DOORNEKRAAL MINE ON A PORTION OF PORTION 5 OF THE FARM DOORNEKRAAL NO 830, MALMESBURY, SWARTLAND DC, WESTERN CAPE PROVINCE

ENVIRONMENTAL AUDIT REPORT



| DMR REFERENCE NUMBER: | WC30/5/1/3/2/10115MP | | |
|-----------------------|----------------------|--|--|
| AUDIT PERIOD: | APRIL 2021 | | |

PREPARED FOR:

Virtigo Properties 33 (Pty) Limited Contact Person: Jannie Burger

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PREPARED BY:

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7129





1. PROJECT SPECIFIC DETAIL

| ITEM | MINING PERMIT HOLDER |
|----------------------|---|
| Company Name | Virtigo Properties 33 (Pty) Limited |
| Contact Person | Mr. Jannie Burger |
| Tel Number | 022 – 1250 042/3 |
| Cell Number | 082 453 4345 |
| E-mail Address | jannie@virtigo.co.za |
| Postal Address | P.O. Box536 Wellington 7654 |
| ITEM | CONSULTANT DETAIL |
| Company Name | Greenmined Environmental |
| Contact Person | Ms. Murchellin Saal |
| Tel Number | 021 851 2673 |
| Cell Number | 079 979 8766 |
| E-mail Address | murchellin.s@greenmined.co.za |
| Postal Address | Postnet Suite 62 Private Bag x15 Somerset West 7129 |
| ITEM | LOCATION AND AREA INFORMATION |
| Site Name | Doornekraal |
| Property Description | Farm Doornekraal No 830 |
| Location | The location is situated on a 4.9 ha area on a portion of portion 5 of the Farm Doornekraal No 830, Malmesbury, Swartland DC, Western Cape Province Approximately 10km south of Malmesbury. |
| Size of Mining Area | 4.9 ha |



TABLE OF CONTENTS

| 1. | PROJECT SPECIFIC DETAIL | 2 |
|----|---|----|
| | ENVIRONMENTAL AUDIT REPORT | |
| | | |
| | PROJECT DETAIL | |
| | DETAIL OF AUDITOR | |
| | SCOPE & PURPOSE OF ENVIRONMENTAL AUDIT | |
| | ASSUMPTIONS, UNCERTAINTIES OR GAPS IN KNOWLEDGE | 5 |
| | LOCATION | |
| | PROJECT DESCRIPTION | |
| | SITE CONDITIONS | 6 |
| | REPORTABLE ENVIRONMENTAL INCIDENTS | |
| | ADOPTED METHODOLOGY | 7 |
| | INSPECTION ASPECTS | |
| | COMMENTS OR COMPLAINTS RECEIVED FROM I&AP'S | |
| | AUDITING OF EA, EMPR AND REPORTING THEREOF | |
| | GENERAL REPORT | |
| | ECO SIGNATURE | 16 |
| | PHOTOGRAPHS: | 17 |



2. ENVIRONMENTAL AUDIT REPORT

PROJECT DETAIL

| Right Number: | WC30/5/1/3/2/10115MP | Date of commencement: | 26 February 2018 |
|----------------|----------------------------|-----------------------|------------------------------|
| Site name: | Doornekraal | Inspection date: | 30 April 2021 |
| Right Holder: | Virtigo Properties Pty Ltd | Other | Awaiting water authorisation |
| Report number: | 32 | authorisations: | |

<u>DETAIL OF AUDITOR</u> (APPENDIX 7 SUB-REGULATION 3(A) & (B)):

| results and findings are not favourable to the holder of the authorisation; I have expertise in conducting environmental compliance audits, including knowledge of the Act and regulations that have relevance to the activity; I will adhere to and comply with all responsibilities as indicated in the National Environmental Management Act and Environmental Impact Assessment Regulations. Regulations. I do not have and will not have any vested interest in the activity other than | ECO: | Murchellin Saal | | | |
|---|------------|---|--|--|--|
| I act as independent environmental control officer in this compliance audit; I will perform the work relating to the audit in an objective manner, even if the results and findings are not favourable to the holder of the authorisation; I have expertise in conducting environmental compliance audits, including knowledge of the Act and regulations that have relevance to the activity; I will adhere to and comply with all responsibilities as indicated in the National Environmental Management Act and Environmental Impact Assessment Regulations. I do not have and will not have any vested interest in the activity other than remuneration for work performed in terms of the Environmental Impact Assessment Regulations, 2014 (as amended 2017). | Expertise: | (GIS) geographic information system, mining right and permit applications and | | | |
| Signature of ECO Date: 30 April 2021 | | I act as independent environmental control officer in this compliance audit; I will perform the work relating to the audit in an objective manner, even if the results and findings are not favourable to the holder of the authorisation; I have expertise in conducting environmental compliance audits, including knowledge of the Act and regulations that have relevance to the activity; I will adhere to and comply with all responsibilities as indicated in the National Environmental Management Act and Environmental Impact Assessment Regulations. I do not have and will not have any vested interest in the activity other than remuneration for work performed in terms of the Environmental Impact Assessment Regulations, 2014 (as amended 2017). | | | |



SCOPE & PURPOSE OF ENVIRONMENTAL AUDIT

(APPENDIX 7 SUB-REGULATION 3(C)):

This environmental audit report was compiled in terms of the requirements of the NEMA EIA Regulations, 2014 (as amended 2017).

OBJECTIVE:

The objective of the environmental performance assessment (EPA) is to evaluate compliance of the operational activities with the Environmental Management Programme Report (EMPR) and Environmental Authorisation as approved by the Department of Mineral Resources.

INSPECTED AREAS:

The inspection included an assessment of the mining footprint area.

ASSUMPTIONS, UNCERTAINTIES OR GAPS IN KNOWLEDGE (APPENDIX 7 SUB-REGULATION 3(F)):

The assumptions made in this document, stem from specific information gathered during the site audit and background information gathered from the mining right holder. No uncertainties or gaps in knowledge could be identified that is applicable during this audit period.



LOCATION

| Site location: | The location is situated on a 4.9 ha area on a portion of portion 5 of the Farm Doornekraal No 830, Malmesbury, Swartland DC, Western Cape Province Approximately 10km south of Malmesbury. | | | |
|----------------|---|--|--|--|
| Site map: | | | | |
| | A 33°33'40.53"S 18°43'45.01"E | | | |
| Site | B 33°33'31.61"S 18°43'46.25"E | | | |
| coordinates: | C 33°33'32.78"S 18°43'54.09"E | | | |
| | D 33°33'38.30"S 18°43'53.29"E | | | |

PROJECT DESCRIPTION

The project involves mining on an area previously used for agriculture. Virtigo Properties 33 (Pty) Limited holds a mining permit to mine 4.9 ha of a portion of portion 5 of the Farm Doornekraal No 830, Malmesbury, Western Cape Province. The procedure entails strip mining of the proposed footprint area with an excavator that will load the sand directly onto trucks transporting the sand from the site to the clients. The products are sold to civil, building constructions and local authorities on demand within the Western Cape.

SITE CONDITIONS

Cold but still sunny weather conditions.



REPORTABLE ENVIRONMENTAL INCIDENTS

| Incident date: | | | | |
|-----------------|---|--|--|--|
| Incident no: | The site has a register in place in the event of incidents | | | |
| Incident: | The site has a register in place in the event of incidents. | | | |
| How addressed: | | | | |
| When addressed: | | | | |

<u>ADOPTED METHODOLOGY</u> (APPENDIX 7 SUB-REGULATION 3(D):

| COMPLIANCE SCORE | DESCRIPTION |
|------------------|---|
| 1 | Task not achieved |
| 2 | Task 20% achieved |
| 3 | Task 50% achieved |
| 4 | Task 80% achieved |
| 5 | Task 100% achieved in accordance with the EMP |

| NON-COMPLIANCE SCORE | DESCRIPTION |
|-------------------------|--|
| 1 | LOW – Mitigation not needed / mitigation measures to be maintained |
| 2 | MEDIUM – Mitigation should be considered |
| 3 | HIGH – Mitigation compulsory |



INSPECTION ASPECTS

| DESCRIPTION | COMPLIANCE SCORE | NON- COMPLIANCE SCORE | STATUS | COMMENTS |
|--|---------------------|-----------------------------|------------------------|--|
| LEGISLATION COMPLIANCE: | | | | |
| National Environmental Management Act, 1998 (Act No 107 of 1998) and the Environmental Impact Assessment Regulations, 2014 (as amended 2017) | 5 | - | Compliant | The competent authority deems the approved EMPR compatible with an Environmental Authorisation in terms of NEMA, 1998. |
| Copy of the EA and EMPR available on site | 5 | - | Compliant | Copy available in site file at the Doornekraal office. |
| Mineral and Petroleum Resources Development Act, 2002 (Act No 28 of 2002) | 3 | 3 | Partially Compliant | Open area still open and client instructed to rehabilitate the open area before commencing. |
| Mining permit available on site | 5 | - | Compliant | Available at the office |
| Department of Water and Sanitation)Act 1998 | 3 | 3 | Partially Compliant | Application submitted, awaiting feedback from DWS. Have been following up with DWS since submission date. |
| Mine Health and Safety Act , 1996 (Act no 29 of 1996) | 5 | - | Compliant | |
| Western Cape Land Use Planning Act, 2014 (Act No. 3 of 2014) | 5 | - | Compliant | Application Approved on 6 September 2018. |
| Swartland Municipality: Land Use Planning Bylaws, 2015 (No 264 of 2015) Swartland Municipal Spatial Development Framework | 5 | - | Compliant | The Swartland Municipality approved the application on the 18th of December 2017. |
| Western Cape Provincial Spatial Development Framework | 5 | - | Compliant | |
| National Environmental Management: Air Quality Act, 2004 (Act No 39 of 2004) | 5 | - | Compliant | |
| ASPECTS OF THE AFFECTED ENVIRONMENT TOPSOIL AND OVERBURDEN MANAGEMENT (FBAR PO | 6 NO 73,74) | | | |



| DESCRIPTION | COMPLIANCE SCORE | NON- COMPLIANCE SCORE | STATUS | COMMENTS |
|--|---------------------|-----------------------------|------------------------|--|
| Where applicable the first 300 mm of topsoil should be | | | Compliant | |
| removed in strips and stored along the boundary of the Stockpiling area | 5 | - | | |
| Temporary topsoil stockpiles should be kept free of weeds. | 4 | 1 | Partially Compliant | Weeds to be removed from some stockpiles. |
| Topsoil stockpiles are to be placed on a levelled area and measures should be implemented to safeguard the piles from being washed away in the event of heavy rains/storm water. | 5 | - | Compliant | All stockpiles are within the approved mining area. |
| Topsoil removed at right angles to the slope | 5 | - | Compliant | |
| Topsoil storage (heaps not exceeding 1.5 m) | 5 | - | Compliant | |
| Should natural vegetation not establish on the heaps within 6 months of stockpiling it should be planted with an indigenous grass species. | 5 | - | Compliant | |
| Storm- and runoff water should be diverted around the topsoil stockpiles and access roads to prevent erosion. | 5 | - | Compliant | |
| All activities are within the approved boundaries | 5 | - | Compliant | |
| VEGETATION (EMPR – PG 2,10,16,9) | | | | |
| No vegetation, alien species or other is dumped in areas with indigenous vegetation | 5 | - | Compliant | |
| Removal of invader or exotic plant species need to be done according to the weed and invader plant management plan. | 5 | - | Compliant | |
| Weed and invader plant management plan implemented | 5 | - | Compliant | |
| FAUNA (FBAR PG NO 109) | | <u></u> | , - | |
| All animals, birds and reptiles protected on site | 5 | - | Compliant | All animals, birds and reptiles protected on site |
| Operational areas daily inspected for signs of trapped animals | 5 | - | Compliant | Operational areas daily inspected for signs of trapped animals |
| AIR QUALITY AND NOISE | | | | |

April 2021



| DESCRIPTION | COMPLIANCE SCORE | NON- COMPLIANCE SCORE | STATUS | COMMENTS |
|--|---------------------|-----------------------------|-----------|---|
| Dust suppression implemented | 5 | - | Compliant | Dust suppression is implemented when needed. |
| Dust monitoring plan implemented | 5 | - | Compliant | Monthly dust monitoring is done, Thus far all results were within the allowance limits. |
| Dust monitoring equipment operational | 5 | - | Compliant | |
| Vehicles utilising the access road are adhering to the speed 40km/h limit | 5 | - | Compliant | The client has implemented a 20km/h speed restriction. |
| Employees and staff conducted themselves in an acceptable manner. | 5 | - | Compliant | |
| No load music permitted on site | 5 | - | Compliant | |
| All stockpiling vehicles must be equipped with silencers and maintained in a road worthy condition | 5 | - | Compliant | |
| ARCHAEOLOGICAL AND CULTURAL INTEREST | | | | |
| Archaeological and/or cultural remnants protected. | 5 | - | Compliant | No archaeological or cultural remnants were discovered during the audit period. |
| SURFACE AND STORM WATER MANAGEMENT (FBAR F | PG NO.106,107) | | | |
| Storm water diverted around the stockpiled area and access roads to prevent erosion | 5 | - | Compliant | |
| Vehicle repairs contained to workshop, or drip trays used during emergency break downs | 5 | - | Compliant | |
| Damming of water at the mining area prevented. | 5 | - | Compliant | |
| VISUAL EXPOSURE | | | - | |
| Is the contractor implementing good visual and housekeeping standards | 5 | - | Compliant | The site was in a very good visual state. |
| MANAGEMENT OF FUEL AND HAZARDOUS CHEMICAL | MANAGEMENT (F | AR PG NO 184) | | |
| Hazardous material stored in separate containers | 5 | - | | The client does not have hazardous material, however the bins are put in place. |
| Hazardous waste stored in a sealed, non-leaking containers | 5 | - | Compliant | Three sealed, non-leaking containers are present on site. |



| DESCRIPTION | COMPLIANCE SCORE | NON- COMPLIANCE SCORE | STATUS | COMMENTS |
|--|---------------------|-----------------------------|-----------|---|
| All containers containing hazardous closed and store only in approved areas | 5 | - | Compliant | |
| Always put drip trays under vehicles and machinery | 5 | - | Compliant | No vehicles are serviced on site, but drip trays will be used should it be necessary. |
| WASTE MANAGEMENT (FBAR PG NO 71,107,110,184) | | <u> </u> | | |
| Site free of day to day litter | 5 | - | Compliant | |
| Waste separated into labelled containers | 5 | - | Compliant | Three sealable bins are labelled and kept on site. |
| Non-biodegradable refuse such as glass bottles, plastic bags, metal scrap, etc, should be stored in a container with a closable lid. | 5 | - | Compliant | Three sealable bins are labelled and kept on site. |
| No waste stockpile area established outside the stockpiling site boundaries. | 5 | - | Compliant | All stockpiles are within the approved area. |
| Vehicle maintenance conducted within the service bay area. | 5 | - | Compliant | |
| POTABLE WATER AND ABLUTION FACILITIES | | · | | |
| Ablution facilities available on site more than 200m from a watercourse | 5 | - | Compliant | |
| Chemical toilets serviced regularly by an accredited waste handling contractor | 5 | - | Compliant | Proof of cleaning and invoicing kept on file. |
| FIRE MANAGEMENT | | | | |
| Firefighting equipment available on site | 5 | - | Compliant | |
| No open fires at mining area allowed | 5 | - | Compliant | |
| MINE AND EQUIPMENT MANAGEMENT (EMPR PG NO 4 | 0,120,186) | | | |
| Mining will be done in daylight hours | 5 | - | Compliant | |
| Mining conducted within approved footprint area | 5 | - | Compliant | The mining takes place within the fenced an approved permit area. |
| Incident register maintained on site | 5 | - | Compliant | Register is kept on file, up to date no incidents were recorded. |



| DESCRIPTION | COMPLIANCE SCORE | NON- COMPLIANCE SCORE | STATUS | COMMENTS |
|--|---------------------|-----------------------------|-----------|---|
| Emergency preparedness plan and register implemented on site | 5 | - | Compliant | |
| ACCESS ROADS, VEHICLES AND TRANSPORTING OF M | MATERIAL (EMPR | PG NO 138) | | |
| Access road maintained | 5 | - | Compliant | |
| Storm water should be diverted around the access roads to prevent erosion | 5 | - | Compliant | |
| EMPLOYEE AND SAFETY MANAGEMENT: (EMPR PG N | O 28,107) | <u>.</u> | | |
| Access road maintained | 5 | - | Compliant | |
| Storm water should be diverted around the access roads to prevent erosion. | 5 | - | Compliant | |
| EMPLOYEE AND SAFETY MANAGEMENT | | | | |
| Workers inducted and informed of EMPr conditions | 5 | - | Compliant | |
| Proof of training available | 5 | - | Compliant | Signatures of employees as proof of training kept in ECO file |
| No camping allowed on the mining area | 5 | - | Compliant | |
| Workers provided with PPE | 5 | - | Compliant | |
| Are there signs present, indicating the mining site and speed restrictions | 5 | - | Compliant | |
| Effective access control to prevent unauthorised entry. | 5 | - | Compliant | |
| Hauling routes clearly marked with appropriate signage. | 5 | - | Compliant | |
| Mining area fenced with 3 lockable gates | 5 | - | Compliant | |





COMMENTS OR COMPLAINTS RECEIVED FROM I&AP'S

(APPENDIX 7 SUB-REGULATION 3(G) & (J)):

No written environmental related complaints were received during the audit period from March to April 2021.

<u>AUDITING OF EA, EMPR AND REPORTING THEREOF</u> (REGULATION 34):

| Date of previous EAR/EPA: | The previous EPA was submitted to DMRE on June 2020. | | |
|---|---|--|--|
| Proof of submission to DMR available: | DMRE acknowledged receipt of the last EAR/EPA. | | |
| EAR/EPA compiled by independent person with environmental auditing expertise: | The EAR was compiled by Mrs. Sonette Smit from Greenmined Environmental. The EPA was compiled by Mrs. Murchellin Saal from Greenmined Environmental. | | |
| Potential and registered I&AP's | This report is available on the website and can be viewed on, www.greenmined.com | | |

GENERAL REPORT

Compliance of the mining site with the EMP approved by DMR was reviewed during the site assessment. The Mining area recorded a compliance score of 96% for the month of April 2021.

No inspection was conducted in January 2021.

An Environmental Authorisation was obtained on the 6th of July 2017. The Mining Permit is dated 21 August 2017. First inspection was conducted on the 27th of June 2018.

The Swartland Municipality approved the zoning application on the condition that the client must adhere to other applicable legislations. The Department of Environmental Affairs and Development Planning approved the Land Use Application on 6 September 2018.

All mining activities and infrastructure are taking place within the permit boundary area.

DWS required a 2nd opinion from the internal groundwater specialist. Another presentation meeting is scheduled on the 15th of November 2019. Awaiting feedback from the Department of Water and Sanitation. Application has been with the Department of Water and Sanitation since 2018. Greenmined has requested the application to be escalated. Warren Dreyer telephonically confirmed that the application will be escalated on Monday the 29th of June 2020. Proof of escalation email is available at Greenmined. The groundwater specialist confirmed he will give his input before end of 2020. Ground water specialist send comments to official in December, application in final process. On the 19th of February the official Sbonelo Ndlovu confirmed that the he is busy preparing for a presentation of application. Still awaiting response from DWS after numerous follow ups in March 2021.



Management of Dust Generation:

The fallout dust monitoring was implemented on the 27th of June 2018,

Monitoring results has thus far proved that dust emissions are within the guidelines. This site has a monthly dust monitoring cycle that is changed on the same date as ECO inspection.

No change was done in January 2021. Buckets were installed in December and removed on 26 February, next units were changed on the 26th of March 2021.

Waste Management:

The client has placed three sealable refuge bins on site. For hazardous waste, general waste and Non-biodegradable waste. Up to date no hazardous waste was generated on site. A register must be kept on site with proof of waste removals. **An oil spill kit must be kept on site.**

Access roads:

Vehicles utilising the access road must restrict speed to 40km/h. The client implemented a 20km/h restriction.

These restrictions were erected and placed in all the areas which are highly visible.

Hauling routes for construction vehicles and machinery is clearly marked and appropriate signalling was posted.

Employee and Safety Management:

Workers were inducted and informed of EMPr conditions. All workers signed as confirmation of understanding the induction. Appropriate notification signage was erected at the mining site. This gives a clear warning to the public about the hazard around the mining site and presence of heavy vehicles and machinery.

DOCUMENT CHECKLIST:

Environmental Authorisation - Present

Mining Permit - Present

Environmental Management Plan - Present

Confirmation of Contractors - Present

Awareness of EA Conditions - Present

Environmental Induction and Awareness Training - Present

Letter of Enactment to DMR - Present

Alien Vegetation Control Programme - Present

Dust Monitoring Plan
 Present

Emergency Preparedness Plan
 Present

Complaints Register - Present

Waste Registers - Present

Reporting of Environmental Incidents - Present

Incidents and Accidents Register - Present

Environmental Audit Report - Present

Water authorisation
 Not Present (Application submitted, Delay at DWS-

Communication proof available at Greenmined Environmental)



MATTERS TO BE ADDRESSED ON SITE:

- 1. Remove the weeds that is currently visible on some of the stockpiles.
- 2. Rehabilitate open mining area.

ABILITY OF EMPR TO ADEQUATELY MANAGE OR MITIGATE ENVIRONMENTAL IMPACTS (APPENDIX 7 SUB-REGULATION 3(E):

It is believed that the EMPR currently adequately manage and/or mitigate environmental impacts at mining area.

NEED FOR AMENDMENT OF THE EMPR:

At the time of inspection, the screen was not on site and therefore there is no need for an amendment.

FINANCIAL PROVISION:

The previous calculations were undertaken by Greenmined Environmental (Pty) Ltd in 2019 and the financial provision value for the rehabilitation of the mining area was in the sum of R379 997.16. The permit holder has a bank guarantee to the value of R 380 000 with the DMRE.

The financial provision to be provided to the Department of Mineral Resources and Energy by Virtigo Properties 33 (Pty) Ltd to cover the financial provision amount for 2020 was calculated to be R424 143.17. The 2020 financial provision exceed the value of financial guarantee in place at the DMRE, and upon departmental approval, the permit holder may have to provide a shortfall of R 44 143.17.

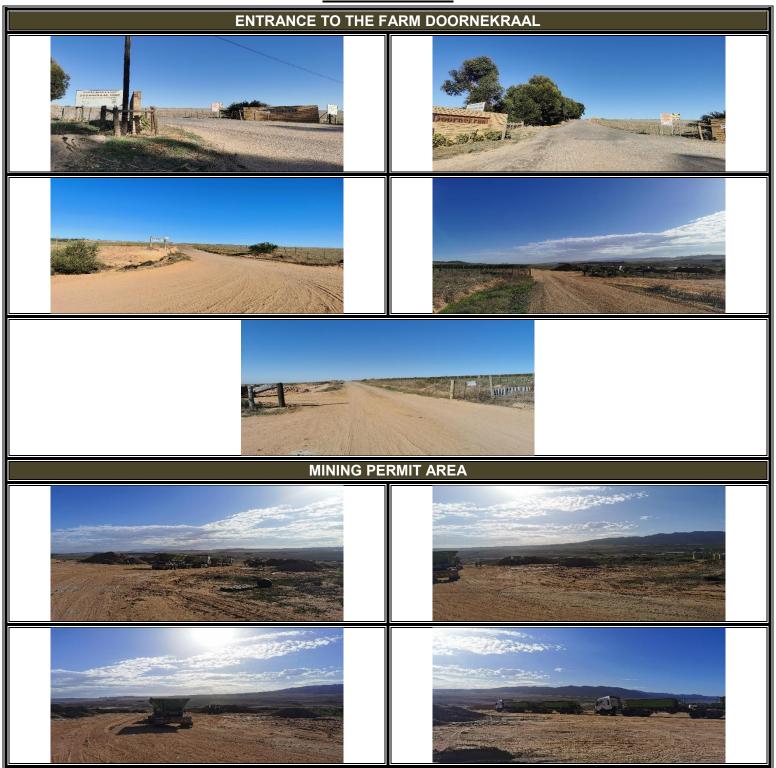
The permit holder has a bank guarantee to the value of R 380 000 with the DMRE

ECO SIGNATURE

| NAME: | SIGNATURE: | DATE: |
|-----------------|------------|---------------|
| Murchellin Saal | Assal. | 30 April 2021 |



PHOTOGRAPHS:













REHABILITATED AREAS



CURRENT OPEN AREAS TO BE REHABILITATED ONCE ALL THE MATERIAL IS SOLD. NO EXCAVATION WILL BE DONE UNTILL THIS SECTION IS REHABILITATED.





TOILET

















PROOF OF TOILET CLEANING



Boland Toilets Services (Pty) Ltd 13 Meul Street

Bella Vista

PO Box 962 CERES 6835 Tel: 088 111 5193 Fax: 023 315 5651

Email info@jmgrp.co.za Website: www.toilethiresa.co.za

VAT No. 4960240040

CUST No. VIR001 - CASH TAX INVOICE 00130204 VIRTIGO PROP 33 PTY LTD-CC P O BOX 536 WELLINGTON 7654 DOORNKRAAL PLAAS R302 MALWESBURY-JANNIE BURGER 0824634345/LEJANDI BURGER 0825524087

Date 2020-05-31 Client Ref Client Vat No. 4860229149 Our Ref Rep Fax

Code Description Qty Unit Price Disc Total 8780H96 ATLAS INCLUDING WEEKLY SERVICE 2020-06-01 2029-08-30 1.00

Bank Details
Bank: NEDBANK
Branch: INLAND GARDEN 198765
Account No.: 1285091221

Sub Total VAT 15% 878.00

Paid in Full: NO

www.hiresoftware.co.za

Sign:

April 2021 21



