.3	1.1	13.9	35.8	35.9
33	DB33	13/4/2022	19h33	1.1	1.8	22.0	29.0	68.9
34	DB34	13/4/2022	19h30	0.3	1.3	9.6	23.2	50.4
35	DB35	13/4/2022	19h29	0.4	1.8	10.10	20.4	32.2
36	DB36	13/4/2022	19h27	0.3	1.6	7.9	18.8	36.4
37	DB37	13/4/2022	19h26	0.4	2.2	20.0	20.1	20.7
38	DB38	13/4/2022	19h24	0.4	1.9	19.6	24.5	34.8
39	DB39	13/4/2022	19h21	0.3	2.4	15.4	23.8	54.0
40	DB40	13/4/2022	19h19	0.3	2.9	16.7	25.7	46.2
41	DB41	13/4/2022	19h18	0.4	4.0	16.3	28.0	44.9
42	DB42	13/4/2022	19h17	0.4	5.2	15.1	30.2	39.3
43	DB43	13/4/2022	19h13	0.3	1.2	4.9	15.1	15.0

(Very Busy Road)

(Close to Motorway)



GBN-JV 2A-C-8.9 Air Monitoring								
No	Sample ID	Date	Time	Comment				
				PM 1	PM 2.5	PM 4	PM 10	TSP
44	DB44	13/6/2022	19h06	0.3	1.2	10.5	20.5	30.8
45	DB45	13/6/2022	19h02	0.4	1.4	9.8	23.0	42.3
46	DB46	13/6/2022	18h59	0.4	2.8	9.9	20.7	38.7
47	DB47	13/6/2022	18h57	0.4	2.3	10.1	21.0	24.7
48	DB48	13/6/2022	18h54	0.3	2.0	9.8	29.0	27.9
49	DB49	13/6/2022	18h51	0.3	2.7	7.4	27.0	31.1
50	DB50	13/6/2022	18h47	0.3	1.9	7.3	24.3	28.9
51	DB51	13/6/2022	18h45	0.3	1.8	6.5	22.2	23.7
52	DB52	13/6/2022	18h42	0.3	1.7	8.1	21.9	30.1
53	DB53	13/6/2022	18h40	0.4	1.5	6.2	22.7	28.3
54	DB54	13/6/2022	18h37	0.4	1.8	5.0	25.9	30.0
55	DB55	13/6/2022	18h34	0.3	1.7	8.5	24.1	27.5
56	DB56	13/6/2022	18h30	0.3	1.7	8.4	19.4	20.1
57	DB57	13/6/2022	18h27	0.5	1.4	10.1	30.4	32.0
58	DB58	13/6/2022	18h25	0.3	1.4	10.5	25.8	27.7
59	DB59	13/6/2022	18h22	0.3	1.5	7.5	20.1	22.6
60	DB60	13/6/2022	18h20	0.4	1.6	5.8	21.3	25.6
61	DB61	13/6/2022	18h17	0.4	1.5	11.0	29.7	38.7
62	DB62	13/6/2022	18h15	0.4	1.1	4.7	28.7	35.0
63	DB63	13/6/2022	18h13	0.5	1.0	10.1	27.1	33.8
64	DB64	13/6/2022	18h10	0.4	1.1	8.7	22.9	29.9
65	DB65	13/6/2022	18h07	0.3	1.1	6.5	30.0	57.0
66	DB66	13/6/2022	18h05	0.3	1.3	6.5	17.5	25.1
67	DB67	13/6/2022	18h02	0.3	1.4	7.8	26.1	36.2
68	DB68	13/6/2022	18h00	0.5	1.2	5.8	30.1	36.2
69	DB69	13/6/2022	17h57	0.2	1.3	11.2	18.7	34.0
70	DB70	13/6/2022	17h53	0.2	1.2	8.7	26.3	30.1
71	DB71	13/6/2022	17h50	0.3	2.8	7.8	30.1	47.0
72	DB72	13/6/2022	17h47	0.4	2.4	13.2	28.7	38.9
73	DB73	13/6/2022	17h42	0.1	1.8	9.0	30.0	41.4
74	DB74	13/6/2022	17h40	0.3	1.4	10.1	27.8	31.1
75	DB75	13/6/2022	17h38	0.5	1.2	10.8	29.1	35.6
76	DB76	13/6/2022	17h34	0.4	1.2	9.7	24.9	27.0
77	DB77	13/6/2022	17h27	0.1	1.3	12.0	25.3	29.3
78	DB78	13/6/2022	17h23	0.2	1.2	10.3	26.8	27.0
79	DB79	13/6/2022	16h34	0.1	2.4	11.4	30.2	40.7
80	DB80	13/6/2022	16h32	0.2	1.9	10.0	29.0	30.5
81	DB81	13/6/2022	16h40	0.2	1.4	8.7	28.7	29.1
82	DB82	13/6/2022	16h47	0.2	1.3	14.1	31.2	40.0
83	DB83	13/6/2022	16h52	0.2	1.8	10.8	30.0	35.8
84	DB84	13/6/2022	16h47	0.2	2.0	11.1	29.7	30.0
85	DB85	13/6/2022	16h36	0.2	1.4	9.0	26.0	27.0
86	DB86	13/6/2022	12h42	0.2	1.3	15.0	27.0	31.0

(3 rounds)  
(3 rounds)

GBN-JV 2A-C-8.9 Air Monitoring								
No	Sample ID	Date	Time	Comment				
				PM 1	PM 2.5	PM 4	PM 10	TSP
87	DB87	13/4/2022	14h15	0.4	1.8	5.8	24.0	30.4
88	DB88	13/4/2022	14h20	0.5	2.4	6.7	23.2	27.5
89	DB89	13/4/2022	12h00	0.4	1.8	10.1	28.8	40.1
90	DB90	13/4/2022	14h34	0.4	1.3	4.9	26.7	42.2
91	DB91	13/4/2022	14h30	0.5	1.6	6.6	30.4	32.7
92	DB92	13/4/2022	11h38	0.3	2.5	7.6	30.1	47.3
93	DB93	13/4/2022	11h28	0.3	4.2	5.8	28.7	25.9
94	DB94	13/4/2022	14h20	0.3	5.4	5.9	27.0	24.3
95	DB95	13/4/2022	10h30	0.4	6.1	7.9	27.9	43.0
96	DB96	14/4/2022	09h20	0.4	4.3	8.5	45.0	80.0
97	DB97	13/4/2022	16h44	0.5	5.4	7.2	38.1	22.7
98	DB98	13/4/2022	16h57	0.5	7.6	6.4	24.3	32.4
99	DB99	13/4/2022	12h37	0.4	5.2	7.3	32.3	44.0
100	DB100	13/4/2022	11h55	0.5	8.1	12.0	22.3	33.3

PM01 - School → 13/4/2022 → 12h01

PM02 - Modupi (Esbon) → 14/04/2022 → 09h10h19

PM03 - Modupi 13/04/2022 → 14h37

# YANKA LABORATORIES

P080X 11306AERORANDMIDDELBURG 1055 TEL: 013 692 8448 FAX: 0865511 874

## SAMPLE CONDITION REPORT

CLIENT: Envass GBN-JV MONTHLY DUST

EO:

JOBNO:W18/

ATTENTION: Damon, Anton and Carl

Adv.Note

DATE RECEIVED:

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLED	IL CHEMISTRY SAMPLE	500mL MICROBIOLOGY SAMPLE S06	BOD & COD	COMMENTS
SpEnvass 1	DB 1	2/6/2021				28 Days
SpEnvass 2	DB 2	"				"
SpEnvass 3	DB 3	"				"
SpEnvass 4	DB 4	"				"
SpEnvass 5	DB 5	"				"
SpEnvass 6	DB 6	"				"
SpEnvass 7	DB 7	"				"
SpEnvass 8	DB 8	"				"
SpEnvass 9	DB 9	3/6/2021				27 Days
SpEnvass 10	DB 10	"				28 Days
SpEnvass 11	DB 11	"				"
SpEnvass 12	DB 12	N				No Access
SpEnvass 13	DB 13	N				No Access
SpEnvass 14	DB 14	N				No Access
SpEnvass 15	DB 15	2/6/2021				28 Days
SpEnvass 16	DB 16	"				"
SpEnvass 17	DB 17	"				"
SpEnvass 18	DB 18	"				"
SpEnvass 19	DB 19	"				"
SpEnvass 20	DB 20	"				"
SpEnvass 21	DB 21	"				"
SpEnvass 22	DB 22	"				"
SpEnvass 23	DB 23	"				"
SpEnvass 24	DB 24	"				"
SpEnvass 25	DB 25	"				"
SpEnvass 26	DB 26	"				"
SpEnvass 27	DB 27	"				"
SpEnvass 28	DB 28	"				"
SpEnvass 29	DB 29	"				"
SpEnvass 30	DB 30	"				"
TOTAL SAMPLES						

Analysis Required : Domestic :General :

Sewage :

MB

Selected:

RECEIVED BY: Ndabire Higgs 01/06/2021

DELIVERED BY:  
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PAGE 1 OF 1

# YANKA LABORATORIES

P080X 11306AERORANDMIDDELBURG 1055 TEL: 013 692 8448 FAX: 086551 1 871

## SAMPLE CONDITION REPORT

CLIENT: Envass GBN-JV MONTHLY DUST  
ATTENTION: Damon, Anton and Carl

EO:

JOBNO:W18/

Adv.Note

DATE RECEIVED:

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLED	IL CHEMISTRY SAMPLE	500mL MICROBIOLOGY SAMPLE	S06	BOD & COD	COMMENTS
SpEnvass 1	DB 31	2/6/2021					28 Days
SpEnvass 2	DB 32	11					11
SpEnvass 3	DB 33	11					11
SpEnvass 4	DB 34	11					11
SpEnvass 5	DB 35	11					11
SpEnvass 6	DB 36	11					11
SpEnvass 7	DB 37	11					11
SpEnvass 8	DB 38	11					11
SpEnvass 9	DB 39	11					11
SpEnvass 10	DB 40	11					11
SpEnvass 11	DB 41	11					11
SpEnvass 12	DB 42	11					11
SpEnvass 13	DB 43	11					11
SpEnvass 14	DB 44	11					11
SpEnvass 15	DB 45	11					11
SpEnvass 16	DB 46	11					11
SpEnvass 17	DB 47	11					11
SpEnvass 18	DB 48	11					11
SpEnvass 19	DB 49	11					11
SpEnvass 20	DB 50	11					11
SpEnvass 21	DB 51	11					11
SpEnvass 22	DB 52	11					11
SpEnvass 23	DB 53	11					11
SpEnvass 24	DB 54	11					11
SpEnvass 25	DB 55	11					11
SpEnvass 26	DB 56	11					11
SpEnvass 27	DB 57	11					11
SpEnvass 28	DB 58	1/6/2021					27 Days
SpEnvass 29	DB 59	1/6/2021					27 Days
SpEnvass 30	DB 60	1/6/2021					27 Days
		TOTAL SAMPLES					27 Days

Analysis Required : Domestic :General :

Sewage :

MB

Selected:

RECEIVED BY: Nadine Higgs on 16/6/21

DELIVERED BY:  
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PAGE 1 OF 1

# YANKA LABORATORIES

P050X 11396AERORANDMIDDELBURG 1055 TEL: 013 662 8448 FAX: 0865511 871

## SAMPLE CONDITION REPORT

CLIENT: Envass GBN-JV MONTHLY DUST

EO:

JOBNO:W18/

ATTENTION: Damon, Anton and Carl

Adv.Note

DATE RECEIVED:

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLED	IL CHEMISTRY SAMPLE	500mL MICROBIOLOGY SAMPLE S06	BOD & COD	COMMENTS
SpEnvass 1	DB 61	1/6/2021				27 Days
SpEnvass 2	DB 62	u				u
SpEnvass 3	DB 63	u				u
SpEnvass 4	DB 64	u				u
SpEnvass 5	DB 65	u				u
SpEnvass 6	DB 66	u				u
SpEnvass 7	DB 67	u				u
SpEnvass 8	DB 68	u				u
SpEnvass 9	DB 69	u				u
SpEnvass 10	DB 70	u				u
SpEnvass 11	DB 71	u				u
SpEnvass 12	DB 72	u				u
SpEnvass 13	DB 73	u				u
SpEnvass 14	DB 74	u				u
SpEnvass 15	DB 75	No				Seaien
SpEnvass 16	DB 76	u				27 Days
SpEnvass 17	DB 77	u				u
SpEnvass 18	DB 78	u				u
SpEnvass 19	DB 79	u				28 Days
SpEnvass 20	DB 80	u				u
SpEnvass 21	DB 81	u				u
SpEnvass 22	DB 82	u				u
SpEnvass 23	DB 83	u				u
SpEnvass 24	DB 84	u				u
SpEnvass 25	DB 85	u				u
SpEnvass 26	DB 86	u				u
SpEnvass 27	DB 87	u				u
SpEnvass 28	DB 88	u				u
SpEnvass 29	DB 89	u				u
SpEnvass 30	DB 90	u				u
TOTAL SAMPLES						

Analysis Required : Domestic : General :

Sewage :

MB

Selected:

RECEIVED BY: Nadine Higgs on 16/01/21

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PAGE 1 OF 1

# YANKA LABORATORIES

PCSOX 11308AERORANDMIDDELBURG 1056 TEL: 013 692 8448 FAX: 0865511 671

## SAMPLE CONDITION REPORT

CLIENT: Envass GBN-JV MONTHLY DUST  
ATTENTION: Damon, Anton and Carl

EO:

JOBNO: W18/

Adv. Note

DATE RECEIVED:

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLED	IL CHEMISTRY SAMPLE	500ml MICROBIOLOGY SAMPLE S06	BOD & COD	COMMENTS
SpEnvass 1	DB 91	3/6/2021				30 Days
SpEnvass 2	DB 92	1/6/2021				28 Days
SpEnvass 3	DB 93	"				"
SpEnvass 4	DB 94	"				"
SpEnvass 5	DB 95	"				"
SpEnvass 6	DB 96	3/6/2021				28 Days
SpEnvass 7	DB 97	1/6/2021				28 Days
SpEnvass 8	DB 98	"				"
SpEnvass 9	DB 99	"				"
SpEnvass 10	DB 100	"				28 Days
TOTAL SAMPLES						

Analysis Required : Domestic : General :

Sewage :

MB

Selected:

RECEIVED BY: Nadine Higgs 07106 

DELIVERED BY:  
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PAGE 1 OF 1

Source: U.S. Census Bureau, *Marriage, Divorce, Remarriage in the 1990s* (Washington, DC: U.S. Government Printing Office, 1996), p. 10.

## SAMPLE CONDITION REPORT

EQ

JOHN W. WILSON

[illegible]

## DATE RECEIVED:

Analysis Required: Domestic : General :

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ME

**Abstract**

DELIVERED BY: F-401

1000

# YANKA LABORATORIES

PO BOX 108489 DORCHESTER MA 01921 TEL: 508-680-8400 FAX 508-680-1111

## SAMPLE CONDITION REPORT

CUSTOMER: Envars GBN-JV MONTHLY DUST

EO:

JOE MO/W18/

ATTENTION: Denise, Arlen and Carl

Adv Note

DATE RECEIVED:

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLED	IL CHEMISTRY SAMPLE	SEM-EDS MICROANALYSIS SAMPLE	BOB & COO	COMMENTS
SpEnvars 1	DB 31	Y				
SpEnvars 2	DB 32	Y				
SpEnvars 3	DB 33	Y				
SpEnvars 4	DB 34	Y				
SpEnvars 5	DB 35	Y				
SpEnvars 6	DB 36	Y				
SpEnvars 7	DB 37	Y				
SpEnvars 8	DB 38	Y				
SpEnvars 9	DB 39	Y				
SpEnvars 10	DB 40	Y				
SpEnvars 11	DB 41	Y				
SpEnvars 12	DB 42	Y				
SpEnvars 13	DB 43	Y				
SpEnvars 14	DB 44	Y				
SpEnvars 15	DB 45	Y				
SpEnvars 16	DB 46	Y				
SpEnvars 17	DB 47	Y				
SpEnvars 18	DB 48	Y				
SpEnvars 19	DB 49	Y				
SpEnvars 20	DB 50	Y				
SpEnvars 21	DB 51	Y				
SpEnvars 22	DB 52	Y				
SpEnvars 23	DB 53	Y				
SpEnvars 24	DB 54	Y				
SpEnvars 25	DB 55	Y				
SpEnvars 26	DB 56	Y				
SpEnvars 27	DB 57	Y				
SpEnvars 28	DB 58	Y				
SpEnvars 29	DB 59	Y				
SpEnvars 30	DB 60	Y				
		TOTAL SAMPLES				

69 Days

Analysis Required : Domestic (General)

Seavage :

MB

Selected:

RECEIVED BY: Nadine Higgs 22/1/2021  
 DELIVERED BY: Emlak

FILE 1 OF 1



# YANKA LABORATORIES

PRIVACY COMPLAINTS AND CONCERNS: 1-800-368-1111, 1-800-368-1111, 1-800-368-1111

## SAMPLE CONDITION REPORT

CLIENT: Enness GBN-JV MONTHLY DUST  
ATTENTION: Damon, Anson and Carl

EO:

JOB#: 19161

Adv. Note

DATE RECEIVED:

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLED	IL CHEMISTRY SAMPLE	GEN. MICROBIOLOGY SAMPLE (GB)	BOB & COO	COMMENTS
SpEnness 1	DB 61	Y				
SpEnness 2	DB 62	Y				
SpEnness 3	DB 63	Y				
SpEnness 4	DB 64	Y				
SpEnness 5	DB 65	Y				
SpEnness 6	DB 66	Y				
SpEnness 7	DB 67	Y				
SpEnness 8	DB 68	Y				
SpEnness 9	DB 69	Y				
SpEnness 10	DB 70	Y				
SpEnness 11	DB 71	Y				
SpEnness 12	DB 72	Y				
SpEnness 13	DB 73	Y				
SpEnness 14	DB 74	Y				
SpEnness 15	DB 75	Y				
SpEnness 16	DB 76	Y				
SpEnness 17	DB 77	Y				
SpEnness 18	DB 78	Y				
SpEnness 19	DB 79	Y				
SpEnness 20	DB 80	Y				
SpEnness 21	DB 81	Y				
SpEnness 22	DB 82	Y				
SpEnness 23	DB 83	Y				
SpEnness 24	DB 84	Y				
SpEnness 25	DB 85	Y				
SpEnness 26	DB 86	Y				
SpEnness 27	DB 87	Y				
SpEnness 28	DB 88	Y				
SpEnness 29	DB 89	Y				
SpEnness 30	DB 90	Y				
TOTAL SAMPLES						

64 Days

Analysis Required : Domestic (General)

Service :

MB

Selected:

RECEIVED BY:

DELIVERED BY: *Enness*

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## DATE RECEIVED:

[illegible]

# YANKA LABORATORIES

PO BOX 100000, KENYA 00100, TEL: 011 523 5475 FAX: 011 523 5476

## SAMPLE CONDITION REPORT

CLIENT: GIBB GEN-UV MONTHLY DUST  
ATTENTION: Doreen, Anlon and Carl

EO

JOSNO WTB

Adv Note

DATE RECEIVED:

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLED	E. COLIFORM SAMPLE	SOIL MICROBIOLOGY SAMPLE	COB	SOIL & COB	COMMENTS
SpChvass 1	DB 1	11:20					
SpChvass 2	DB 2	11:14					
SpChvass 3	DB 3	10:18					
SpChvass 4	DB 4	11:14					
SpChvass 5	DB 5	11:48					
SpChvass 6	DB 6	11:51					
SpChvass 7	DB 7	11:54					
SpChvass 8	DB 8	11:58					
SpChvass 9	DB 9	15:04					
SpChvass 10	DB 10	15:13					
SpChvass 11	DB 11	13:14					
SpChvass 12	DB 12	16:10					
SpChvass 13	DB 13	16:52					
SpChvass 14	DB 14	11:04					
SpChvass 15	DB 15	15:53					
SpChvass 16	DB 16	15:47					
SpChvass 17	DB 17	16:41					
SpChvass 18	DB 18	11:31					
SpChvass 19	DB 19	14:16					
SpChvass 20	DB 20	16:21					
SpChvass 21	DB 21	11:20					
SpChvass 22	DB 22	16:15					
SpChvass 23	DB 23	16:16					
SpChvass 24	DB 24	14:04					
SpChvass 25	DB 25	10:01					
SpChvass 26	DB 26	11:54					
SpChvass 27	DB 27	12:54					
SpChvass 28	DB 28	12:47					
SpChvass 29	DB 29	13:44					
SpChvass 30	DB 30	18:40					
		TOTAL SAMPLES					

31 DAYS

Attested By: Doreen Higgins

Selected:

Seal:

MS

RECEIVED: Doreen Higgins 2018

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PAGE 1 OF 1

# YANKA LABORATORIES

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## SAMPLE CONDITION REPORT

CLIENT: Envoys GBN-JV MONTHLY DUST  
ATTENTION: Damon, Arden and Carl

90

JOHN WIG

Adv. Note

DATE RECEIVED:

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLED	ENCLOSURE SAMPLE	ENCLOSURE SAMPLE	ENCLOSURE SAMPLE	ENCLOSURE SAMPLE	COMMENTS
Spillways 1	DB 31	13:36					
Spillways 2	DB 32	13:37					
Spillways 3	DB 33	13:39					
Spillways 4	DB 34	13:44					
Spillways 5	DB 35	13:46					
Spillways 6	DB 36	13:47					
Spillways 7	DB 37	13:48					
Spillways 8	DB 38	13:49					
Spillways 9	DB 39	13:51					
Spillways 10	DB 40	13:54					
Spillways 11	DB 41	13:56					
Spillways 12	DB 42	13:57					
Spillways 13	DB 43	13:58					
Spillways 14	DB 44	14:01					
Spillways 15	DB 45	14:03					
Spillways 16	DB 46	14:05					
Spillways 17	DB 47	14:11					
Spillways 18	DB 48	14:23					
Spillways 19	DB 49	14:24					
Spillways 20	DB 50	14:57					
Spillways 21	DB 51	15:05					
Spillways 22	DB 52	15:13					
Spillways 23	DB 53	15:17					
Spillways 24	DB 54	15:14					
Spillways 25	DB 55	16:37					
Spillways 26	DB 56	16:36					
Spillways 27	DB 57	17:31					
Spillways 28	DB 58	18:14					
Spillways 29	DB 59	18:53					
Spillways 30	DB 60	18:46					
TOTAL SAMPLES							

31 DAYS

Analysis/Insured: Doreen, Garret

Savage

VB

Safety

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GIBB Bigen Nyeleti Joint Venture

Page 1 of 1

# YANKA LABORATORIES

FORM 1 - MICROBIOLOGICAL DATA SHEET FOR AIRBORNE DUST

## SAMPLE CONDITION REPORT

CLIENT: Envera GBN-JV MONTHLY DUST

EO

JOHN WISE

ATTENTION: Daniel, Aaron and Cal

Adv Note

DATE RECEIVED:

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLED	A. CEMENTIT SAMPLER	ISOVEL MICROSCOPY SAMPLER	DOO & CSD	COMMENTS
Spl. mass 1	DB 61	06:14.7				
Spl. mass 2	DB 62	06:15.8				
Spl. mass 3	DB 63	06:16.1				
Spl. mass 4	DB 64	07:07				
Spl. mass 5	DB 65	07:11				
Spl. mass 6	DB 66	07:19				
Spl. mass 7	DB 67	07:37				
Spl. mass 8	DB 68	08:04				
Spl. mass 9	DB 69	08:35				
Spl. mass 10	DB 70	08:40				
Spl. mass 11	DB 71	08:46				
Spl. mass 12	DB 72	08:49				
Spl. mass 13	DB 73	08:54				
Spl. mass 14	DB 74	09:01				
Spl. mass 15	DB 75	09:05				31
Spl. mass 16	DB 76	09:09				DAYS
Spl. mass 17	DB 77	10:11				
Spl. mass 18	DB 78	10:01				
Spl. mass 19	DB 79	11:19				
Spl. mass 20	DB 80	14:34				
Spl. mass 21	DB 81	16:29				
Spl. mass 22	DB 82	16:18				
Spl. mass 23	DB 83	16:17				
Spl. mass 24	DB 84	12:28				
Spl. mass 25	DB 85	12:12				
Spl. mass 26	DB 86	12:09				
Spl. mass 27	DB 87	09:14.1				
Spl. mass 28	DB 88	10:13				
Spl. mass 29	DB 89	09:13.0				
Spl. mass 30	DB 90	08:15				
TOTAL SAMPLES						

Analysis requested: Composite (Chemical)

Seepage:

MD

Reanalysis:

Waterproof:

Delivered by:

PAGE 1 OF 1

# YANKA LABORATORIES

1000 HERMANSDEN AVENUE, SUITE 100 TEL: 101 822 8881 FAX: 101 822 8882

## SAMPLE CONDITION REPORT

CLIENT: Envas GEN-JV MONTHLY DUST  
ATTENTION: Davies, Anson and Cad

EO:

JOHN OWEN

Adv Note

DATE RECEIVED:

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLED	ENVIRONMENTAL SAMPLE	WATER MICROBIOLOGY SAMPLE	DO & CO2	COMMENTS
SpEnvas 1	DB 91	08:14				31 DAY
SpEnvas 2	DB 92	08:11				
SpEnvas 3	DB 93	08:11				
SpEnvas 4	DB 94	08:105				
SpEnvas 5	DB 95	08:147				
SpEnvas 6	DB 96	10:55				
SpEnvas 7	DB 97	14:24				
SpEnvas 8	DB 98	14:01				
SpEnvas 9	DB 99	09:147				
SpEnvas 10	DB 100	08:137				
TOTAL SAMPLES:						

Analysis Performed: Comprehensive

Sample

ME

Signature:

RECEIVED:

# YANKA LABORATORIES

PHONE: 1 (800) 664-0000 FAX: 1 (800) 664-0001

## SAMPLE CONDITION REPORT

CLIENT: Enves GBN-JV MONTHLY DUST  
ATTENTION: Damon, Anton and Carl

EO:

JOBNO:W18/

Adv Note

DATE RECEIVED: 21/09/21

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLED	L CHEMISTRY SAMPLE	100mL MICROBIOLOGY SAMPLE	SOB	SOB & COB	COMMENTS
SpEnves 1	DB 1	08:45					} 28 Days
SpEnves 2	DB 2	08:47					
SpEnves 3	DB 3	14:10					
SpEnves 4	DB 4	14:03					
SpEnves 5	DB 5	16:00					
SpEnves 6	DB 6	15:35					
SpEnves 7	DB 7	13:55					
SpEnves 8	DB 8	13:47					
SpEnves 9	DB 9	10:19					
SpEnves 10	DB 10	10:16					
SpEnves 11	DB 11	09:49					
SpEnves 12	DB 12	08:10					
SpEnves 13	DB 13	06:28					
SpEnves 14	DB 14	05:22					
SpEnves 15	DB 15	13:20					
SpEnves 16	DB 16	13:16					
SpEnves 17	DB 17	13:09					
SpEnves 18	DB 18	12:33					
SpEnves 19	DB 19	11:27					
SpEnves 20	DB 20	12:24					
SpEnves 21	DB 21	12:24					
SpEnves 22	DB 22	12:19					
SpEnves 23	DB 23	12:16					
SpEnves 24	DB 24	12:09					
SpEnves 25	DB 25	12:09					
SpEnves 26	DB 26	12:07					
SpEnves 27	DB 27	11:59					
SpEnves 28	DB 28	11:54					
SpEnves 29	DB 29	11:51					
SpEnves 30	DB 30	11:47					
		TOTAL SAMPLES					

Analyte Required : Domestic General :

Seepage :

MB

Selected:

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01/11/2020 10:00 AM (GMT+08:00)

(PAGE 1 OF 1)

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CLIENT: Brown GEN-A MONTHLY DUST

JOHN WILSON

## Appendix 1

DATE RECEIVED: 2/09/21

28 Days

NE

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1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26



# YANKA LABORATORIES

PO BOX 118800 TORONTO, ONTARIO M6H 3B2 TEL: (416) 603-8881 FAX: (416) 603-8871

## SAMPLE CONDITION REPORT

CLIENT: Envase GBN-JV MONTHLY DUST  
ATTENTION: Damon, Anton and Carl

EQ:

JOHN WILM

Adv. Risk

DATE RECEIVED: 21/09/21

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLED	IL CHEMISTRY SAMPLE	500mL MICROBIOLOGY SAMPLE	500mL COD	COMMENTS
SpEnvas 1	DB 61	06:47				28 Days
SpEnvas 2	DB 62	06:49				
SpEnvas 3	DB 63	06:53				
SpEnvas 4	DB 64	06:58				
SpEnvas 5	DB 65	07:01				
SpEnvas 6	DB 66	07:05				
SpEnvas 7	DB 67	07:09				
SpEnvas 8	DB 68	07:12				
SpEnvas 9	DB 69	07:15				
SpEnvas 10	DB 70	07:18				
SpEnvas 11	DB 71	07:21				
SpEnvas 12	DB 72	07:26				
SpEnvas 13	DB 73	07:30				
SpEnvas 14	DB 74	07:33				
SpEnvas 15	DB 75	07:34				
SpEnvas 16	DB 76	07:37				
SpEnvas 17	DB 77	13:27				
SpEnvas 18	DB 78	13:24				
SpEnvas 19	DB 79	13:12				
SpEnvas 20	DB 80	13:14				
SpEnvas 21	DB 81	13:21				
SpEnvas 22	DB 82	13:50				
SpEnvas 23	DB 83	13:36				
SpEnvas 24	DB 84	13:16				
SpEnvas 25	DB 85	13:08				
SpEnvas 26	DB 86	13:36				
SpEnvas 27	DB 87	13:47				
SpEnvas 28	DB 88	10:24				
SpEnvas 29	DB 89	10:01				
SpEnvas 30	DB 90	08:54				
		TOTAL SAMPLES				

Analysis Required : Domestic / General :

Seepage :

MB

Selected:

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PAGE 1 OF 1

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MON-AQR-244-20\_21 Annual  
0.0  
April 2021 to March 2022

GIBB Bigen Nyeleti Joint Venture  
(GBN-JV)

Client Restricted  
Author: D Nell  
107

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CLIENT: Embassy GBF-JV MONTHLY DUST  
ATTENTION: Damon, Arlon and Dad

60

0000-0001-9000-0000

**Abstract**

DATE RECEIVED: 2/09/21

Analysis Required : Diagnostic : General :

1000

140

**Bibliography:**

**Abstract**

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0-8796-1000-0

# YANKA LABORATORIES

REPORT IS VALID FOR 12 MONTHS FROM DATE OF TEST. OUTSIDE SAMPLES ARE VALID FOR 12 MONTHS.

## SAMPLE CONDITION REPORT

CLIENT: Enness GBN-JV MONTHLY DUST

EO:

JOBNO: W101

ATTENTION: Damon, Aston and Carl

Adv. Note

DATE RECEIVED:

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLED	IL CHEMISTRY SAMPLE	SOIL MICROBIOLOGY SAMPLE	MOQ & COO	COMMENTS
SpEnness 1	DB 1	N/S				N/S
SpEnness 2	DB 2	12 - Oct				
SpEnness 3	DB 3	12 - Oct				
SpEnness 4	DB 4	12 - Oct				
SpEnness 5	DB 5	12 - Oct				
SpEnness 6	DB 6	12 - Oct				
SpEnness 7	DB 7	12 - Oct				
SpEnness 8	DB 8	12 - Oct				
SpEnness 9	DB 9	13 - Oct				
SpEnness 10	DB 10	13 - Oct				
SpEnness 11	DB 11	13 - Oct				
SpEnness 12	DB 12	12 - Oct				
SpEnness 13	DB 13	11 - Oct				
SpEnness 14	DB 14	12 - Oct				
SpEnness 15	DB 15	12 - Oct				27 DAYS
SpEnness 16	DB 16					
SpEnness 17	DB 17					
SpEnness 18	DB 18					
SpEnness 19	DB 19					
SpEnness 20	DB 20					
SpEnness 21	DB 21					
SpEnness 22	DB 22					
SpEnness 23	DB 23					
SpEnness 24	DB 24					
SpEnness 25	DB 25					
SpEnness 26	DB 26					
SpEnness 27	DB 27					
SpEnness 28	DB 28					
SpEnness 29	DB 29					
SpEnness 30	DB 30					
		TOTAL SAMPLES				

Analysis Required : Domestic - General -

Storage :

MB

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**STUDY DESIGN:**

# YANKA LABORATORIES

PO BOX 1188000 BARNESIDE DRIVE 100 TEL: 08 845 940 FAX: 08 845 941

## SAMPLE CONDITION REPORT

CLIENT: Envas GBN-JV MONTHLY DUST

TO:

JOSHO/W16/

ATTENTION: Damon, Arlon and Carl

Adv Note

DATE RECEIVED:

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLED	IL CHEMISTRY SAMPLE	SOIL MICROBIOLOGY SAMPLE	SOIL	ROD & DOG	COMMENTS
SpEnvas 1	DB 61	12 Oct					Sicken
SpEnvas 2	DB 62						
SpEnvas 3	DB 63						
SpEnvas 4	DB 64						
SpEnvas 5	DB 65						
SpEnvas 6	DB 66						
SpEnvas 7	DB 67						
SpEnvas 8	DB 68	12 - October					
SpEnvas 9	DB 69	NO					
SpEnvas 10	DB 70						
SpEnvas 11	DB 71						27 DAYS
SpEnvas 12	DB 72						
SpEnvas 13	DB 73						
SpEnvas 14	DB 74						
SpEnvas 15	DB 75						
SpEnvas 16	DB 76	NO (sample with)					
SpEnvas 17	DB 77						
SpEnvas 18	DB 78						
SpEnvas 19	DB 79						
SpEnvas 20	DB 80						
SpEnvas 21	DB 81						
SpEnvas 22	DB 82	11 - October					
SpEnvas 23	DB 83						
SpEnvas 24	DB 84						
SpEnvas 25	DB 85						
SpEnvas 26	DB 86						
SpEnvas 27	DB 87						
SpEnvas 28	DB 88						
SpEnvas 29	DB 89						
SpEnvas 30	DB 90						
		TOTAL SAMPLES					

Analysis Required: Domestic General:

Coverage:

MB

Selected:

*[Signature]*

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10/1/2021 10:00 AM (GMT+12:00)

PAGE 1 OF 1

FIGURE 1. CONCENTRATIONS OF CHLORIDE AND SULFATE IONS IN THE SUBSTRATE AND THE GEL

CLIENT: CROWN LIFTING MACHINERY COUST



JOHNSON &amp;

**ATTENTION:** Damon, Arion and Carl

#### DATE RECEIVED:

Analysis Required: Complete (General) -

**Keywords:**

49

## References

### References

## CONCLUSIONS

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**Keywords:** child sexual abuse; disclosure; social support

# YANKA LABORATORIES

P O BOX 11086 AERORANDIMMIDDELBURG 1088 TEL: 015 882 8448 FAX: 086 8811 071

## SAMPLE CONDITION REPORT

CLIENT: Environmental Assurance - GBN - JV Dust's

E0 :

JOB NO: V020/

ATTENTION:

Adv Note

DATE RECEIVED: 1/11/21

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLED	1L CHEMISTRY SAMPLE	500mL MICROBIOLOGY SAMPLE	S.O.G	BOD & COD	COMMENTS
SpGBNJV 1	DB-1	17:42					
SpGBNJV 2	DB-1	17:45					
SpGBNJV 3	DB-1	8:28					
SpGBNJV 4	DB-4	6:42					
SpGBNJV 5	DB-5	6:45					
SpGBNJV 6	DB-6	6:50					
SpGBNJV 7	DB-7	6:55					
SpGBNJV 8	DB-8	7:47					
SpGBNJV 9	DB-9	8:05					
SpGBNJV 10	DB-10	8:10					
SpGBNJV 11	DB-11	7:19					
SpGBNJV 12	DB-12	16:51					
SpGBNJV 13	DB-13	7:15					
SpGBNJV 14	DB-14	17:00					
SpGBNJV 15	DB-15	No Sample					
SpGBNJV 16	DB-16	No Sample					
SpGBNJV 17	DB-17	No Sample					
SpGBNJV 18	DB-18	16:32					
SpGBNJV 19	DB-19	16:27					
SpGBNJV 20	DB-20	16:23					
SpGBNJV 21	DB-21	16:20					
SpGBNJV 22	DB-22	16:17					
SpGBNJV 23	DB-23	16:13					
SpGBNJV 24	DB-24	16:11					
SpGBNJV 25	DB-25	16:09					
SpGBNJV 26	DB-26	16:05					
SpGBNJV 27	DB-27	16:00					
SpGBNJV 28	DB-28	15:56					
TOTAL SAMPLES							

2 x 1L Samples

Analysis Required: Domestic:

General:

Residue:

MB

Selected:

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YANKA LABORATORIES

BLANKET 4/10/17

Document No:  
Revision:  
Date:

MON-AQR-244-20\_21 Annual  
0.0  
April 2021 to March 2022

GIBB Bigen Nyeleti Joint Venture  
(GBN-JV)

Client Restricted  
Author: D Nell  
113

# YANKA LABORATORIES

P.O. BOX 11308 APOORANG MIDDLBURG 1005 TEL: 012 863 0448 FAX: 086 5211 071

## SAMPLE CONDITION REPORT

CLIENT: Environmental Assurance - GBN - JV Duaha

ES :

JOB NO: W20/

ATTENTION:

Adv Note

DATE RECEIVED: 11/11/21

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLED	1L CHEMISTRY SAMPLE	100ml MICROBIOLOGY SAMPLE	S.O.D	BOD & COD	COMMENTS
SpGBNJV 29	DB-29	15:53					
SpGBNJV 30	DB-30	15:49					
SpGBNJV 31	DB-31	15:46					
SpGBNJV 32	DB-32	15:41					
SpGBNJV 33	DB-33	15:39					
SpGBNJV 34	DB-34	15:36					
SpGBNJV 35	DB-35	15:34					
SpGBNJV 36	DB-36	15:31					
SpGBNJV 37	DB-37	15:29					
SpGBNJV 38	DB-38	15:24					
SpGBNJV 39	DB-39	15:20					
SpGBNJV 40	DB-40	15:18					
SpGBNJV 41	DB-41	15:16					
SpGBNJV 42	DB-42	15:14					
SpGBNJV 43	DB-43	15:10					
SpGBNJV 44	DB-44	15:05					
SpGBNJV 45	DB-45	15:01					
SpGBNJV 46	DB-46	14:57					
SpGBNJV 47	DB-47	14:53					
SpGBNJV 48	DB-48	14:49					
SpGBNJV 49	DB-49	14:45					
SpGBNJV 50	DB-50	14:40					
SpGBNJV 51	DB-51	14:31					
SpGBNJV 52	DB-52	14:28					
SpGBNJV 53	DB-53	14:17					
SpGBNJV 54	DB-54	14:13					
SpGBNJV 55	DB-55						
SpGBNJV 56	DB-56						
TOTAL SAMPLES							

2 x 1L Samples

Analysis Required: Domestic:

General:

Sewage:

MB

Selected:

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GIBB Bigen Nyeleti Joint Venture  
(GBN-JV)

Client Restricted  
Author: D Nell

114



# YANKA LABORATORIES

P.O. BOX 11386 APTORARD MOBILE AL 36688-1386 TEL: 904.682.3448 FAX: 904.681.9171

## SAMPLE CONDITION REPORT

CLIENT: Environmental Assurance - GBN - JV Duff's

EO :

JOB NO: W207

ATTENTION:

Adv. Note

DATE RECEIVED: 11/11/21

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLED	1L CHEMISTRY SAMPLE	SECTL MICROBIOLOGY SAMPLE	S.O.G	BOB & COB	COMMENTS
SpGBNJV 67	DB - 67	14:09					
SpGBNJV 68	DB - 68	14:05					
SpGBNJV 69	DB - 69	17:48					
SpGBNJV 69	DB - 69	17:50					
SpGBNJV 61	DB - 61	17:56					
SpGBNJV 62	DB - 62	17:57					
SpGBNJV 63	DB - 63	18:00					
SpGBNJV 64	DB - 64	18:02					
SpGBNJV 65	DB - 65	18:04					
SpGBNJV 66	DB - 66	18:06					
SpGBNJV 67	DB - 67	18:08					
SpGBNJV 68	DB - 68	18:10					
SpGBNJV 69	DB - 69	18:12					
SpGBNJV 70	DB - 70	18:14					
SpGBNJV 71	DB - 71	18:16					
SpGBNJV 72	DB - 72	18:19					
SpGBNJV 73	DB - 73	18:22					
SpGBNJV 74	DB - 74	18:24					
SpGBNJV 75	DB - 75	18:26					
SpGBNJV 76	DB - 76	18:30					
SpGBNJV 77	DB - 77	13:18					
SpGBNJV 78	DB - 78	13:08					
SpGBNJV 79	DB - 79	12:14					
SpGBNJV 80	DB - 80	12:17					
SpGBNJV 81	DB - 81	12:21					
SpGBNJV 82	DB - 82	12:30					
SpGBNJV 83	DB - 83	12:35					
SpGBNJV 84	DB - 84	No Sample					
TOTAL SAMPLES							

2 x 1L Samples

Analysis Required: Domestic :

General :

Sewage :

MB

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Client Restricted  
Author: D Nell

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## P-O BOX 111506 AUSTIN, TX 78711-1506 TEL: 512 593 8448 FAX: 512 593 8171

CLIENT: Environmental Assurance - GBR - JV Duff's

[illegible]

JOB NO: 71534

### ATTENTION

### Activity Monitor

DATE RECEIVED:

11/11/21

### 2.1.1.1. Sampling

**Analysis Required : Domestic :**

**General:**

**Journal of Management Education** 36(7)p. 809-824

MA

**Keywords:** *Self-esteem, self-esteem threat, self-esteem threat sensitivity, self-esteem threat sensitivity scale, self-esteem threat sensitivity scale-2*

1000

TEL: 0086-21-63410598

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PO BOX 11388 HERMANUS DOORLEBURG 7055 TEL: 013-582 8448 FAX: 088 5611 071

## SAMPLE CONDITION REPORT

CLIENT: Environmental Assurance - GBN - JV Dusts

EO :

JOB NO: W259

ATTENTION:

Adv/Note

DATE RECEIVED: 10/12/21

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLED	1L CHEMISTRY SAMPLE	500mL MICROBIOLOGY SAMPLE	S.O.G	BOB & COB	COMMENTS
SpGBM/V 1	DB-1	9/12/21 08:31					30 DAYS
SpGBM/V 2	DB-2	9/12/21 08:25					
SpGBM/V 3	DB-3	9/12/21 08:01					
SpGBM/V 4	DB-4						
SpGBM/V 5	DB-5						
SpGBM/V 6	DB-6						
SpGBM/V 7	DB-7						
SpGBM/V 8	DB-8						
SpGBM/V 9	DB-9						
SpGBM/V 10	DB-10						
SpGBM/V 11	DB-11						364 Days
SpGBM/V 12	DB-12	8/12/21					
SpGBM/V 13	DB-13						
SpGBM/V 14	DB-14						
SpGBM/V 15	DB-15	9/12/21					
SpGBM/V 16	DB-16						
SpGBM/V 17	DB-17						
SpGBM/V 18	DB-18						
SpGBM/V 19	DB-19						
SpGBM/V 20	DB-20						
SpGBM/V 21	DB-21						30 DAYS
SpGBM/V 22	DB-22						
SpGBM/V 23	DB-23						
SpGBM/V 24	DB-24						
SpGBM/V 25	DB-25						
SpGBM/V 26	DB-26						
SpGBM/V 27	DB-27						
SpGBM/V 28	DB-28						
TOTAL SAMPLES							

2 x 1L Samples

Analysis Required: Domestic: General: Sewage: MB

Selected:

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Client Restricted  
Author: D Nell

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# YANKA LABORATORIES

P.O. BOX 11286 AEROPARK MIDDLEBURG 1286 TEL: 703 692 9408 FAX: 703 691 1071

## SAMPLE CONDITION REPORT

CLIENT: Environmental Assurance - GBN - JV Dual's

ED :

JOB NO: W201

ATTENTION:

Act's Note

DATE RECEIVED: 11/12/21

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLED	1L CHEMISTRY SAMPLE	500mL MICROBIOLOGY SAMPLE	S.O.G	BOO & COO	COMMENTS
SpGBN/V 29	DB - 29	9/12/21					30 DAYS
SpGBN/V 30	DB - 30	11					
SpGBN/V 31	DB - 31	11					
SpGBN/V 32	DB - 32	11					
SpGBN/V 33	DB - 33	11					
SpGBN/V 34	DB - 34	11					
SpGBN/V 35	DB - 35	11					
SpGBN/V 36	DB - 36	11					
SpGBN/V 37	DB - 37	11					
SpGBN/V 38	DB - 38	11					
SpGBN/V 39	DB - 39	11					
SpGBN/V 40	DB - 40	11					
SpGBN/V 41	DB - 41	11					
SpGBN/V 42	DB - 42	11					
SpGBN/V 43	DB - 43	11					
SpGBN/V 44	DB - 44	11					
SpGBN/V 45	DB - 45	11					
SpGBN/V 46	DB - 46	11					
SpGBN/V 47	DB - 47	11					
SpGBN/V 48	DB - 48	11					
SpGBN/V 49	DB - 49	11					
SpGBN/V 50	DB - 50	11					
SpGBN/V 51	DB - 51	11					
SpGBN/V 52	DB - 52	11					
SpGBN/V 53	DB - 53	11					
SpGBN/V 54	DB - 54	11					
SpGBN/V 55	DB - 55	11					
SpGBN/V 56	DB - 56	11					
		TOTAL SAMPLES					

2 x 1L Samples

Analysis Required: Domestic: General: Sewage: MB

Selected:

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Client Restricted  
Author: D Nell  
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# YANKA LABORATORIES

PO BOX 11388 AERORAND MODELSBURG 1066 TEL: 013 822 9448 FAX: 085 9511 071

## SAMPLE CONDITION REPORT

CLIENT: Environmental Assurance - GBN - JV Dust's

ED :

JOB NO: W20/

ATTENTION:

Adv. Note

DATE RECEIVED: 10/12/21

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLED	1L CHEMISTRY SAMPLE	100mL MICROBIOLOGY SAMPLE	S.O.G	BOD & COD	COMMENTS
SpGBNJV 07	DB - 07	9/12/21					30 DAYS
SpGBNJV 08	DB - 08	11					
SpGBNJV 09	DB - 09	11					
SpGBNJV 10	DB - 10	11					
SpGBNJV 11	DB - 11	11					
SpGBNJV 12	DB - 12	11					
SpGBNJV 13	DB - 13	11					
SpGBNJV 14	DB - 14	11					
SpGBNJV 15	DB - 15	11					
SpGBNJV 16	DB - 16	11					
SpGBNJV 17	DB - 17	11					
SpGBNJV 18	DB - 18	11					
SpGBNJV 19	DB - 19	11					
SpGBNJV 20	DB - 20	11					
SpGBNJV 21	DB - 21	11					
SpGBNJV 22	DB - 22	11					
SpGBNJV 23	DB - 23	11					
SpGBNJV 24	DB - 24	11					
SpGBNJV 25	DB - 25	11					
SpGBNJV 26	DB - 26	11					
SpGBNJV 27	DB - 27	11					
SpGBNJV 28	DB - 28	11					
SpGBNJV 29	DB - 29	11					
SpGBNJV 30	DB - 30	11					
SpGBNJV 31	DB - 31	11					
SpGBNJV 32	DB - 32	11					
SpGBNJV 33	DB - 33	11					
SpGBNJV 34	DB - 34	11				64 Days	
		TOTAL SAMPLES					

2 x 1L Samples

Analysis Required: Domestic:

General:

Sewage:

MB

Selected:

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(GBN-JV)

Client Restricted  
Author: D Nell

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## P.O. BOX 11098 AERORAND MIDDELBURG 1055 TEL: 010 695 9448 FAX: 099 5011 071

CLIENT: Environmental Assurance - GEN - JH Duthie

**JOB NO: W200**



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### 2.4.11. Samples

### Background

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CLIENT: Brown ON-HY MONTHLY DUST  
ATTENTION: Damon, Arion and Carl



**Journal of Management Inquiry**

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Arredatori: Barabesi: Domestici: Cleland:

• **Prevalence** : 10%



### Discussion

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PO BOX 103468 TORONTO, ONTARIO M5C 1H4 TEL: (416) 593-8841 FAX: (416) 593-8842

## SAMPLE CONDITION REPORT

CLIENT: Envest GBN-JV MONTHLY DUST

ED:

JOEHO-W101

ATTENTION: Damon, Aaron and Carl

Adv Note

DATE RECEIVED: 20/1/22

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLED	IL CHEMISTRY SAMPLE	MSL MICROBIOLOGY SAMPLE	SOB	MOO & COO	COMMENTS
SpEnvest 1	DB 31	19-01-2022					
SpEnvest 2	DB 32	19					
SpEnvest 3	DB 33	19					
SpEnvest 4	DB 34	19					
SpEnvest 5	DB 35	19					
SpEnvest 6	DB 36	19					
SpEnvest 7	DB 37	X					
SpEnvest 8	DB 38	19					
SpEnvest 9	DB 39	19					
SpEnvest 10	DB 40	19					
SpEnvest 11	DB 41	19					
SpEnvest 12	DB 42	19					
SpEnvest 13	DB 43	19					
SpEnvest 14	DB 44	19					
SpEnvest 15	DB 45	19					
SpEnvest 16	DB 46	19					
SpEnvest 17	DB 47	19					
SpEnvest 18	DB 48	19					
SpEnvest 19	DB 49	19					
SpEnvest 20	DB 50	19					
SpEnvest 21	DB 51	19					
SpEnvest 22	DB 52	X					
SpEnvest 23	DB 53	19					
SpEnvest 24	DB 54	19					
SpEnvest 25	DB 55	19					
SpEnvest 26	DB 56	19					
SpEnvest 27	DB 57	19					
SpEnvest 28	DB 58	17-01-2022					
SpEnvest 29	DB 59	17					
SpEnvest 30	DB 60	17					
TOTAL SAMPLES							

Analysis Required : Domestic : General :

Storage :

MB

Selected:

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## SAMPLE CONDITION REPORT

CLIENT: Envasa GBN-JV MONTHLY DUST

ED:

JOB NO: 11167

ATTENTION: Damion, Anton and Carl

Asst. Note

DATE RECEIVED: 16/02/2022

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLED	IL CHEMISTRY SAMPLE	MOBIL MICROBIOLOGY SAMPLE	ISO	BOB & COO	COMMENTS
SpEnvasa 1	DB 1	15/2/2022					28 DAYS
SpEnvasa 2	DB 2						
SpEnvasa 3	DB 3						
SpEnvasa 4	DB 4						
SpEnvasa 5	DB 5						
SpEnvasa 6	DB 6						
SpEnvasa 7	DB 7						
SpEnvasa 8	DB 8						
SpEnvasa 9	DB 9						
SpEnvasa 10	DB 10						
SpEnvasa 11	DB 11	NO (Seals)					
SpEnvasa 12	DB 12						
SpEnvasa 13	DB 13						
SpEnvasa 14	DB 14						
SpEnvasa 15	DB 15						
SpEnvasa 16	DB 16						
SpEnvasa 17	DB 17						
SpEnvasa 18	DB 18						
SpEnvasa 19	DB 19						
SpEnvasa 20	DB 20						
SpEnvasa 21	DB 21	15/2/2022					
SpEnvasa 22	DB 22						
SpEnvasa 23	DB 23						
SpEnvasa 24	DB 24						
SpEnvasa 25	DB 25						
SpEnvasa 26	DB 26						
SpEnvasa 27	DB 27						
SpEnvasa 28	DB 28						
SpEnvasa 29	DB 29						
SpEnvasa 30	DB 30						
		TOTAL SAMPLES					

Analysis Required : Domestic : General :

Seavage :

MB

Selective:

ROCKWELL (H)

DELAVILLE (H)

1.7" round (3 round) Condition, etc. (Master 1)

PAGE 1 OF 1

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## SAMPLE CONDITION REPORT

CLIENT: Envas GBN-JV MONTHLY DUST

EO:

JOBNO-WH

ATTENTION: Carson, Anson and Carl

Adv. Note

DATE RECEIVED:

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLED	IL CHEMISTRY SAMPLE	500mL MICROBIOLOGY SAMPLE	BOB & COB	COMMENTS
SpEnvas 1	DB 31	15/1/2022				
SpEnvas 2	DB 32					
SpEnvas 3	DB 33					
SpEnvas 4	DB 34					
SpEnvas 5	DB 35					
SpEnvas 6	DB 36	NO (Specimen)				
SpEnvas 7	DB 37					
SpEnvas 8	DB 38					
SpEnvas 9	DB 39	15/1/2022				
SpEnvas 10	DB 40					
SpEnvas 11	DB 41					
SpEnvas 12	DB 42					
SpEnvas 13	DB 43					
SpEnvas 14	DB 44	16/2/2022				28 DAYS
SpEnvas 15	DB 45					
SpEnvas 16	DB 46					
SpEnvas 17	DB 47					
SpEnvas 18	DB 48					
SpEnvas 19	DB 49	NO (Specimen)				
SpEnvas 20	DB 50					
SpEnvas 21	DB 51					
SpEnvas 22	DB 52	16/2/2022				
SpEnvas 23	DB 53					
SpEnvas 24	DB 54					
SpEnvas 25	DB 55					
SpEnvas 26	DB 56					
SpEnvas 27	DB 57					
SpEnvas 28	DB 58					
SpEnvas 29	DB 59					
SpEnvas 30	DB 60					
		TOTAL SAMPLES				

Analysis Required : Domestic (General) :

Seepage :

ME

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# YANKA LABORATORIES

PO BOX 100000 (DORSET) TAS 7018 TEL: 08 9420 1000 FAX: 08 9420 1001

## SAMPLE CONDITION REPORT

CLIENT: Gwass GBN JV MONTHLY DUST

EO:

JOBNOW18

ATTENTION: Darren, Anton and Carl

Adv Note

DATE RECEIVED:

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLED	IL CHEMISTRY SAMPLE	SO4/L MICROBIOLOGY SAMPLE	DO5	MOO & COO	COMMENTS
SpEnvass 1	DB 61	14/2/2022					28 DAYS
SpEnvass 2	DB 62						
SpEnvass 3	DB 63						
SpEnvass 4	DB 64						
SpEnvass 5	DB 65						
SpEnvass 6	DB 66						
SpEnvass 7	DB 67						
SpEnvass 8	DB 68						
SpEnvass 9	DB 69						
SpEnvass 10	DB 70						
SpEnvass 11	DB 71						
SpEnvass 12	DB 72						
SpEnvass 13	DB 73						
SpEnvass 14	DB 74						
SpEnvass 15	DB 75						
SpEnvass 16	DB 76						
SpEnvass 17	DB 77						
SpEnvass 18	DB 78						
SpEnvass 19	DB 79						
SpEnvass 20	DB 80						
SpEnvass 21	DB 81						
SpEnvass 22	DB 82						
SpEnvass 23	DB 83						
SpEnvass 24	DB 84	No Access					
SpEnvass 25	DB 85	No Access					
SpEnvass 26	DB 86	14/2/2022					
SpEnvass 27	DB 87						
SpEnvass 28	DB 88						
SpEnvass 29	DB 89						
SpEnvass 30	DB 90						
TOTAL SAMPLES							

Analysis Required : Domestic : General :

Sample :

MB

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13/2/2022 10:00 AM (DORSET) TAS 7018

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CLIENT: Energy CORP. MONTHLY DUES

[illegible]

**ATTENTION: Bottom, Left, and End**

1000

DATE RECEIVED:

Analysis Required : Domestic : General :

**Casey, Thomas**



## Background

1000

DOI: 10.1002/for

**Abstract**

[illegible]

# YANKA LABORATORIES

YANKA LABORATORIES (PVT) LTD TEL: 011 802 0442 FAX: 011 802 0443

## SAMPLE CONDITION REPORT

CLIENT: Envasa GBN-JV MONTHLY DUST  
ATTENTION: Damon, Anton and Carl

EO:

JOBNO:W18/

Adv Note

DATE RECEIVED: 17/3/22

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLED	IL CHEMISTRY SAMPLE	MICROBIOLOGY SAMPLE	BOO & COO	COMMENTS
SpEnvass 1	DB 1					
SpEnvass 2	DB 2					
SpEnvass 3	DB 3					
SpEnvass 4	DB 4					
SpEnvass 5	DB 5					
SpEnvass 6	DB 6					
SpEnvass 7	DB 7	16-3-22				
SpEnvass 8	DB 8					
SpEnvass 9	DB 9					
SpEnvass 10	DB 10					
SpEnvass 11	DB 11					
SpEnvass 12	DB 12					
SpEnvass 13	DB 13	15-3-2022				
SpEnvass 14	DB 14	16-3-2022				30 DAYS
SpEnvass 15	DB 15	16-3-22				
SpEnvass 16	DB 16	16-3-22				
SpEnvass 17	DB 17	STOLEN				
SpEnvass 18	DB 18					
SpEnvass 19	DB 19					
SpEnvass 20	DB 20					
SpEnvass 21	DB 21	16-3-22				
SpEnvass 22	DB 22					
SpEnvass 23	DB 23					
SpEnvass 24	DB 24					
SpEnvass 25	DB 25					
SpEnvass 26	DB 26					
SpEnvass 27	DB 27					
SpEnvass 28	DB 28					
SpEnvass 29	DB 29					
SpEnvass 30	DB 30					
		TOTAL SAMPLES				

Analysis Required : Domestic :General :

Sevage :

MB

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PO BOX 107000 DORSET VICTORIA 8150 TEL: 03 830 844 FAX 0800 691 871

## SAMPLE CONDITION REPORT

CLIENT: Envias GBN-JV MONTHLY DUST

EQ:

JOBNO:W18/

Adv:None

ATTENTION: Damon, Arlon and Carl

DATE RECEIVED: 17/3/22

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLED	IL CHEMISTRY SAMPLE	900mL MICROBIOLOGY SAMPLE	SEE	BOD & COD	COMMENTS
SpEnvias 1	DB 61						
SpEnvias 2	DB 62						
SpEnvias 3	DB 63						
SpEnvias 4	DB 64						
SpEnvias 5	DB 65						
SpEnvias 6	DB 66						
SpEnvias 7	DB 67						
SpEnvias 8	DB 68						
SpEnvias 9	DB 69						
SpEnvias 10	DB 70						
SpEnvias 11	DB 71	15-3-2022					
SpEnvias 12	DB 72						
SpEnvias 13	DB 73						
SpEnvias 14	DB 74						
SpEnvias 15	DB 75	STOLEN					
SpEnvias 16	DB 76						30 DAYS
SpEnvias 17	DB 77						
SpEnvias 18	DB 78						
SpEnvias 19	DB 79						
SpEnvias 20	DB 80						
SpEnvias 21	DB 81						
SpEnvias 22	DB 82						
SpEnvias 23	DB 83						
SpEnvias 24	DB 84	NO ACCESS					
SpEnvias 25	DB 85	NO ACCESS					
SpEnvias 26	DB 86						
SpEnvias 27	DB 87						
SpEnvias 28	DB 88						
SpEnvias 29	DB 89						
SpEnvias 30	DB 90						
		TOTAL SAMPLES					

Analysis Required : Domestic :General :

Sewage :

MB

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131


Foto: G. Vignati/Contrasto

17/3/22

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## APPENDIX B – MONITORING LOCALITY SUMMARY TABLE

### Air Quality Monitoring Localities:

DB 01	
<p>Location: 23°40'41.16"S; 27°36'4.24"E</p> <p>Farm: Grootestryd 465 LQ Portion 5</p> <p>Description: Near Matimba Power Station</p>	
March 2021	Date Installed: 31 <sup>st</sup> March 2021
April 2021	<p>Date Sampled: 5<sup>th</sup> May 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
May 2021	<p>Date Sampled: 2<sup>nd</sup> June 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
June 2021	<p>Date Sampled: 20<sup>th</sup> July 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
July 2021	<p>Date Sampled: 19<sup>th</sup> August 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>

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DB 01	
August 2021	Date Sampled: 16 <sup>th</sup> September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: <b>Not Sampled – Tampered</b> Air Quality Class: NA
October 2021	Date Sampled: 9 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 <sup>th</sup> January 2022 Sample Status: <b>Not Sampled – Stolen</b> Air Quality Class: NA
January 2022	Date Sampled: 15 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 14 <sup>th</sup> April 2022

DB 01	
	<p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>

DB 02	
<p>Location: 23°40'52.25"S; 27°36'2.03"E</p> <p>Farm: Grootestryd 465 LQ Portion 5</p> <p>Description: Near Matimba Power Station</p>	
March 2021	Date Installed: 31 <sup>st</sup> March 2021
April 2021	<p>Date Sampled: 5<sup>th</sup> May 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
May 2021	<p>Date Sampled: 2<sup>nd</sup> June 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
June 2021	<p>Date Sampled: 20<sup>th</sup> July 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
July 2021	<p>Date Sampled: 19<sup>th</sup> August 2021</p> <p>Sample Status: Sampled</p>

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DB 02	
	Air Quality Class: Ideal
August 2021	Date Sampled: 16 <sup>th</sup> September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 9 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Exceeded Residential Limit
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Exceeded Residential Limit
February 2022	Date Sampled: 16 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 02	
March 2022	Date Sampled: 14 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 03	
Location: 23°41'37.30"S; 27°33'44.10"E Farm: Turfvlakte 463 LQ Description: Next to D1675	
March 2021	Date Installed: 31 <sup>st</sup> March 2021
April 2021	Date Sampled: 5 <sup>th</sup> May 2021 Sample Status: Sampled Air Quality Class: Ideal
May 2021	Date Sampled: 2 <sup>nd</sup> June 2021 Sample Status: Sampled Air Quality Class: Ideal
June 2021	Date Sampled: 20 <sup>th</sup> July 2021 Sample Status: Sampled Air Quality Class: Ideal
July 2021	Date Sampled: 19 <sup>th</sup> August 2021

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DB 03	
	<p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
August 2021	<p>Date Sampled: 15<sup>th</sup> September 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
September 2021	<p>Date Sampled: 12<sup>th</sup> October 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
October 2021	<p>Date Sampled: 10<sup>th</sup> November 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Exceeded Residential Limit</p>
November 2021	<p>Date Sampled: 9<sup>th</sup> December 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
December 2021	<p>Date Sampled: 19<sup>th</sup> January 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
January 2022	<p>Date Sampled: 15<sup>th</sup> February 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
February 2022	<p>Date Sampled: 16<sup>th</sup> March 2022</p> <p>Sample Status: Sampled</p>



DB 03	
	Air Quality Class: Ideal
March 2022	Date Sampled: 14 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 04	
Location: 23°41'57.80"S; 27°32'48.26"E Farm: Hierontrent 460 LQ Description: Next to D1675	
March 2021	Date Installed: 31 <sup>st</sup> March 2021
April 2021	Date Sampled: 5 <sup>th</sup> May 2021 Sample Status: Sampled Air Quality Class: Ideal
May 2021	Date Sampled: 2 <sup>nd</sup> June 2021 Sample Status: Sampled Air Quality Class: Ideal
June 2021	Date Sampled: 20 <sup>th</sup> July 2021 Sample Status: Not Sampled – Bucket Stolen
July 2021	Date Sampled: 19 <sup>th</sup> August 2021

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DB 04	
	<p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
August 2021	<p>Date Sampled: 15<sup>th</sup> September 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Exceeded both the Residential limit and the Industrial Limit</p>
September 2021	<p>Date Sampled: 12<sup>th</sup> October 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
October 2021	<p>Date Sampled: 10<sup>th</sup> November 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Exceeded Residential Limit</p>
November 2021	<p>Date Sampled: 9<sup>th</sup> December 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
December 2021	<p>Date Sampled: 19<sup>th</sup> January 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
January 2022	<p>Date Sampled: 15<sup>th</sup> February 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
February 2022	<p>Date Sampled: 16<sup>th</sup> March 2022</p> <p>Sample Status: Sampled</p>

DB 04	
	Air Quality Class: Ideal
March 2022	Date Sampled: 14 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 05	
Location: 23°42'13.03"S, 27°31'52.68"E Farm: Eenzaamheid 687 LQ Description: Next D1675	
March 2021	Date Installed: 31 <sup>st</sup> March 2021
April 2021	Date Sampled: 5 <sup>th</sup> May 2021 Sample Status: Sampled Air Quality Class: Ideal
May 2021	Date Sampled: 2 <sup>nd</sup> June 2021 Sample Status: Sampled Air Quality Class: Ideal
June 2021	Date Sampled: 20 <sup>th</sup> July 2021 Sample Status: Sampled Air Quality Class: Ideal

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DB 05	
July 2021	Date Sampled: 19 <sup>th</sup> August 2021 Sample Status: Sampled Air Quality Class: Ideal
August 2021	Date Sampled: 15 <sup>th</sup> September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Exceeded the Residential Limit
February 2022	Date Sampled: 16 <sup>th</sup> March 2022

DB 05	
	<p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
March 2022	<p>Date Sampled: 14<sup>th</sup> April 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>

DB 06	
<p>Location: 23°42'29.97"S, 27°30'32.64"E</p> <p>Farm: Eenzaamheid 687 LQ</p> <p>Description: Next to D1675</p>	
March 2021	Date Installed: 31 <sup>st</sup> March 2021
April 2021	<p>Date Sampled: 5<sup>th</sup> May 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
May 2021	<p>Date Sampled: 2<sup>nd</sup> June 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
June 2021	<p>Date Sampled: 20<sup>th</sup> July 2021</p> <p>Sample Status: Sampled</p>

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DB 06	
	Air Quality Class: Ideal
July 2021	Date Sampled: 19 <sup>th</sup> August 2021 Sample Status: Sampled Air Quality Class: Ideal
August 2021	Date Sampled: 15 <sup>th</sup> September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 06	
February 2022	Date Sampled: 16 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 14 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 07	
Location: 23°42'32.26"S, 27°29'48.38"E Farm: Eenzaamheid 687 LQ Description: Next to D1675	
March 2021	Date Installed: 31 <sup>st</sup> March 2021
April 2021	Date Sampled: 5 <sup>th</sup> May 2021 Sample Status: Sampled Air Quality Class: Ideal
May 2021	Date Sampled: 2 <sup>nd</sup> June 2021 Sample Status: Sampled Air Quality Class: Ideal
June 2021	Date Sampled: 20 <sup>th</sup> July 2021

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DB 07	
	<p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
July 2021	<p>Date Sampled: 19<sup>th</sup> August 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
August 2021	<p>Date Sampled: 15<sup>th</sup> September 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
September 2021	<p>Date Sampled: 12<sup>th</sup> October 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
October 2021	<p>Date Sampled: 10<sup>th</sup> November 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
November 2021	<p>Date Sampled: 9<sup>th</sup> December 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
December 2021	<p>Date Sampled: 19<sup>th</sup> January 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
January 2022	<p>Date Sampled: 15<sup>th</sup> February 2022</p> <p>Sample Status: Sampled</p>



DB 07	
	Air Quality Class: Ideal
February 2022	Date Sampled: 16 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 14 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 08	
Location: 23°42'43.21"S, 27°27'48.78"E Farm: Pontes Estate 744 LQ Description: Outside farm gate next D1675	
March 2021	Date Installed: 31 <sup>st</sup> March 2021
April 2021	Date Sampled: 6 <sup>th</sup> May 2021 Sample Status: Sampled Air Quality Class: Ideal
May 2021	Date Sampled: 2 <sup>nd</sup> June 2021 Sample Status: Sampled Air Quality Class: Ideal

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DB 08	
June 2021	Date Sampled: 20 <sup>th</sup> July 2021 Sample Status: Sampled Air Quality Class: Ideal
July 2021	Date Sampled: 19 <sup>th</sup> August 2021 Sample Status: Sampled Air Quality Class: Ideal
August 2021	Date Sampled: 15 <sup>th</sup> September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 <sup>th</sup> February 2022


DB 08	
	<p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
February 2022	<p>Date Sampled: 16<sup>th</sup> March 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
March 2022	<p>Date Sampled: 14<sup>th</sup> April 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>

DB 09	
<p>Location: 23°42'55.98"S, 27°27'30.40"E</p> <p>Farm: Pontes Estate 744 LQ (Buffels Jag)</p>	
March 2021	Date Installed: 31 <sup>st</sup> March 2021
April 2021	<p>Date Sampled: 6<sup>th</sup> May 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
May 2021	<p>Date Sampled: 3<sup>rd</sup> June 2021</p> <p>Sample Status: Sampled</p>

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DB 09	
	Air Quality Class: Ideal
June 2021	Date Sampled: 20 <sup>th</sup> July 2021 Sample Status: Sampled Air Quality Class: Ideal
July 2021	Date Sampled: 19 <sup>th</sup> August 2021 Sample Status: Sampled Air Quality Class: Ideal
August 2021	Date Sampled: 16 <sup>th</sup> September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 13 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 09	
January 2022	Date Sampled: 15 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 14 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 10	
Location: 23°43'28.90"S, 27°26'41.33"E Farm: Pontes Estate 744 LQ (Buffels Jag)	
March 2021	Date Installed: 31 <sup>st</sup> March 2021
April 2021	Date Sampled: 6 <sup>th</sup> May 2021 Sample Status: Sampled Air Quality Class: Ideal

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DB 10	
May 2021	Date Sampled: 3 <sup>rd</sup> June 2021 Sample Status: Sampled Air Quality Class: Ideal
June 2021	Date Sampled: 20 <sup>th</sup> July 2021 Sample Status: Sampled Air Quality Class: Ideal
July 2021	Date Sampled: 19 <sup>th</sup> August 2021 Sample Status: Sampled Air Quality Class: Ideal
August 2021	Date Sampled: 16 <sup>th</sup> September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 13 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 <sup>th</sup> January 2022

DB 10	
	Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 14 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 11	
Location: 23°44'4.06"S, 27°25'46.60"E Farm: Pontes Estates 712 LQ Description: Border fence of Enkeldraai 718 LQ	
March 2021	Date Installed: 31 <sup>st</sup> March 2021
April 2021	Date Sampled: 6 <sup>th</sup> May 2021 Sample Status: <b>Tampered (Attempted theft)</b>

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DB 11	
	Air Quality Class: Ideal
May 2021	Date Sampled: 3 <sup>rd</sup> June 2021 Sample Status: Sampled Air Quality Class: Ideal
June 2021	Date Sampled: 21 <sup>st</sup> July 2021 Sample Status: Sampled Air Quality Class: Ideal
July 2021	Date Sampled: 19 <sup>th</sup> August 2021 Sample Status: Sampled Air Quality Class: Ideal
August 2021	Date Sampled: 16 <sup>th</sup> September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 13 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal




DB 11	
December 2021	Date Sampled: 19 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 14 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 12	
Location: 23°41'23.55"S, 27°34'20.99"E Farm: N/A Description: N/A	
July 2021	Date Sampled: 19 <sup>th</sup> August 2021 Sample Status: Sampled

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DB 12	
	Air Quality Class: Ideal
August 2021	Date Sampled: 16 <sup>th</sup> September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 9 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 8 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 12	
March 2022	Date Sampled: 14 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 13	
Location: 24°38'30.48"S, 27°18'53.46"E Farm: N/A Description: N/A	
June 2021	Date Installed: 19 <sup>th</sup> July 2021
July 2021	Date Sampled: 13 <sup>th</sup> August 2021 Sample Status: Sampled Air Quality Class: Ideal
August 2021	Date Sampled: 13 <sup>th</sup> September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 11 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 9 <sup>th</sup> November 2021

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DB 13	
	<p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
November 2021	<p>Date Sampled: 8<sup>th</sup> December 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
December 2021	<p>Date Sampled: 17<sup>th</sup> January 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
January 2022	<p>Date Sampled: 14<sup>th</sup> February 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
February 2022	<p>Date Sampled: 15<sup>th</sup> March 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
March 2022	<p>Date Sampled: 13<sup>th</sup> April 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>

## DB 14

Location: 23°41'8.24"S, 27°35'18.63"E

Farm: N/A

Description: N/A



July 2021

Date Sampled: 19<sup>th</sup> August 2021

Sample Status: Installed

Air Quality Class: NA

August 2021

Date Sampled: 16<sup>th</sup> September 2021

Sample Status: Sampled

Air Quality Class: Ideal

September 2021

Date Sampled: 12<sup>th</sup> October 2021

Sample Status: Sampled

Air Quality Class: Ideal

October 2021

Date Sampled: 9<sup>th</sup> November 2021

Sample Status: Sampled

Air Quality Class: Ideal

November 2021

Date Sampled: 8<sup>th</sup> December 2021

Sample Status: Sampled

Air Quality Class: Ideal

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DB 14	
December 2021	Date Sampled: 19 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Exceeded the Residential Limit
February 2022	Date Sampled: 16 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 14 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 15	
Location: 23°46'41.92"S, 27°25'52.99"E Farm: Zandnek 358 LQ Portion 1 Description: Servitude Road	
March 2021	Date Installed: 31 <sup>st</sup> March 2021
April 2021	Date Sampled: 5 <sup>th</sup> May 2021

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DB 15	
	<p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
May 2021	<p>Date Sampled: 2<sup>nd</sup> June 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
June 2021	<p>Date Sampled: 20<sup>th</sup> July 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
July 2021	<p>Date Sampled: 18<sup>th</sup> August 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
August 2021	<p>Date Sampled: 15<sup>th</sup> September 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
September 2021	<p>Date Sampled: 12<sup>th</sup> October 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
October 2021	<p>Date Sampled: NA</p> <p>Sample Status: <b>Not Sampled – No Access</b></p> <p>Air Quality Class: NA</p>
November 2021	<p>Date Sampled: 9<sup>th</sup> December 2021</p> <p>Sample Status: Sampled</p>

DB 15	
	Air Quality Class: Ideal
December 2021	Date Sampled: 17 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: <b>Not Sampled – No Access</b> Air Quality Class: NA


DB 16	
Location: 23°47'39.91"S, 27°25'39.16"E Farm: Renosterpan 361 Portion 6 Description: Servitude Road	
March 2021	Date Installed: 31 <sup>st</sup> March 2021

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DB 16	
April 2021	Date Sampled: 5 <sup>th</sup> May 2021 Sample Status: Sampled Air Quality Class: Ideal
May 2021	Date Sampled: 2 <sup>nd</sup> June 2021 Sample Status: Sampled Air Quality Class: Ideal
June 2021	Date Sampled: 20 <sup>th</sup> July 2021 Sample Status: Sampled Air Quality Class: Ideal
July 2021	Date Sampled: 18 <sup>th</sup> August 2021 Sample Status: Sampled Air Quality Class: Ideal
August 2021	Date Sampled: 15 <sup>th</sup> September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: NA Sample Status: <b>Not Sampled – No Access</b> Air Quality Class: NA
November 2021	Date Sampled: 9 <sup>th</sup> December 2021

DB 16	
	<p>Sample Status: Sampled</p> <p>Air Quality Class: Exceeded Residential Limit</p>
December 2021	<p>Date Sampled: 17<sup>th</sup> January 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
January 2022	<p>Date Sampled: 15<sup>th</sup> February 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
February 2022	<p>Date Sampled: 16<sup>th</sup> March 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
March 2022	<p>Date Sampled: 13<sup>th</sup> April 2022</p> <p>Sample Status: <b>Not Sampled – No Access</b></p> <p>Air Quality Class: NA</p>

DB 17	
<p>Location: 23°49'17.37"S, 27°25'15.13"E</p> <p>Farm: Renosterpan 361 Portion 3</p> <p>Description: Servitude Road</p>	

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Revision:	0.0	(GBN-JV)	Author: D Nell
Date:	April 2021 to March 2022		164

DB 17	
March 2021	Date Installed: 31 <sup>st</sup> March 2021
April 2021	Date Sampled: 5 <sup>th</sup> May 2021 Sample Status: Sampled Air Quality Class: Ideal
May 2021	Date Sampled: 2 <sup>nd</sup> June 2021 Sample Status: Sampled Air Quality Class: Ideal
June 2021	Date Sampled: 20 <sup>th</sup> July 2021 Sample Status: Sampled Air Quality Class: Ideal
July 2021	Date Sampled: 18 <sup>th</sup> August 2021 Sample Status: Sampled Air Quality Class: Ideal
August 2021	Date Sampled: 15 <sup>th</sup> September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: NA Sample Status: <b>Not Sampled – No Access</b> Air Quality Class: NA

DB 17	
November 2021	Date Sampled: NA Sample Status: <b>Not Sampled – No Access</b> Air Quality Class: NA
December 2021	Date Sampled: 17 <sup>th</sup> January 2022 Sample Status: <b>Not Sampled – Bucket Stolen</b> Air Quality Class: NA
January 2022	Date Sampled: 15 <sup>th</sup> February 2022 Sample Status: <b>Not Sampled – Dust Bucket Stand Stolen</b> Air Quality Class: NA
February 2022	Date Sampled: 16 <sup>th</sup> March 2022 Sample Status: <b>Not Sampled – Dust Bucket Stand Stolen</b> Air Quality Class: NA
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: <b>Not Sampled – Dust Bucket Stand Stolen</b> Air Quality Class: NA

Location: 23°50'5.11"S, 27°25'4.54"E

Farm: Renosterpan 361 Portion 4

Description: Servitude Road



March 2021

Date Installed: 30<sup>th</sup> March 2021

April 2021

Date Sampled: 5<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2<sup>nd</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21<sup>st</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15<sup>th</sup> September 2021

Sample Status: Sampled

DB 18	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

## DB 19

Location: 23°50'36.53"S, 27°24'56.77"E

Farm: Renosterpan 361 Portion 4

Description: Servitude Road



March 2021

Date Installed: 30<sup>th</sup> March 2021

April 2021

Date Sampled: 5<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2<sup>nd</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21<sup>st</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15<sup>th</sup> September 2021

Sample Status: Sampled

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Author: D Nell

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DB 19	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal



Location: 23°51'5.81"S, 27°24'49.59"E

Farm: Renosterpan 361 Portion 5

Description: Servitude Road



March 2021

Date Installed: 30<sup>th</sup> March 2021

April 2021

Date Sampled: 5<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2<sup>nd</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21<sup>st</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15<sup>th</sup> September 2021

Sample Status: Sampled

DB 20	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Exceeded Residential Limit
December 2021	Date Sampled: 19 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 23°51'43.25"S, 27°24'40.22"E

Farm: Naauwpoort 365 LQ

Description: Servitude Road



March 2021

Date Installed: 30<sup>th</sup> March 2021

April 2021

Date Sampled: 5<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2<sup>nd</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21<sup>st</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15<sup>th</sup> September 2021

Sample Status: Sampled

DB 21	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 23°52'22.70"S, 27°24'31.05"E

Farm: Naauwpoort 365 LQ

Description: Servitude Road



March 2021

Date Installed: 30<sup>th</sup> March 2021

April 2021

Date Sampled: 5<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2<sup>nd</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21<sup>st</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15<sup>th</sup> September 2021

Sample Status: Sampled

DB 22	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 23°53'36.73"S, 27°24'13.40"E

Farm: Rooipan 357 LQ Portion 2

Description: Servitude Road



March 2021

Date Installed: 30<sup>th</sup> March 2021

April 2021

Date Sampled: 5<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2<sup>nd</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21<sup>st</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15<sup>th</sup> September 2021

Sample Status: Sampled

DB 23	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal



Location: 23°53'39.51"S, 27°24'12.55"E

Farm: Rooipan 357 LQ Portion 4

Description: Servitude Road



March 2021

Date Installed: 29<sup>th</sup> March 2021

April 2021

Date Sampled: 5<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2<sup>nd</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21<sup>st</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15<sup>th</sup> September 2021

Sample Status: Sampled

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GIBB Bigen Nyeleti Joint Venture  
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Client Restricted

Author: D Nell

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DB 24	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 23°54'1.90"S, 27°24'6.76"E

Farm: Rooipan 357 LQ Portion 4

Description: Servitude Road



March 2021

Date Installed: 29<sup>th</sup> March 2021

April 2021

Date Sampled: 5<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2<sup>nd</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21<sup>st</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15<sup>th</sup> September 2021

Sample Status: Sampled

DB 25	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 23°54'46.08"S, 27°23'56.64"E

Farm: Rooipan 357 LQ Portion 4

Description: Servitude Dam



March 2021

Date Installed: 29<sup>th</sup> March 2021

April 2021

Date Sampled: 5<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2<sup>nd</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21<sup>st</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15<sup>th</sup> September 2021

Sample Status: Sampled

DB 26	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 23°55'22.69"S, 27°23'47.77"E

Farm: Zandfontein Portion 2

Description: Servitude Road



March 2021

Date Installed: 29<sup>th</sup> March 2021

April 2021

Date Sampled: 5<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2<sup>nd</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21<sup>st</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15<sup>th</sup> September 2021

Sample Status: Sampled

DB 27	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal



Location: 23°56'29.84"S, 27°23'31.71"E

Farm: Zandfontein Portion 2

Description: Servitude Road



March 2021

Date Installed: 29<sup>th</sup> March 2021

April 2021

Date Sampled: 5<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2<sup>nd</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21<sup>st</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15<sup>th</sup> September 2021

Sample Status: Sampled

DB 28	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 23°57'11.41"S, 27°23'28.14"E

Farm: Diepspruit 386 LQ

Description: Servitude Road



March 2021

Date Installed: 29<sup>th</sup> March 2021

April 2021

Date Sampled: 5<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2<sup>nd</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21<sup>st</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15<sup>th</sup> September 2021

Sample Status: Sampled

DB 29	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 23°57'58.79"S, 27°23'37.97"E

Farm: Diepspruit 386 LQ

Description: Servitude Road



March 2021

Date Installed: 29<sup>th</sup> March 2021

April 2021

Date Sampled: 5<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2<sup>nd</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21<sup>st</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15<sup>th</sup> September 2021

Sample Status: Sampled

DB 30	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 23°58'36.77"S, 27°23'44.50"E

Farm: Mabulskop 406 LQ

Description: Servitude Road



March 2021

Date Installed: 29<sup>th</sup> March 2021

April 2021

Date Sampled: 5<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2<sup>nd</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21<sup>st</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15<sup>th</sup> September 2021

Sample Status: Sampled

DB 31	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal



Location: 23°59'45.59"S, 27°23'58.25"E

Farm: Mabulskop 406 LQ

Description: Servitude Road



March 2021

Date Installed: 29<sup>th</sup> March 2021

April 2021

Date Sampled: 5<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2<sup>nd</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21<sup>st</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15<sup>th</sup> September 2021

Sample Status: Sampled

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DB 32	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Exceeded Residential Limit
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

## DB 33

Location: 24° 0'4.67"S, 27°24'1.95"E

Farm: Groenland 397 LQ Portion 2

Description: Servitude Road



March 2021

Date Installed: 29<sup>th</sup> March 2021

April 2021

Date Sampled: 5<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2<sup>nd</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21<sup>st</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15<sup>th</sup> September 2021

Sample Status: Sampled

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DB 33	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24° 0'37.82"S, 27°24'8.36"E

Farm: Groenland 397 LQ Portion 2

Description: Servitude Road



March 2021

Date Installed: 29<sup>th</sup> March 2021

April 2021

Date Sampled: 5<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2<sup>nd</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21<sup>st</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15<sup>th</sup> September 2021

Sample Status: Sampled

DB 34	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24° 0'51.33"S, 27°24'10.07"E

Farm: Inkerman 10 KQ Portion 2

Description: Servitude Road



March 2021

Date Installed: 29<sup>th</sup> March 2021

April 2021

Date Sampled: 5<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2<sup>nd</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21<sup>st</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15<sup>th</sup> September 2021

Sample Status: Sampled

DB 35	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

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Location: 24° 1'3.54"S, 27°24'12.35"E

Farm: Inkerman 10 KQ portion 3

Description: Servitude Road



March 2021

Date Installed: 29<sup>th</sup> March 2021

April 2021

Date Sampled: 5<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2<sup>nd</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21<sup>st</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15<sup>th</sup> September 2021

Sample Status: Sampled

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DB 36	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24° 1'7.07"S, 27°24'13.15"E

Farm: Inkerman 10 KQ portion 3

Description: Servitude Road



March 2021

Date Installed: 29<sup>th</sup> March 2021

April 2021

Date Sampled: 5<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2<sup>nd</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21<sup>st</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15<sup>th</sup> September 2021

Sample Status: Sampled

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DB 37	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 <sup>th</sup> January 2022 Sample Status: Not Sampled – Bucket Stolen Air Quality Class: NA
January 2022	Date Sampled: 15 <sup>th</sup> February 2022 Sample Status: Not Sampled – Bucket Stolen Air Quality Class: NA
February 2022	Date Sampled: 16 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

<p>Location: 24° 1'34.37"S, 27°24'18.32"E</p> <p>Farm: Inkerman 10 KQ Portion 3</p> <p>Description: Servitude Road</p>	
March 2021	Date Installed: 29 <sup>th</sup> March 2021
April 2021	<p>Date Sampled: 5<sup>th</sup> May 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
May 2021	<p>Date Sampled: 2<sup>nd</sup> June 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
June 2021	<p>Date Sampled: 21<sup>st</sup> July 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
July 2021	<p>Date Sampled: 18<sup>th</sup> August 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>

DB 38	
August 2021	Date Sampled: 15 <sup>th</sup> September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 38	
March 2022	Date Sampled: 13 <sup>th</sup> April 2022  Sample Status: Sampled  Air Quality Class: Ideal

DB 39	
Location: 23°41'35.31"S; 27°38'51.43"E  Farm: Rietfontein 820 KQ  Description: Servitude Road	
March 2021	Date Installed: 29 <sup>th</sup> March 2021
April 2021	Date Sampled: 5 <sup>th</sup> May 2021  Sample Status: Sampled  Air Quality Class: Ideal
May 2021	Date Sampled: 2 <sup>nd</sup> June 2021  Sample Status: Sampled  Air Quality Class: Ideal
June 2021	Date Sampled: 21 <sup>st</sup> July 2021  Sample Status: Sampled  Air Quality Class: Ideal
July 2021	Date Sampled: 18 <sup>th</sup> August 2021

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DB 39	
	<p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
August 2021	<p>Date Sampled: 15<sup>th</sup> September 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
September 2021	<p>Date Sampled: 12<sup>th</sup> October 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
October 2021	<p>Date Sampled: 10<sup>th</sup> November 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
November 2021	<p>Date Sampled: 9<sup>th</sup> December 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
December 2021	<p>Date Sampled: 19<sup>th</sup> January 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
January 2022	<p>Date Sampled: 15<sup>th</sup> February 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
February 2022	<p>Date Sampled: 16<sup>th</sup> March 2022</p> <p>Sample Status: Sampled</p>



DB 39	
	Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 40	
Location: 24° 2'29.74"S, 27°24'28.91"E Farm: Rietfontein 820 KQ Description: Servitude Road	
March 2021	Date Installed: 29 <sup>th</sup> March 2021
April 2021	Date Sampled: 5 <sup>th</sup> May 2021 Sample Status: Sampled Air Quality Class: Ideal
May 2021	Date Sampled: 2 <sup>nd</sup> June 2021 Sample Status: Sampled Air Quality Class: Ideal
June 2021	Date Sampled: 21 <sup>st</sup> July 2021 Sample Status: Sampled Air Quality Class: Ideal

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DB 40	
July 2021	Date Sampled: 18 <sup>th</sup> August 2021 Sample Status: Sampled Air Quality Class: Ideal
August 2021	Date Sampled: 15 <sup>th</sup> September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: <b>Not Sampled – Tampered</b> Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 <sup>th</sup> March 2022

DB 40	
	Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 41	
Location: 24° 2'40.69"S, 27°24'31.20"E Farm: Rietfontein 820 KQ Description: Servitude Road	
March 2021	Date Installed: 29 <sup>th</sup> March 2021
April 2021	Date Sampled: 5 <sup>th</sup> May 2021 Sample Status: Sampled Air Quality Class: Ideal
May 2021	Date Sampled: 2 <sup>nd</sup> June 2021 Sample Status: Sampled Air Quality Class: Ideal
June 2021	Date Sampled: 21 <sup>st</sup> July 2021 Sample Status: Sampled

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DB 41	
	Air Quality Class: Ideal
July 2021	Date Sampled: 18 <sup>th</sup> August 2021 Sample Status: Sampled Air Quality Class: Ideal
August 2021	Date Sampled: 15 <sup>th</sup> September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 41	
February 2022	Date Sampled: 16 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 42	
Location: 24° 2'46.02"S, 27°24'32.19"E Farm: Rietfontein 15 KQ Portion 4 Description: Servitude Road	
March 2021	Date Installed: 29 <sup>th</sup> March 2021
April 2021	Date Sampled: 5 <sup>th</sup> May 2021 Sample Status: Sampled Air Quality Class: Ideal
May 2021	Date Sampled: 2 <sup>nd</sup> June 2021 Sample Status: Sampled Air Quality Class: Ideal
June 2021	Date Sampled: 21 <sup>st</sup> July 2021

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DB 42	
	<p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
July 2021	<p>Date Sampled: 18<sup>th</sup> August 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
August 2021	<p>Date Sampled: 15<sup>th</sup> September 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
September 2021	<p>Date Sampled: 12<sup>th</sup> October 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
October 2021	<p>Date Sampled: 10<sup>th</sup> November 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
November 2021	<p>Date Sampled: 9<sup>th</sup> December 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
December 2021	<p>Date Sampled: 19<sup>th</sup> January 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
January 2022	<p>Date Sampled: 15<sup>th</sup> February 2022</p> <p>Sample Status: Sampled</p>

DB 42	
	Air Quality Class: Ideal
February 2022	Date Sampled: 16 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 43	
Location: 24° 3'21.38"S, 27°24'37.93"E Farm: Rietfontein 15 KQ Portion 4 Description: Servitude Road	
March 2021	Date Installed: 29 <sup>th</sup> March 2021
April 2021	Date Sampled: 5 <sup>th</sup> May 2021 Sample Status: Sampled Air Quality Class: Ideal
May 2021	Date Sampled: 2 <sup>nd</sup> June 2021 Sample Status: Sampled Air Quality Class: Ideal

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DB 43	
June 2021	Date Sampled: 21 <sup>st</sup> July 2021 Sample Status: Sampled Air Quality Class: Ideal
July 2021	Date Sampled: 18 <sup>th</sup> August 2021 Sample Status: Sampled Air Quality Class: Ideal
August 2021	Date Sampled: 15 <sup>th</sup> September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 <sup>th</sup> February 2022



DB 43	
	Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 44	
Location: 24° 4'29.95"S, 27°24'51.86"E Farm: Schoonwater 14 KQ Portion 1 Description: Servitude Road	
March 2021	Date Installed: 29 <sup>th</sup> March 2021
April 2021	Date Sampled: 5 <sup>th</sup> May 2021 Sample Status: Sampled Air Quality Class: Ideal
May 2021	Date Sampled: 2 <sup>nd</sup> June 2021 Sample Status: Sampled

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DB 44	
	Air Quality Class: Ideal
June 2021	Date Sampled: 21 <sup>st</sup> July 2021 Sample Status: Sampled Air Quality Class: Ideal
July 2021	Date Sampled: 18 <sup>th</sup> August 2021 Sample Status: Sampled Air Quality Class: Ideal
August 2021	Date Sampled: 15 <sup>th</sup> September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 44	
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 45	
Location: 24° 4'53.87"S, 27°24'55.26"E Farm: Schoonwater 14 KQ Portion 1 Description: Servitude Road	
March 2021	Date Installed: 29 <sup>th</sup> March 2021
April 2021	Date Sampled: 5 <sup>th</sup> May 2021 Sample Status: Sampled Air Quality Class: Ideal
May 2021	Date Sampled: 2 <sup>nd</sup> June 2021

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DB 45	
	<p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
June 2021	<p>Date Sampled: 21<sup>st</sup> July 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
July 2021	<p>Date Sampled: 18<sup>th</sup> August 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
August 2021	<p>Date Sampled: 15<sup>th</sup> September 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
September 2021	<p>Date Sampled: 12<sup>th</sup> October 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
October 2021	<p>Date Sampled: 10<sup>th</sup> November 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
November 2021	<p>Date Sampled: 9<sup>th</sup> December 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
December 2021	<p>Date Sampled: 19<sup>th</sup> January 2022</p> <p>Sample Status: Sampled</p>

DB 45	
	Air Quality Class: Ideal
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 46	
Location: 24° 5'48.56"S, 27°25'8.99"E Farm: Welgewonden 16 KQ portion 6 Description: Servitude Road	
March 2021	Date Installed: 29 <sup>th</sup> March 2021
April 2021	Date Sampled: 5 <sup>th</sup> May 2021 Sample Status: Sampled Air Quality Class: Ideal

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DB 46	
May 2021	Date Sampled: 2 <sup>nd</sup> June 2021 Sample Status: Sampled Air Quality Class: Ideal
June 2021	Date Sampled: 21 <sup>st</sup> July 2021 Sample Status: Sampled Air Quality Class: Ideal
July 2021	Date Sampled: 18 <sup>th</sup> August 2021 Sample Status: Sampled Air Quality Class: Ideal
August 2021	Date Sampled: 15 <sup>th</sup> September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 <sup>th</sup> January 2022

DB 46	
	Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 47			
Location: 24° 6'2.39"S, 27°25'12.90"E  Farm: Welgewonden 16 KQ portion 9  Description: Servitude Road			
March 2021		Date Installed: 29 <sup>th</sup> March 2021	
April 2021		Date Sampled: 5 <sup>th</sup> May 2021  Sample Status: Sampled	
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Revision:	0.0		
Date:	April 2021 to March 2022		

DB 47	
	Air Quality Class: Ideal
May 2021	Date Sampled: 2 <sup>nd</sup> June 2021 Sample Status: Sampled Air Quality Class: Ideal
June 2021	Date Sampled: 21 <sup>st</sup> July 2021 Sample Status: Sampled Air Quality Class: Ideal
July 2021	Date Sampled: 18 <sup>th</sup> August 2021 Sample Status: Sampled Air Quality Class: Ideal
August 2021	Date Sampled: 15 <sup>th</sup> September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal



DB 47	
December 2021	Date Sampled: 19 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 48	
Location: 24° 6'33.52"S, 27°25'21.12"E Farm: Welgewonden 949 KQ Description: Servitude Road	
March 2021	Date Installed: 29 <sup>th</sup> March 2021
April 2021	Date Sampled: 5 <sup>th</sup> May 2021

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DB 48	
	<p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
May 2021	<p>Date Sampled: 2<sup>nd</sup> June 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
June 2021	<p>Date Sampled: 21<sup>st</sup> July 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
July 2021	<p>Date Sampled: 18<sup>th</sup> August 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
August 2021	<p>Date Sampled: 15<sup>th</sup> September 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
September 2021	<p>Date Sampled: 12<sup>th</sup> October 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
October 2021	<p>Date Sampled: 10<sup>th</sup> November 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
November 2021	<p>Date Sampled: 9<sup>th</sup> December 2021</p> <p>Sample Status: Sampled</p>

DB 48	
	Air Quality Class: Ideal
December 2021	Date Sampled: 19 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24° 7'11.42"S, 27°25'32.63"E

Farm: Welgewonden 949 KQ

Description: Servitude Road



March 2021

Date Installed: 29<sup>th</sup> March 2021

April 2021

Date Sampled: 5<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2<sup>nd</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21<sup>st</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15<sup>th</sup> September 2021

Sample Status: Sampled

DB 49	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24° 7'50.30"S, 27°25'43.01"E

Farm: Welgewonden 949 KQ

Description: Servitude Road



March 2021

Date Installed: 29<sup>th</sup> March 2021

April 2021

Date Sampled: 5<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2<sup>nd</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21<sup>st</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15<sup>th</sup> September 2021

Sample Status: Sampled

DB 50	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: Not Sampled – Bucket Stolen Air Quality Class: NA
February 2022	Date Sampled: 16 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24° 8'36.82"S, 27°25'56.47"E

Farm: Welgewonden 949 KQ

Description: Servitude Road



March 2021

Date Installed: 29<sup>th</sup> March 2021

April 2021

Date Sampled: 5<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2<sup>nd</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21<sup>st</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15<sup>th</sup> September 2021

Sample Status: Sampled



DB 51	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24° 9'10.22"S, 27°26'5.85"E

Farm: Welgewonden 949 KQ

Description: Servitude Road



March 2021

Date Installed: 29<sup>th</sup> March 2021

April 2021

Date Sampled: 5<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2<sup>nd</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21<sup>st</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15<sup>th</sup> September 2021

Sample Status: Sampled

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DB 52	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 <sup>th</sup> January 2022 Sample Status: Not Sampled – Bucket Stolen Air Quality Class: NA
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

## DB 53

Location: 24° 9'23.38"S, 27°26'10.00"E

Farm: Harlemoost 51 KQ portion 13

Description: Servitude Road



March 2021

Date Installed: 29<sup>th</sup> March 2021

April 2021

Date Sampled: 5<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2<sup>nd</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21<sup>st</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15<sup>th</sup> September 2021

Sample Status: Sampled

Document No:

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Author: D Nell

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DB 53	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24° 9'56.57"S, 27°26'19.10"E

Farm: Harlemoost 51 KQ portion 13

Description: Servitude Road



March 2021

Date Installed: 29<sup>th</sup> March 2021

April 2021

Date Sampled: 5<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2<sup>nd</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21<sup>st</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15<sup>th</sup> September 2021

Sample Status: Sampled

DB 54	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24°10'32.51"S, 27°26'26.49"E

Farm: Harlemoost 51 KQ portion 16

Description: Servitude Road



March 2021

Date Installed: 29<sup>th</sup> March 2021

April 2021

Date Sampled: 5<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2<sup>nd</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21<sup>st</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15<sup>th</sup> September 2021

Sample Status: Sampled



DB 55	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24°10'55.15"S, 27°26'36.17"E

Farm: Harlemoost 51 KQ portion 15

Description: Servitude Road



March 2021

Date Installed: 29<sup>th</sup> March 2021

April 2021

Date Sampled: 5<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2<sup>nd</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21<sup>st</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15<sup>th</sup> September 2021

Sample Status: Sampled

DB 56	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24°11'38.61"S, 27°26'48.79"E

Farm: Harlemoost 51 KQ portion 15

Description: Servitude Road



March 2021

Date Installed: 29<sup>th</sup> March 2021

April 2021

Date Sampled: 5<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2<sup>nd</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21<sup>st</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15<sup>th</sup> September 2021

Sample Status: Sampled

DB 57	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24°11'49.30"S, 27°26'51.53"E

Farm: Matlabas 94 KQ Portion 2

Description: Servitude Road



March 2021

Date Installed: 29<sup>th</sup> March 2021

April 2021

Date Sampled: 5<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1<sup>st</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21<sup>st</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15<sup>th</sup> September 2021

Sample Status: Sampled

DB 58	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 17 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24°12'25.42"S, 27°26'59.45"E

Farm: Matlabas 94 KQ Portion 2

Description: Servitude Road



March 2021

Date Installed: 29<sup>th</sup> March 2021

April 2021

Date Sampled: 5<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1<sup>st</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21<sup>st</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15<sup>th</sup> September 2021

Sample Status: Sampled

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DB 59	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 17 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24°13'6.00"S, 27°26'59.07"E

Farm: Matlabas 94 KQ Portion 2

Description: Servitude Road



March 2021

Date Installed: 29<sup>th</sup> March 2021

April 2021

Date Sampled: 5<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1<sup>st</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21<sup>st</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15<sup>th</sup> September 2021

Sample Status: Sampled

DB 60	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 17 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

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Location: 24°14'34.19"S, 27°26'58.48"E

Farm: Matsulan 98 KQ Portion 37

Description: Servitude Road



March 2021

Date Installed: 29<sup>th</sup> March 2021

April 2021

Date Sampled: 5<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1<sup>st</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21<sup>st</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15<sup>th</sup> September 2021

Sample Status: Sampled

DB 61	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 17 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24°14'49.64"S, 27°26'58.86"E

Farm: Matsulan 98 KQ Portion 37

Description: Servitude Road



March 2021

Date Installed: 29<sup>th</sup> March 2021

April 2021

Date Sampled: 5<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1<sup>st</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21<sup>st</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15<sup>th</sup> September 2021

Sample Status: Sampled

DB 62	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 17 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24°15'19.44"S, 27°26'58.33"E

Farm: Witklip 665 KQ Portion 4

Description: Servitude Road



March 2021

Date Installed: 29<sup>th</sup> March 2021

April 2021

Date Sampled: 5<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1<sup>st</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21<sup>st</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15<sup>th</sup> September 2021

Sample Status: Sampled



DB 63	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 17 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24°16'6.23"S, 27°26'58.26"E

Farm: Witklip 665 KQ Portion 4

Description: Servitude Road



March 2021

Date Installed: 29<sup>th</sup> March 2021

April 2021

Date Sampled: 5<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1<sup>st</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21<sup>st</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15<sup>th</sup> September 2021

Sample Status: Sampled

DB 64	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 17 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24°16'42.57"S, 27°26'57.57"E

Farm: Witklip 665 KQ Portion 4

Description: Servitude Road



March 2021

Date Installed: 29<sup>th</sup> March 2021

April 2021

Date Sampled: 5<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1<sup>st</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21<sup>st</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15<sup>th</sup> September 2021

Sample Status: Sampled

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DB 65	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 17 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24°17'26.82"S, 27°26'56.01"E

Farm: Witklip 665 KQ Portion 4

Description: Servitude Road



March 2021

Date Installed: 29<sup>th</sup> March 2021

April 2021

Date Sampled: 5<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1<sup>st</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21<sup>st</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15<sup>th</sup> September 2021

Sample Status: Sampled

DB 66	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 17 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24°18'14.46"S, 27°26'56.97"E

Farm: Rugtevley 97 KQ Portion 5

Description: Servitude Road



March 2021

Date Installed: 29<sup>th</sup> March 2021

April 2021

Date Sampled: 5<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1<sup>st</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21<sup>st</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15<sup>th</sup> September 2021

Sample Status: Sampled



DB 67	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 17 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24°18'49.52"S, 27°26'57.63"E

Farm: Rugtevely 97 KQ Portion 5

Description: Servitude Road



March 2021

Date Installed: 29<sup>th</sup> March 2021

April 2021

Date Sampled: 5<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1<sup>st</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21<sup>st</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15<sup>th</sup> September 2021

Sample Status: Sampled

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Author: D Nell

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DB 68	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 17 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24°19'31.03"S, 27°26'56.52"E

Farm: Rugtevely 97 KQ Portion 6

Description: Servitude Road



March 2021

Date Installed: 29<sup>th</sup> March 2021

April 2021

Date Sampled: 5<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1<sup>st</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21<sup>st</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15<sup>th</sup> September 2021

Sample Status: Sampled

DB 69	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: <b>Not Sampled – Bucket was Stolen</b> Air Quality Class: NA
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 17 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

## DB 70

Location: 24°20'4.26"S, 27°26'56.14"E

Farm: Rugtevely 97 KQ Portion 6

Description: Servitude Road



March 2021

Date Installed: 29<sup>th</sup> March 2021

April 2021

Date Sampled: 5<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1<sup>st</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21<sup>st</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15<sup>th</sup> September 2021

Sample Status: Sampled

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DB 70	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 17 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

## DB 71

Location: 24°20'45.70"S, 27°26'55.87"E

Farm: Blaauwpan 133 KQ

Description: Servitude Road



March 2021	Date Installed: 29 <sup>th</sup> March 2021
April 2021	Date Sampled: 5 <sup>th</sup> May 2021 Sample Status: Sampled Air Quality Class: Ideal
May 2021	Date Sampled: 1 <sup>st</sup> June 2021 Sample Status: Sampled Air Quality Class: Ideal
June 2021	Date Sampled: 21 <sup>st</sup> July 2021 Sample Status: Sampled Air Quality Class: Ideal
July 2021	Date Sampled: 18 <sup>th</sup> August 2021 Sample Status: Sampled Air Quality Class: Ideal
August 2021	Date Sampled: 15 <sup>th</sup> September 2021 Sample Status: Sampled

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DB 71	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 17 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24°21'48.85"S, 27°26'55.81"E

Farm: Blaauwpan 133 KQ

Description: Servitude Road



March 2021

Date Installed: 29<sup>th</sup> March 2021

April 2021

Date Sampled: 5<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1<sup>st</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21<sup>st</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15<sup>th</sup> September 2021

Sample Status: Sampled

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DB 72	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 17 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Exceeded the Residential limit.
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24°23'9.52"S, 27°26'54.85"E

Farm: Blaauwpan 133 KQ

Description: Servitude Road



March 2021

Date Installed: 29<sup>th</sup> March 2021

April 2021

Date Sampled: 5<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1<sup>st</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21<sup>st</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15<sup>th</sup> September 2021

Sample Status: Sampled

DB 73	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 17 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24°23'21.10"S, 27°26'33.71"E

Description: Dirt road between Tarentaalpan 132 KQ portion 2 and  
Diepkuil 135 Portion 5



March 2021

Date Installed: 29<sup>th</sup> March 2021

April 2021

Date Sampled: 5<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1<sup>st</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21<sup>st</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15<sup>th</sup> September 2021

Sample Status: Sampled

DB 74	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 17 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24°23'31.60"S, 27°26'13.03"E

Description: Dirt road between Tarentaalpan 132 KQ portion 2 and  
Diepkuil 135 Portion 5



March 2021

Date Installed: 30th March 2021

April 2021

Date Sampled: 5<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1<sup>st</sup> June 2021

Sample Status: **Stolen (Dust Bucket stolen from the  
dust stand)**

Air Quality Class: NA

June 2021

Date Sampled: 21<sup>st</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15<sup>th</sup> September 2021

Sample Status: Sampled

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DB 75	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: <b>Not Sampled – Bucket Was Stolen</b> Air Quality Class: NA
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 17 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 <sup>th</sup> March 2022 Sample Status: <b>Not Sampled – Dust Bucket Stolen</b> Air Quality Class: NA
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24°23'53.46"S, 27°25'19.77"E

Description: Dirt road between Tarentaalpan 132 KQ portion 2 and  
Diepkuil 135 Portion 3



March 2021

Date Installed: 30th March 2021

April 2021

Date Sampled: 5<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1<sup>st</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21<sup>st</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18<sup>th</sup> August 2021

Sample Status: Sampled


Air Quality Class: Ideal

August 2021

Date Sampled: 15<sup>th</sup> September 2021

Sample Status: Sampled

DB 76	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 17 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

<p>Location: 24°24'24.61"S, 27°24'3.45"E</p> <p>Farm: Diepkuil 135 KQ Portion 3</p> <p>Description: Along the R510</p>	
March 2021	Date Installed: 30th March 2021
April 2021	<p>Date Sampled: 5<sup>th</sup> May 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
May 2021	<p>Date Sampled: 1<sup>st</sup> June 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
June 2021	<p>Date Sampled: 21<sup>st</sup> July 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
July 2021	<p>Date Sampled: 17<sup>th</sup> August 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
August 2021	<p>Date Sampled: 14<sup>th</sup> September 2021</p> <p>Sample Status: Sampled</p>

DB 77	
	Air Quality Class: Ideal
September 2021	Date Sampled: 11 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 9 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 17 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Exceeded the Residential limit.
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 23°41'35.31"S; 27°38'51.43"E

Farm: Diepkuil Portion 3

Description: Along the R510



March 2021

Date Installed: 30th March 2021

April 2021

Date Sampled: 5<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1<sup>st</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21<sup>st</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 17<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 14<sup>th</sup> September 2021

Sample Status: Sampled

DB 78	
	Air Quality Class: Ideal
September 2021	Date Sampled: 11 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 9 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 17 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24°25'29.93"S, 27°24'23.06"E

Farm: Diepkuil 135 KQ Portion 1

Description: Along the R510



March 2021

Date Installed: 30<sup>th</sup> March 2021

April 2021

Date Sampled: 4<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1<sup>st</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 19<sup>th</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 17<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 14<sup>th</sup> September 2021

Sample Status: Sampled



DB 79	
	Air Quality Class: Ideal
September 2021	Date Sampled: 11 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 9 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 17 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

## DB 80

Location: 24°25'33.45"S, 27°24'13.50"E

Description: Along Dirt road between Zondagsuil 137 KQ and Diepkuil 135 KQ portion 1



March 2021

Date Installed: 30<sup>th</sup> March 2021

April 2021

Date Sampled: 4<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1<sup>st</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 19<sup>th</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 17<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 14<sup>th</sup> September 2021

Sample Status: Sampled

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DB 80	
	Air Quality Class: Ideal
September 2021	Date Sampled: 11 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 9 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 18 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24°25'47.88"S, 27°23'10.20"E

Description: Along Dirt road between Zondagsuil 137 KQ and Diepkuil 135 KQ portion 1



March 2021

Date Installed: 30<sup>th</sup> March 2021

April 2021

Date Sampled: 4<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1<sup>st</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 19<sup>th</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 17<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 14<sup>th</sup> September 2021

Sample Status: Sampled

DB 81	
	Air Quality Class: Ideal
September 2021	Date Sampled: 11 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 9 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 18 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24°26'31.14"S, 27°21'39.92"E

Description: Along Dirt road between Buffelsvley 127 KQ and Karoobult 126 KQ



March 2021

Date Installed: 30<sup>th</sup> March 2021

April 2021

Date Sampled: 4<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1<sup>st</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 19<sup>th</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 17<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 14<sup>th</sup> September 2021

Sample Status: Sampled

DB 82	
	Air Quality Class: Ideal
September 2021	Date Sampled: 11 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 9 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 18 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24°27'9.88"S, 27°20'11.67"E

Description: Along Dirt road between Buffelsvley 127 KQ and Karoobult 126 KQ



March 2021

Date Installed: 30<sup>th</sup> March 2021

April 2021

Date Sampled: 4<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1<sup>st</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 19<sup>th</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 17<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 14<sup>th</sup> September 2021

Sample Status: Sampled



DB 83	
	Air Quality Class: Ideal
September 2021	Date Sampled: 11 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 9 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 18 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24°28'20.86"S, 27°17'27.36"E

Farm: Paarl 124 KQ Portion 6

Description: Beneath power line



March 2021

Date Installed: 30<sup>th</sup> March 2021

April 2021

Date Sampled: 4<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1<sup>st</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 19<sup>th</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 17<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 14<sup>th</sup> September 2021

Sample Status: Sampled

DB 84	
	Air Quality Class: Ideal
September 2021	Date Sampled: 11 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: NA Sample Status: <b>Not Sampled – No Access</b> Air Quality Class: NA
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 18 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: <b>Not Sampled – No Access</b> Air Quality Class: NA
February 2022	Date Sampled: 15 <sup>th</sup> March 2022 Sample Status: <b>Not Sampled – No Access</b> Air Quality Class: NA
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24°30'0.19"S, 27°16'58.48"E

Farm: Paarl 124 KQ Portion 3

Description: Beneath powerlines near eastern boundary line



March 2021

Date Installed: 29<sup>th</sup> March 2021

April 2021

Date Sampled: 4<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1<sup>st</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 19<sup>th</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 17<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 14<sup>th</sup> September 2021

Sample Status: Sampled

DB 85	
	Air Quality Class: Ideal
September 2021	Date Sampled: 11 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: NA Sample Status: <b>Not Sampled – No Access</b> Air Quality Class: NA
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 18 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: <b>Not Sampled – No Access</b> Air Quality Class: NA
February 2022	Date Sampled: 15 <sup>th</sup> March 2022 Sample Status: <b>Not Sampled – No Access</b> Air Quality Class: NA
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24°31'38.11"S, 27°16'29.83"E

Farm: Stratford 462 KO

Description: Along D769 dirt road



March 2021

Date Installed: 29<sup>th</sup> March 2021

April 2021

Date Sampled: 4<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Exceeded Residential Limit

May 2021

Date Sampled: 1<sup>st</sup> June 2021

Sample Status: Sampled

Air Quality Class: Exceeded Residential Limit

June 2021

Date Sampled: 19<sup>th</sup> July 2021

Sample Status: Sampled

Air Quality Class: Exceeded Residential Limit

July 2021

Date Sampled: 17<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Exceeded Residential Limit

August 2021

Date Sampled: 14<sup>th</sup> September 2021

Sample Status: Sampled

DB 86	
	Air Quality Class: Exceeded Residential Limit
September 2021	Date Sampled: 11 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Exceeded Residential Limit
October 2021	Date Sampled: 9 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Exceeded Residential Limit
December 2021	Date Sampled: 18 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Exceeded Residential Limit
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

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Location: 24°33'53.16"S, 27°18'16.95"E

Farm: Stratford 462 KQ

Description: Along D769 dirt road



March 2021

Date Installed: 29<sup>th</sup> March 2021

April 2021

Date Sampled: 4<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Exceeded both Residential and Industrial limits

May 2021

Date Sampled: 1<sup>st</sup> June 2021

Sample Status: Sampled

Air Quality Class: Exceeded both Residential and Industrial limits

June 2021

Date Sampled: 19<sup>th</sup> July 2021

Sample Status: Sampled

Air Quality Class: Exceeded both Residential and Industrial limits

July 2021

Date Sampled: 17<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Exceeded both Residential and Industrial limits

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DB 87	
August 2021	<p>Date Sampled: 14<sup>th</sup> September 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Exceeded both the Residential limit and the Industrial</p>
September 2021	<p>Date Sampled: 11<sup>th</sup> October 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Exceeded both the Residential limit and the Industrial</p>
October 2021	<p>Date Sampled: 9<sup>th</sup> November 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Exceeded Residential Limit</p>
November 2021	<p>Date Sampled: 9<sup>th</sup> December 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Exceeded the Residential, Industrial and Unacceptable limit</p>
December 2021	<p>Date Sampled: 18<sup>th</sup> January 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
January 2022	<p>Date Sampled: 14<sup>th</sup> February 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Exceeded the Residential and Industrial Limit.</p>
February 2022	<p>Date Sampled: 15<sup>th</sup> March 2022</p> <p>Sample Status: Sampled</p>

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DB 87	
	Air Quality Class: Exceeded the Residential and Industrial Limits.
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Exceeded the Residential Limit.

DB 88	
Location: 24°34'14.79"S, 27°18'36.10"E Farm: Stratford 462 KQ Description: Situated between the houses of the small community	
March 2021	Date Installed: 29 <sup>th</sup> March 2021
April 2021	Date Sampled: 4 <sup>th</sup> May 2021 Sample Status: Sampled Air Quality Class: Exceeded Residential Limit
May 2021	Date Sampled: 1 <sup>st</sup> June 2021 Sample Status: Sampled Air Quality Class: Ideal
June 2021	Date Sampled: 19 <sup>th</sup> July 2021 Sample Status: Sampled

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DB 88	
	Air Quality Class: Ideal
July 2021	Date Sampled: 17 <sup>th</sup> August 2021 Sample Status: Sampled Air Quality Class: Ideal
August 2021	Date Sampled: 14 <sup>th</sup> September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 11 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 9 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 18 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Exceeded both the residential and industrial limits.
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 88	
February 2022	Date Sampled: 15 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Exceeded the Residential Limit.

DB 89	
Location: 24°34'24.25"S, 27°18'35.18"E Farm: Stratford 462 KQ Description: Situated within Primary School Property	
March 2021	Date Installed: 29 <sup>th</sup> March 2021
April 2021	Date Sampled: 4 <sup>th</sup> May 2021 Sample Status: Sampled Air Quality Class: Ideal
May 2021	Date Sampled: 1 <sup>st</sup> June 2021 Sample Status: Sampled Air Quality Class: Ideal
June 2021	Date Sampled: 19 <sup>th</sup> July 2021

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DB 89	
	<p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
July 2021	<p>Date Sampled: 17<sup>th</sup> August 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
August 2021	<p>Date Sampled: 14<sup>th</sup> September 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
September 2021	<p>Date Sampled: 11<sup>th</sup> October 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
October 2021	<p>Date Sampled: 9<sup>th</sup> November 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
November 2021	<p>Date Sampled: 9<sup>th</sup> December 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
December 2021	<p>Date Sampled: 18<sup>th</sup> January 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
January 2022	<p>Date Sampled: 14<sup>th</sup> February 2022</p> <p>Sample Status: Sampled</p>

DB 89	
	Air Quality Class: Ideal
February 2022	Date Sampled: 15 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 90	
Location: 24°35'35.70"S, 27°17'45.31"E Farm: Mooivalei 342 KQ – Portion 1 Description: Situated next to the farmhouse property fence	
March 2021	Date Installed: 29 <sup>th</sup> March 2021
April 2021	Date Sampled: 4 <sup>th</sup> May 2021 Sample Status: Sampled Air Quality Class: Ideal
May 2021	Date Sampled: 1 <sup>st</sup> June 2021 Sample Status: Sampled Air Quality Class: Ideal

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DB 90	
June 2021	Date Sampled: 19 <sup>th</sup> July 2021 Sample Status: Sampled Air Quality Class: Ideal
July 2021	Date Sampled: 17 <sup>th</sup> August 2021 Sample Status: Sampled Air Quality Class: Ideal
August 2021	Date Sampled: 14 <sup>th</sup> September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 11 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 9 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 18 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 <sup>th</sup> February 2022

DB 90	
	Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 91	
Location: 24°35'59.20"S, 27°17'38.40"E Farm: Mooivalei 342 KQ – Portion 2 Description: Situated Within the farmhouse boundary fence	
March 2021	Date Installed: 29 <sup>th</sup> March 2021
April 2021	Date Sampled: 4 <sup>th</sup> May 2021 Sample Status: Sampled Air Quality Class: Ideal
May 2021	Date Sampled: 3 <sup>rd</sup> June 2021 Sample Status: Sampled

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DB 91	
	Air Quality Class: Ideal
June 2021	Date Sampled: 22 <sup>nd</sup> July 2021 Sample Status: Sampled Air Quality Class: Ideal
July 2021	Date Sampled: 17 <sup>th</sup> August 2021 Sample Status: Sampled Air Quality Class: Ideal
August 2021	Date Sampled: 14 <sup>th</sup> September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 11 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 9 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 18 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 91	
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 92	
Location: 24°36'25.02"S, 27°17'49.23"E Farm: Mooivalei 342 KQ – Portion 4 Description: Situated near the farmhouse	
March 2021	Date Installed: 29 <sup>th</sup> March 2021
April 2021	Date Sampled: 4 <sup>th</sup> May 2021 Sample Status: Sampled Air Quality Class: Ideal
May 2021	Date Sampled: 1 <sup>st</sup> June 2021

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DB 92	
	<p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
June 2021	<p>Date Sampled: 19<sup>th</sup> July 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
July 2021	<p>Date Sampled: 17<sup>th</sup> August 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
August 2021	<p>Date Sampled: 14<sup>th</sup> September 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
September 2021	<p>Date Sampled: 11<sup>th</sup> October 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
October 2021	<p>Date Sampled: 9<sup>th</sup> November 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
November 2021	<p>Date Sampled: 9<sup>th</sup> December 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Exceeded Residential Limit</p>
December 2021	<p>Date Sampled: 18<sup>th</sup> January 2022</p> <p>Sample Status: Sampled</p>

DB 92	
	Air Quality Class: Ideal
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 93	
Location: 24°36'51.37"S, 27°18'27.13"E Farm: Mooivalei 342 KQ – Portion 7 Description: Situated next to the farm work shed	
March 2021	Date Installed: 29 <sup>th</sup> March 2021
April 2021	Date Sampled: 4 <sup>th</sup> May 2021 Sample Status: Sampled Air Quality Class: Ideal

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DB 93	
May 2021	Date Sampled: 1 <sup>st</sup> June 2021 Sample Status: Sampled Air Quality Class: Ideal
June 2021	Date Sampled: 19 <sup>th</sup> July 2021 Sample Status: Sampled Air Quality Class: Ideal
July 2021	Date Sampled: 17 <sup>th</sup> August 2021 Sample Status: Sampled Air Quality Class: Ideal
August 2021	Date Sampled: 14 <sup>th</sup> September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 11 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 9 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 18 <sup>th</sup> January 2022

DB 93	
	<p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
January 2022	<p>Date Sampled: 14<sup>th</sup> February 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
February 2022	<p>Date Sampled: 15<sup>th</sup> March 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
March 2022	<p>Date Sampled: 13<sup>th</sup> April 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>

DB 94	
<p>Location: 24°37'18.10"S, 27°18'45.97"E</p> <p>Farm: Mooivalei 342 KQ – Portion 9</p> <p>Description: Situated within horse paddock</p>	
March 2021	Date Installed: 29 <sup>th</sup> March 2021
April 2021	<p>Date Sampled: 4<sup>th</sup> May 2021</p> <p>Sample Status: Sampled</p>

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DB 94	
	Air Quality Class: Ideal
May 2021	Date Sampled: 1 <sup>st</sup> June 2021 Sample Status: Sampled Air Quality Class: Ideal
June 2021	Date Sampled: 19 <sup>th</sup> July 2021 Sample Status: Sampled Air Quality Class: Ideal
July 2021	Date Sampled: 17 <sup>th</sup> August 2021 Sample Status: Sampled Air Quality Class: Ideal
August 2021	Date Sampled: 14 <sup>th</sup> September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 11 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 9 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal

DB 94	
December 2021	Date Sampled: 18 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 95	
Location: 24°38'3.48"S, 27°18'54.13"E Farm: NA Description: Along D727 dirt road	
March 2021	Date Installed: 29 <sup>th</sup> March 2021
April 2021	Date Sampled: 4 <sup>th</sup> May 2021

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DB 95	
	<p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
May 2021	<p>Date Sampled: 1<sup>st</sup> June 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Exceeded Residential Limit</p>
June 2021	<p>Date Sampled: 19<sup>th</sup> July 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
July 2021	<p>Date Sampled: 17<sup>th</sup> August 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Exceeded Residential Limit</p>
August 2021	<p>Date Sampled: 14<sup>th</sup> September 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
September 2021	<p>Date Sampled: 11<sup>th</sup> October 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
October 2021	<p>Date Sampled: 9<sup>th</sup> November 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
November 2021	<p>Date Sampled: 9<sup>th</sup> December 2021</p> <p>Sample Status: Sampled</p>

DB 95	
	Air Quality Class: Ideal
December 2021	Date Sampled: 17 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 96	
Location: 23°41'25.22"S, 27°34'18.42"E  Farm: NA  Description: Along unnamed dirt road on the fence line of Exxaro coal mine	
March 2021	Access Restrictions

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DB 96	
April 2021	Date Installed: 6 <sup>th</sup> May 2021
May 2021	Date Sampled: 3 <sup>rd</sup> June 2021 Sample Status: Sampled Air Quality Class: Ideal
June 2021	Date Sampled: 20 <sup>th</sup> July 2021 Sample Status: Sampled Air Quality Class: Ideal
July 2021	Date Sampled: 19 <sup>th</sup> August 2021 Sample Status: Sampled Air Quality Class: Ideal
August 2021	Date Sampled: 16 <sup>th</sup> September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 11 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 9 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal

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DB 96	
December 2021	Date Sampled: 19 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 97	
Location: 24°26'15.46"S, 27°22'29.41"E  Description: Along Dirt road between Zondagsuil 137 KQ and Diepkuil 135 KQ portion 1	
March 2021	Date Installed: 29 <sup>th</sup> March 2021
April 2021	Date Sampled: 4 <sup>th</sup> May 2021

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DB 97	
	<p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
May 2021	<p>Date Sampled: 1<sup>st</sup> June 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
June 2021	<p>Date Sampled: 19<sup>th</sup> July 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
July 2021	<p>Date Sampled: 17<sup>th</sup> August 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
August 2021	<p>Date Sampled: 14<sup>th</sup> September 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
September 2021	<p>Date Sampled: 11<sup>th</sup> October 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
October 2021	<p>Date Sampled: 9<sup>th</sup> November 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
November 2021	<p>Date Sampled: 9<sup>th</sup> December 2021</p> <p>Sample Status: Sampled</p>

DB 97	
	Air Quality Class: Exceeded Residential Limit
December 2021	Date Sampled: 18 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 98	
Location: 24°26'48.84"S, 27°18'57.38"E Farm: Buffelsvley 127 KQ Description: Next to workshop/ homestead	
March 2021	Date Installed: 29 <sup>th</sup> March 2021

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DB 98	
April 2021	Date Sampled: 4 <sup>th</sup> May 2021 Sample Status: Sampled Air Quality Class: Ideal
May 2021	Date Sampled: 1 <sup>st</sup> June 2021 Sample Status: Sampled Air Quality Class: Ideal
June 2021	Date Sampled: 19 <sup>th</sup> July 2021 Sample Status: Sampled Air Quality Class: Ideal
July 2021	Date Sampled: 17 <sup>th</sup> August 2021 Sample Status: Sampled Air Quality Class: Ideal
August 2021	Date Sampled: 14 <sup>th</sup> September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 11 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 9 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: NA

DB 98	
	<p>Sample Status: <b>Not Sampled – No Access</b></p> <p>Air Quality Class: NA</p>
December 2021	<p>Date Sampled: NA</p> <p>Sample Status: <b>Not Sampled – No Access</b></p> <p>Air Quality Class: NA</p>
January 2022	<p>Date Sampled: 14<sup>th</sup> February 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
February 2022	<p>Date Sampled: 15<sup>th</sup> March 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
March 2022	<p>Date Sampled: 13<sup>th</sup> April 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>

DB 99	
<p>Location: 24°32'48.86"S, 27°17'24.55"E</p> <p>Farm: Stratford 462 KQ</p> <p>Description: Along D769 dirt road</p>	

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DB 99	
March 2021	Date Installed: 29 <sup>th</sup> March 2021
April 2021	Date Sampled: 4 <sup>th</sup> May 2021 Sample Status: Sampled Air Quality Class: Exceeded residential limits
May 2021	Date Sampled: 1 <sup>st</sup> June 2021 Sample Status: Sampled Air Quality Class: Exceeded both the Residential and Industrial limits
June 2021	Date Sampled: 19 <sup>th</sup> July 2021 Sample Status: Sampled Air Quality Class: Exceeded residential limits
July 2021	Date Sampled: 17 <sup>th</sup> August 2021 Sample Status: Sampled Air Quality Class: Exceeded both the Residential and Industrial limits
August 2021	Date Sampled: 14 <sup>th</sup> September 2021 Sample Status: Sampled Air Quality Class: Exceeded the Residential limit
September 2021	Date Sampled: 11 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Exceeded the Residential limit
October 2021	Date Sampled: 9 <sup>th</sup> November 2021 Sample Status: Sampled

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DB 99	
	Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 18 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Exceeded the Residential limit.
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Exceeded the Residential Limit.
February 2022	Date Sampled: 15 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Exceeded the Residential Limit.

## DB 100

Location: 24°35'5.76"S, 27°18'49.94"E

Farm: Mooivalei 342 KQ – Portion 1

Description: Near the D1649 Road



March 2021

Date Installed: 29<sup>th</sup> March 2021

April 2021

Date Sampled: 4<sup>th</sup> May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1<sup>st</sup> June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 19<sup>th</sup> July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 17<sup>th</sup> August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 14<sup>th</sup> September 2021

Sample Status: Sampled

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DB 100	
	Air Quality Class: Ideal
September 2021	Date Sampled: 11 <sup>th</sup> October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 9 <sup>th</sup> November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 <sup>th</sup> December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 18 <sup>th</sup> January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 <sup>th</sup> March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled Air Quality Class: Ideal

ES01

Location: 24°34'22.26"S, 27°18'33.97"E

Description: Primary School



June 2021

Not installed due to insurance delays and time constraints

July 2021

Installed: 19<sup>th</sup> August 2021

August 2021

Date Sampled: 16<sup>th</sup> September 2021

Sample Status: Sampled

September 2021

Date Sampled: 11<sup>th</sup> October 2021

Sample Status: Sampled

October 2021

Date Sampled: 9<sup>th</sup> November 2021

Sample Status: Sampled

November 2021

Date Sampled: 8<sup>th</sup> December 2021

Sample Status: Sampled

December 2021

Date Sampled: 18<sup>th</sup> January 2022

Sample Status: Sampled

January 2022

Date Sampled: 14<sup>th</sup> February 2022

Sample Status: Sampled

February 2022

Date Sampled: 15<sup>th</sup> March 2022


Sample Status: Sampled

ES01	
March 2022	Date Sampled: 13 <sup>th</sup> April 2022  Sample Status: Sampled

ES02	
Location: 23°41'51.31"S, 27°34'6.52"E  Description: – Eskom - Medupi Power Station	
June 2021	Date Installed: 19 <sup>th</sup> July 2021
July 2021	Date Sampled: 20 <sup>th</sup> August 2021  Sample Status: Sampled
August 2021	Date Sampled: 14 <sup>th</sup> September 2021  Sample Status: Sampled
September 2021	Date Sampled: 13 <sup>th</sup> October 2021  Sample Status: Sampled
October 2021	Date Sampled: 10 <sup>th</sup> November 2021  Sample Status: Sampled
November 2021	Date Sampled: 9 <sup>th</sup> December 2021  Sample Status: Sampled
December 2021	Date Sampled: 19 <sup>th</sup> January 2022  Sample Status: Sampled

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ES02	
January 2022	Date Sampled: 15 <sup>th</sup> February 2022 Sample Status: Sampled
February 2022	Date Sampled: 16 <sup>th</sup> March 2022 Sample Status: Sampled
March 2022	Date Sampled: 14 <sup>th</sup> April 2022 Sample Status: Sampled

ES03	
<p>Location: 24°35'37.25"S, 27°17'43.45"E</p> <p>Farm: Mooivalei 342 KQ – Portion 1</p> <p>Description: Situated within the farmhouse property fence</p>	
June 2021	Date Installed: 19 <sup>th</sup> July 2021
July 2021	Date Sampled: 20 <sup>th</sup> August 2021 Sample Status: Sampled
August 2021	Date Sampled: 14 <sup>th</sup> September 2021 Sample Status: Sampled
September 2021	Date Sampled: 11 <sup>th</sup> October 2021 Sample Status: Sampled
October 2021	Date Sampled: 9 <sup>th</sup> November 2021 Sample Status: Sampled

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ES03	
November 2021	Date Sampled: 8 <sup>th</sup> December 2021 Sample Status: Sampled
December 2021	Date Sampled: 18 <sup>th</sup> January 2022 Sample Status: Sampled
January 2022	Date Sampled: 14 <sup>th</sup> February 2022 Sample Status: Sampled
February 2022	Date Sampled: 15 <sup>th</sup> March 2022 Sample Status: Sampled
March 2022	Date Sampled: 13 <sup>th</sup> April 2022 Sample Status: Sampled




## APPENDIX C – INDEPENDENT FORM AND CV

### STATEMENT OF OBJECTIVENESS AND COMPETENCE

The author(s) of this document hereby declare that he/she/they:

- Act as an independent and objective consultant/s;
- Does not have any financial interest in the undertaking of this project or projects, other than remuneration for the work performed in terms of relevant legislation;
- Has and will not have a vested interest in the current and/or proposed activity, nor will engage in any directly conflicting interest associated with this project;
- Undertakes to function transparently and provide any information to a competent authority if compelled to do so by law or by consent of the involved parties;
- Based on the information provided by the client, due diligence studies or any other source or sources, have presented the results, discussion and conclusion, as applicable to the project concerned, to the best of his/her/their professional ability;
- Reserves the right to modify aspects pertaining to this study should additional information become available through ongoing research and further work on the relevant field/s;
- Undertakes to have the work peer reviewed on a regular basis by a competent specialist in the field/s of study;
- Is duly qualified and experienced to undertake the work at hand; and
- Adheres to the code of conduct as stipulated under Section 28 (3) of the Natural Scientific Professions Act 27 of 2003 as observed by the South African Council for Natural Scientific Professions (SACNASP).
- Signed by Anton Botha:



Date: 29-05-2022

Environmental Auditor	Relevant expertise
Anton Botha Pr. Sci.Nat Registration No 122440	Has completed a B.Sc. in Environmental Sciences, followed by a B.Sc. (Hons) and M.Sc. specialising in Hydrogeology and Hydrology. Anton has comprehensive experience and knowledge on compliance monitoring, project management and specialist reporting. As an environmental consultant, Anton has provided numerous environmental monitoring <b>assessments, specialist input services, mine closure quantum's and environmental audits.</b> monitoring assessments, specialist input services and environmental audits.



## ENVIRONMENTAL ASSURANCE (PTY) LTD

Anton Botha

ENVIRONMENTAL CONSULTANT & DIVISIONAL MANAGER

394 Tram Street, New Muckleneuk, Pretoria, 0181

T : 012 460 9768 ; M : 083 555 4354; F : 012 460 3071 ; E mail : anton@envass.co.za

Date of Birth : 25 July 1991; Place of Birth : South Africa

Ethnic Group and Gender : White Male ; Disabilities : None

### AREAS OF EXPERTISE

- Compliance Monitoring
- Data Analysis & Interpretation
- Potable, Ground and Surface Water Quality
- Compliance Monitoring
- Data Analysis & Interpretation
- Hydrogeology
- Ambient Air and Particulate Matter Quality
- Water and Salt Balance Development and Assessment
- Hydrogeology
- Ambient Air and Particulate Matter Quality
- Customer Relationships
- Site Audits and Inspections
- Field Sampling of dust, soil, ambient air and water
- Customer Relationships
- Site Audits and Inspections

### CAREER HISTORY

Employer  
Period  
Position  
Responsibilities

#### ENVIRONMENTAL ASSURANCE (PTY) LTD

Anton holds a B.Sc. in Environmental Sciences, followed by a B.Sc. (Hons) and M.Sc. specializing in Hydrogeology and Hydrology. He has comprehensive experience and knowledge on compliance monitoring, project management and specialist reporting. As an environmental consultant, Anton has provided several environmental monitoring assessments, audits, mine closure assessments and specialist input services.

#### BUSINESS UNIT HEAD: COMPLIANCE MONITORING, SPECIALIST AND MINE CLOSURE Environmental Consultant and Auditor

October 2018 – Current

- Develop and maintain environmental compliance monitoring programmes in conjunction with site audits and assessments. Monitoring co-ordination and planning of all relevant projects. Maintaining data and results from monitoring programmes and databases. Conduct compliance audits, determine compliance ratings and report on conditions. Determining financial provision of mine closures. Compile and overseeing reports on water-, soil-, air-quality and site findings, with interpretation of results and possible recommendations. Maintain and build customer relationships with guidance on environmental matters and updates on environmental legislation. Market to potential clients with site specific marketing material

### EDUCATION AND QUALIFICATIONS

North-West University; Masters (MSc.) Hydrogeology - 2018  
North-West University; Honours BSc. Hydrogeology and Hydrology - 2013  
North-West University; Degree BSc. Environmental Science Geology and Geography – 2012

### PROFESSIONAL STATUS Registration Membership

Registered as a Professional Natural Scientist (122440) with the South African Council of Natural Scientific Professions (SACNASP)

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PROJECT EXPERIENCE

PROJECT DESCRIPTION	CLIENT
Water and Air Quality Monitoring programme co-ordination, management and reporting	Afrimat Lyttleton
	Afrimat Delfsand
	Assmang Black Rock
	Assmang Dwarsrivier
	Barloworld Slurry
	Blue Diamond Mine
	Exxaro Base Metals Zincor
	Lonmin Marikana
	Kimberly Ekapa Mining
	Kimberley Ekapa Mining Joint Venture
	Kudumane Manganese Resources
	Mooikloof Heights
	Polokwane Smelter
	PPC Dwaalboom
	PPC Slurry
	Rolfes Silica
	TC Smelter
	Makoya Binkpan
	Makoya Highveld
	SACMH Umlabu
	SACMH Voorslag
	Ocon Brick
	Group 5 Everite
	Locksand
	Samancor WCM
	Samancor ECM
	Rosema Olifantsfontein
	Rosema Delmas
	Sublime
	SABrix Boekenhoutkloof
	SABrix Zandfontein
	Tubatse Chrome
	Infrabuild
	Federale Stene
	Tronox
	Canyon Coal
	Lynca Meats
	Ankerlig
	Lafarge
	SACMH Voorslag
Water and Salt Balances	PPC Dwaalboom
	Kimberly Ekapa Mining (De Beers)
	SABrix Zandfontein
	SABrix Boekenhoutkloof
	Lynca Meats
	Ilangabi Brikor Plant 1
	Kudumane Manganese
	Tronox Namakwa Sands Smelter
Specialist Noise, Air, Odour Assessments	Numerous
Odour Assessment	Lafarge Geocycle
Regulation 34 EMPr Audits	Several

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Technical AEL, WML and WUL Audits	Numerous
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**herewith certifies that**

**Anton Botha**

Registration Number: 122440

**is a registered scientist**

in terms of section 20(3) of the Natural Scientific Professions Act, 2003  
(Act 27 of 2003)

in the following field(s) of practice (Schedule 1 of the Act)

Environmental Science (Professional Natural Scientist)

**Effective 11 September 2019**

**Expires 31 March 2023**



A handwritten signature in black ink, appearing to read 'Botha'.

Chairperson

A handwritten signature in black ink, appearing to read 'R. J. J. J.'.

Chief Executive Officer



To verify this certificate scan this code

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## STATEMENT OF OBJECTIVENESS AND COMPETENCE

*The author(s) of this document hereby declare that he/she/they:*

- Act as an independent and objective consultant/s;
- Does not have any financial interest in the undertaking of this project or projects, other than remuneration for the work performed in terms of relevant legislation;
- Has and will not have a vested interest in the current and/or proposed activity, nor will engage in any directly conflicting interest associated with this project;
- Undertakes to function transparently and provide any information to a competent authority if compelled to do so by law or by consent of the involved parties;
- Based on the information provided by the client, due diligence studies or any other source or sources, have presented the results, discussion and conclusion, as applicable to the project concerned, to the best of his/her/their professional ability;
- Reserves the right to modify aspects pertaining to this study should additional information become available through ongoing research and further work on the relevant field/s;
- Undertakes to have the work peer reviewed on a regular basis by a competent specialist in the field/s of study;
- Is duly qualified and experienced to undertake the work at hand; and
- Adheres to the code of conduct as stipulated under Section 28 (3) of the Natural Scientific Professions Act 27 of 2003 as observed by the South African Council for Natural Scientific Professions (SACNASP).
- Signed by Damon Nell:



Date: 27-05-2022

Environmental Auditor	Relevant expertise
Damon Nell Cand.Sci.Nat Registration No 124378	Has completed a B.Sc. in Environmental Sciences, followed by a B.Sc. (Hons) in Plant Science. Damon has comprehensive experience and knowledge on compliance monitoring, project management and specialist reporting. As an environmental consultant, Damon has provided numerous environmental monitoring assessments, and specialist input services.



## ENVIRONMENTAL ASSURANCE (PTY) LTD

Damon Nell

### ENVIRONMENTAL CONSULTANT & FIELD TECHNICIAN

394 Tram Street, New Muckleneuk, Pretoria, 0181

T : 012 460 9768 ; M : 072 506 9692; F : 012 460 3071 ; E mail : damon@envass.co.za

Date of Birth : 01 June 1997; Place of Birth : South Africa

Ethnic Group and Gender : White Male ; Disabilities : None

#### AREAS OF EXPERTISE

- Compliance Monitoring
- Ambient Air and Particulate Matter Quality
- Customer Relationships
- Data Analysis & Interpretation
- Potable, Ground and Surface Water Quality
- Field Sampling of dust, soil, ambient air and water
- Water and Salt Balance Development and Assessment

#### CAREER HISTORY

Employer  
Period  
Position  
Responsibilities

#### ENVIRONMENTAL ASSURANCE (PTY) LTD

Damon holds a B.Sc. in Environmental Sciences, followed by a B.Sc. (Hons) in Plant Science from the University of Pretoria. He has comprehensive experience and knowledge on compliance monitoring, project management and specialist reporting. As an environmental consultant, Damon has provided several environmental monitoring assessments, and specialist input services.

Environmental Consultant and Field Technician.

February 2021 – Current

- Conduct specialist studies and reports in the field of Visual Impacts, and Terrestrial Vegetation, and conduct compliance monitoring with regards to surface water, ground water, air quality and site findings, with interpretation of results and possible recommendations. Maintain and build customer relationships with guidance on environmental matters and updates on environmental legislation. Market to potential clients with site specific marketing material.

#### EDUCATION AND QUALIFICATIONS

University of Pretoria: Honours (Hons) BSc. Plant Science and Plant Diversity – 2019

University of Pretoria: Degree BSc. Environmental Science - 2018

#### PROFESSIONAL STATUS

Registration  
Membership

Registered as a Candidate Natural Scientist (124378) with the South African Council of Natural Scientific Professions (SACNASP)

#### PROJECT EXPERIENCE

PROJECT DESCRIPTION	CLIENT
Water and Air Quality Monitoring program reporting	Tronox Fairbreeze
	Tronox Hillendale
	Hercules Bricks
	Sublime
	Silica Quartz

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	SA Brix
	Rosema
	Victoria Bricks
Specialist Visual Impact and Vegetation Assessments	Samancor Ferrometals
	Goldfields – Deep South
	Samancor Eastern Chrome Mines
	Kephri Innovations





**herewith certifies that**

**Damon Travis Nell**

Registration Number: 124378

**is a registered scientist**

in terms of section 20(3) of the Natural Scientific Professions Act, 2003  
(Act 27 of 2003)

in the following field(s) of practice (Schedule 1 of the Act)

Ecological Science (Candidate Natural Scientist)  
Environmental Science (Candidate Natural Scientist)  
Botanical Science (Candidate Natural Scientist)

Effective **9 September 2020**

Expires **31 March 2023**



Chairperson

Chief Executive Officer

To verify the certificate scan the code



## APPENDIX D – PROPOSED CONSTRUCTION MONITORING PROGRAMME

The development and implementation of an air quality monitoring programme is considered to address Sub-Section 1 of the National Environmental Act (NEMA) (Act 107 of 1998) Section 28 requirements related to the duty of care and remediation of environmental damage which includes: *“Every person who causes, has caused or may cause significant pollution or degradation of the environment must take reasonable measures to prevent such pollution or degradation from occurring, continuing or recurring, or, in so far as such harm to the environment is authorised by law or cannot reasonably be avoided or stopped, to minimise and rectify such pollution or degradation of the environment.”*

The South African Bureau of Standards (SABS), in collaboration with DEA, established ambient air quality standards for criteria pollutants. The National Ambient Air Quality Standards (Republic of South Africa, 2009a and 2012) provide standards for ambient air quality in terms of criteria pollutants and permitted frequency of exceedances.

As construction of the proposed development is expected to give rise to emissions, especially total suspended load in the atmosphere, thus it is recommended that an ambient air quality monitoring programme be implemented during the construction phase. The data can be utilised to record compliance to Government Notice Regulation 827 (published in terms of NEMAQA, Act 39 of 2004) or the South African National Standards 1929:2011 (Ambient Air Quality – limits for common pollution).

### AAE-1. AIR QUALITY MONITORING PROGRAMME

The monitoring programme design included a comprehensive desktop review focussed on summarising all required monitoring, analysis and reporting requirements based on the Government Notice 827 (National Dust Control Regulations) of the National Environmental Management: Air Quality Act 39 of 2004, as published in the Government Gazette (No. 36974), 1 November 2013.

#### AE-1.1 AIR QUALITY MONITORING, ANALYSIS AND REPORTING

##### AE-1.1.1 Monitoring Localities

It is recommended that the current implemented monitoring programme be selectively continued during the construction phase in order to adequately determine possible emission impacts from the activities. It is however additionally recommended that:

- If air nuisance conditions are present or either internal/external complaints received, active indicative monitoring be implemented and air quality conditions determined.

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Table 13: Proposed Monitoring Locality and Frequency

Locality	X Co-ordinate	Y-Co-ordinate	Frequency
DB01	23°40'41.16"S	27°36'4.24"E	To be monitored selectively on a monthly basis <u>within the area where construction is present.</u>
DB02	23°40'52.25"S	27°36'2.03"E	
DB03	23°41'37.30"S	27°33'44.10"E	
DB04	23°41'57.80"S	27°32'48.26"E	
DB05	23°42'13.03"S	27°31'52.68"E	
DB06	23°42'29.97"S	27°30'32.64"E	
DB07	23°42'32.26"S	27°29'48.38"E	
DB08	23°42'43.21"S	27°27'48.78"E	
DB09	23°42'55.98"S	27°27'30.40"E	
DB10	23°43'28.90"S	27°26'41.33"E	
DB11	23°44'4.06"S	27°25'46.60"E	
DB12	23°44'51.26"S	27°25'19.67"E	
DB13	23°45'22.39"S	27°24'58.35"E	
DB14	23°46'6.97"S	27°25'27.40"E	
DB15	23°46'41.92"S	27°25'52.99"E	
DB16	23°47'39.91"S	27°25'39.16"E	
DB17	23°49'17.37"S	27°25'15.13"E	
DB18	23°50'5.11"S	27°25'4.54"E	
DB19	23°50'36.53"S	27°24'56.77"E	
DB20	23°51'5.81"S	27°24'49.59"E	
DB21	23°51'43.25"S	27°24'40.22"E	
DB22	23°52'22.70"S	27°24'31.05"E	
DB23	23°53'36.73"S	27°24'13.40"E	
DB24	23°53'39.51"S	27°24'12.55"E	
DB25	23°54'1.90"S	27°24'6.76"E	
DB26	23°54'46.08"S	27°23'56.64"E	
DB27	23°55'22.69"S	27°23'47.77"E	
DB28	23°56'29.84"S	27°23'31.71"E	
DB29	23°57'11.41"S	27°23'28.14"E	
DB30	23°57'58.79"S	27°23'37.97"E	
DB31	23°58'36.77"S	27°23'44.50"E	
DB32	23°59'45.59"S	27°23'58.25"E	
DB33	24° 0'4.67"S	27°24'1.95"E	
DB34	24° 0'37.82"S	27°24'8.36"E	
DB35	24° 0'51.33"S	27°24'10.07"E	
DB36	24° 1'3.54"S	27°24'12.35"E	
DB37	24° 1'7.07"S	27°24'13.15"E	
DB38	24° 1'34.37"S	27°24'18.32"E	
DB39	24° 2'5.56"S	27°24'24.99"E	
DB40	24° 2'29.74"S	27°24'28.91"E	
DB41	24° 2'40.69"S	27°24'31.20"E	
DB42	24° 2'46.02"S	27°24'32.19"E	
DB43	24° 3'21.38"S	27°24'37.93"E	
DB44	24° 4'29.95"S	27°24'51.86"E	
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Locality	X Co-ordinate	Y-Co-ordinate	Frequency
DB45	24° 4'53.87"S	27°24'55.26"E	
DB46	24° 5'48.56"S	27°25'8.99"E	
DB47	24° 6'2.39"S	27°25'12.90"E	
DB48	24° 6'33.52"S	27°25'21.12"E	
DB49	24° 7'11.42"S	27°25'32.63"E	
DB50	24° 7'50.30"S	27°25'43.01"E	
DB51	24° 8'36.82"S	27°25'56.47"E	
DB52	24° 9'10.22"S	27°26'5.85"E	
DB53	24° 9'23.38"S	27°26'10.00"E	
DB54	24° 9'56.57"S	27°26'19.10"E	
DB55	24°10'32.51"S	27°26'26.49"E	
DB56	24°10'55.15"S	27°26'36.17"E	
DB57	24°11'38.61"S	27°26'48.79"E	
DB58	24°11'49.30"S	27°26'51.53"E	
DB59	24°12'25.42"S	27°26'59.45"E	
DB60	24°13'6.00"S	27°26'59.07"E	
DB61	24°14'34.19"S	27°26'58.48"E	
DB62	24°14'49.64"S	27°26'58.86"E	
DB63	24°15'19.44"S	27°26'58.33"E	
DB64	24°16'6.23"S	27°26'58.26"E	
DB65	24°16'42.57"S	27°26'57.57"E	
DB66	24°17'26.82"S	27°26'56.01"E	
DB67	24°18'14.46"S	27°26'56.97"E	
DB68	24°18'49.52"S	27°26'57.63"E	
DB69	24°19'31.03"S	27°26'56.52"E	
DB70	24°20'4.26"S	27°26'56.14"E	
DB71	24°20'45.70"S	27°26'55.87"E	
DB72	24°21'48.85"S	27°26'55.81"E	
DB73	24°23'9.52"S	27°26'54.85"E	
DB74	24°23'21.10"S	27°26'33.71"E	
DB75	24°23'31.60"S	27°26'13.03"E	
DB76	24°23'53.46"S	27°25'19.77"E	
DB77	24°24'24.61"S	27°24'3.45"E	
DB78	24°24'48.42"S	27°24'9.57"E	
DB79	24°25'29.93"S	27°24'23.06"E	
DB80	24°25'33.45"S	27°24'13.50"E	
DB81	24°25'47.88"S	27°23'10.20"E	
DB82	24°26'31.14"S	27°21'39.92"E	
DB83	24°27'9.88"S	27°20'11.67"E	
DB84	24°28'20.86"S	27°17'27.36"E	
DB85	24°30'0.19"S	27°16'58.48"E	
DB86	24°31'38.11"S	27°16'29.83"E	
DB87	24°33'53.16"S	27°18'16.95"E	
DB88	24°34'14.79"S	27°18'36.10"E	
DB89	24°34'24.19"S	27°18'35.24"E	

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Locality	X Co-ordinate	Y-Co-ordinate	Frequency
DB90	24°35'35.70"S	27°17'45.31"E	
DB91	24°35'57.49"S	27°17'53.39"E	
DB92	24°36'25.02"S	27°17'49.23"E	
DB93	24°36'51.37"S	27°18'27.13"E	
DB94	24°37'18.10"S	27°18'45.97"E	
DB95	24°38'3.48"S	27°18'54.13"E	
DB96	23°41'52.53"S	27°33'51.29"E	
DB97	24°26'15.46"S	27°22'29.41"E	
DB98	24°27'47.08"S	27°18'42.15"E	
DB99	24°32'48.86"S	27°17'24.55"E	
DB100	24°35'5.76"S	27°18'49.94"E	
PM01	24°34'24.25"S	27°18'35.18"E	
PM02	23°41'52.97"S	27°33'51.71"E	
PM03	24°35'38.53"S	27°17'45.27"E	

### AE-1.1.2 Air Quality Analysis Parameters

As construction of the proposed development will result in increased emissions the following parameters and point source variables have been identified for air quality monitoring taking into consideration proper mitigation measure are implemented to reduce emissions.

Table 14: Proposed Air Quality Analysis Package

Proposed Analysis	
Analysis / Parameters	Frequency
Insoluble Settleable Particles	To be monitored on a monthly basis <i>within the area where construction is present.</i>
Particulate Matter (PM): <ul style="list-style-type: none"> <li>• PM<sub>1</sub>;</li> <li>• PM<sub>2.5</sub>;</li> <li>• PM<sub>4</sub>;</li> <li>• PM<sub>10</sub>; and</li> <li>• Total Suspended Particles (TSP).</li> </ul>	Additional area assessments to be completed at the construction camp or surrounding communities when nuisance impacts or complaints are noted.

### AE-1.1.3. Reporting

It is recommended that minimum reporting comprise of collated data sheets inclusive of sampling information and analysis results in accordance with the monitored frequency. In order to ensure legal compliance requirements, the following information is recommended to be included into the reporting function:

- Information on the location of sampling sites:
  - Sampling site;
  - Locality name;
  - Latitudinal and longitudinal coordinates,
  - Details of sampling point;

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- Date of sampling;
- Time of sampling;
- Name of the sampler;
- General environment and climatic conditions;
- Any additional information which will affect the results of the analysis
- Topographic map and areas (Geographic information System);
- Monitoring protocol and procedures;
- Chain of custody information;
- Analysis and interpretation of the results obtained against applicable limits and comparison against previous and historical results;
- Identification of impact concerns, and problems noted; and
- Identification of trends and abnormalities.

#### AE-1.1.4 Summarised Proposed Monitoring Structure And Schedule

The following schedule and programme is currently proposed for the construction phase:

Table 15: Proposed Monitoring Schedule

Monitoring Resource	Number of Localities	Proposed Analysis	Frequency
Construction Phase			
Passive Gravimetric Dust Fallout Monitoring	Dust Monitoring Localities be installed as dependant on the current construction area. A minimum of four (4) localities are to be installed and monitored taking into account the four (4) main wind directions (North, East, South and West)	Insoluble Settleable Particles	Monthly
Operational Phase			
Indicative Active Air Quality	Active monitoring to be completed with either a handheld meter or installed E-Sampler as related to the construction camp or surrounding community.	Particulate Matter (PM): <ul style="list-style-type: none"> <li>• PM1;</li> <li>• PM2.5;</li> <li>• PM4;</li> <li>• PM10; and</li> <li>• Total Suspended Particles (TSP).</li> </ul>	When complaints are received or emission nuisance noted.

## AE-2. AIR QUALITY MONITORING PROTOCOL

In order to ensure proper sample collection and analysis accuracy, field sampling, chain of custody and analysis protocols are provided and described below.

### AE-2.1 FIELDWORK GUIDELINES

According to Government Notice 827 (NEMAQA, act 39 of 2004), dust monitoring should be done in accordance with ASTM D1739-98(2017) Standard Test Method for Collection and Measurement of Dust fall (Settleable Particulate Matter) and the South African National Standards 1929:2011 (Ambient Air Quality – limits for common pollution). Dust buckets of a standard size and shape will be prepared and set up at locations on the borders of the property, relating to the main compass points, so that dust can settle in them for periods of 30+/-2 days. The dust buckets will be sealed on site and sent to a laboratory for analysis. The masses of the water-soluble and –insoluble components of the material collected will then be determined and results will be reported on as mg/m<sup>2</sup>/day. This methodology is described according to South African National Standards 1929:2011 and the American Society for Testing and Materials (ASTM) Designation: D 1739-98 (2017). The results for this method of testing are obtained by gravimetric weighing. The apparatus required for this type of monitoring include open-top buckets/containers no less than 150mm in diameter with a height no less than twice its diameter. The buckets must be placed on a stand at a height of 2+/-0.2m above the ground.

### AE-2.2 LABORATORY REQUIREMENTS

All samples should be transported in line with SANAS requirements and submitted to an independent SANAS accredited laboratory (as required by the National Water Act, Act no 36 of 1998) (General Authorisations in terms of Section 39, as amended in 2004) within 48 hours in order to ensure representative chemical and bacteriological quality. It is recommended that a Chain of Custody Procedure (Tracking of samples) related to the collection, transportation and delivery (laboratory) be developed and implemented. Analysis of the samples are done in accordance with the ISO/IEC 17025:2005 standards by an accredited independent laboratory (SANAS) inclusive of:

- Calibration of monitoring equipment and maintenance to ensure accurate data;
- Provide error values in terms of accuracy and precisions of the analytical results; and
- Ensure compliance with applicable legislation, standards and guidelines, including on advising on any changes in legislation.

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