











Hydrocensus Report

March 2018

Prepared by Aquatico Scientific (Pty) Ltd.

RIETKOL PROJECT HYDROCENSUS REPORT 2018

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leaders in environmental monitoring

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1 INTRODUCTION

Aquatico Scientific was commissioned to conduct a hydrocensus for Consol Glass (Pty) Ltd. ("Rietkol Project") commencing April 2016. The Rietkol MRA is situated approximately 6 km east of Delmas and 4 km North of Eloff, within Ward 9 of the Victor Khanye Local Municipality and Nkangala District in the Mpumalanga province. An extended area was to be monitored in January 2017 to include a larger area around the proposed mining area. A further inclusion was done in March 2018 to add more data from the surrounding farms and localities not previously included in the survey. This report will summarise all available results from the various surveys as a whole.

In a situation where development is required in an area, existing and historical data narrowly provides sufficient information on the availability of boreholes, water quality, and water use within an area. Therefore it is often important to gather additional information from individuals within that area, hence the relevance of a hydrocensus.

Hydrocensus involves the collection of field data to develop an absolute understanding of the hydrological systems as well as their condition within an area. Data collected usually involves borehole coordinates or coordinates of surface water bodies, groundwater levels, water samples for chemical analysis and typical water use in the study area.

Various landowners were visited over different timespans and representative boreholes on their respective properties were surveyed.

2 SCOPE OF WORK

The aim of a hydrocensus field survey is as follows:

- Locating all interested and affected persons (I&APs) of the proposed development.
- Gathering of personal information from the I&APs (Name, Telephone number, Address, etc.).
- Accurately logging of representative boreholes on the I&APs properties.
- Gathering of information of the logged boreholes (Yield, Age, Depth, Water level, etc.).
- Analysing representative ground and surface water samples from the I&APs properties.
- Establishing a baseline water quality for the hydrocensus area.
- Presenting the surveyed data on a map.









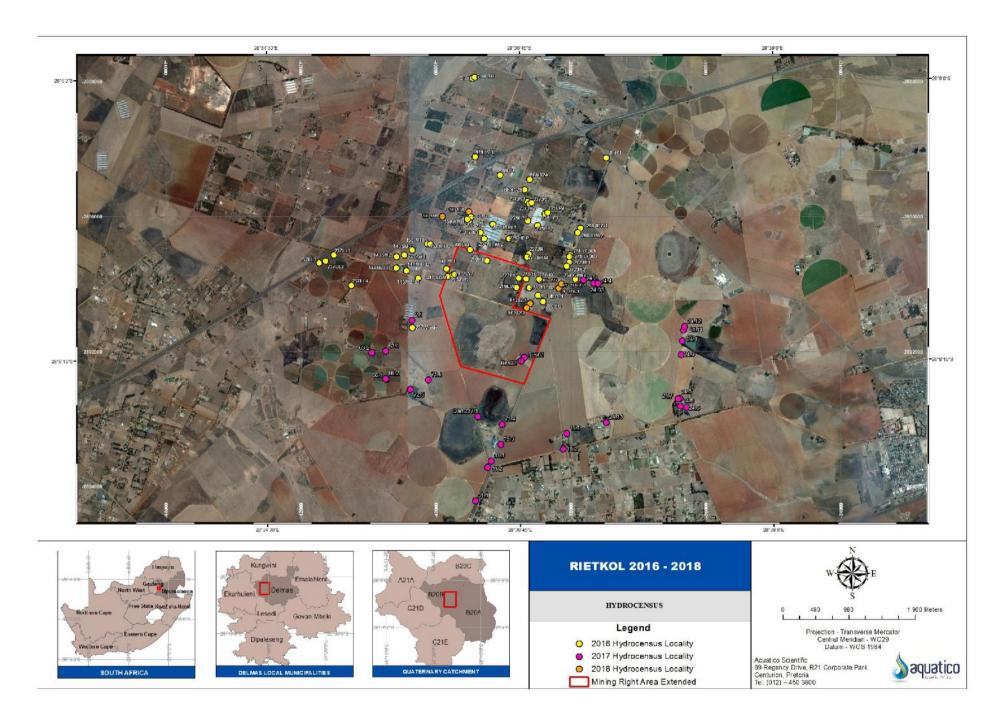


Figure 1: Hydrocensus locality map for the Rietkol Project (2016 to 2018).

3 FIELD SURVEY RESULTS & FINDINGS

During the 2016 survey fifty-six localities were visited of which forty could be sampled; water levels were recorded where possible. Ten of the samples were chosen to be analysed for chemical variables; the chosen samples were localities thought to be more vulnerable to the future development activity.

One of the prominent localities was an underground lake with an opening towards the surface; this cave opening may be entered to reach the lake. At the time of sampling the land from which the cave was accessible belonged to a Mr. Joseph Coombie. A borehole was found close to the cave entrance, an old mono pump column is still fixed inside the borehole. The water level in the borehole was measured at 23.50 mbs. Below are photos of the cave entrance and the borehole.

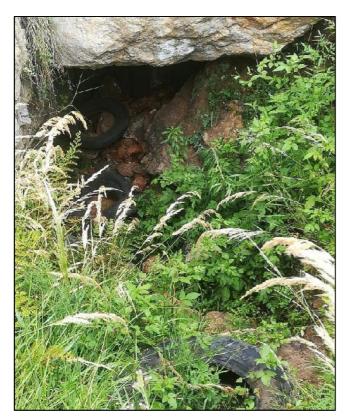




Figure 2: Cave entrance to the underground lake (left) and borehole drilled into the lake (right).

During the extended survey in 2017 twenty-six boreholes and four dams (receiving water pumped from inaccessible boreholes) were visited; from these thirty surveyed localities twenty-four could be sampled and water levels taken where possible. Eight relevant samples were chosen and analysed for chemical variables.

Seven additional boreholes were visited in 2018, from these four could be sampled and also analysed; water levels were taken where possible.

Figure 1 indicates the position of all the surveyed localities in the hydrocensus area between the 2016 and 2018 monitoring periods. A complete list of the localities monitored between 2016 and 2018 is presented in **Appendix A**. Stated in this list are also the coordinates, water levels, depths and water uses (which are mostly for domestic, livestock watering and irrigation) of the surveyed localities.

4 WATER QUALITY DISCUSSION

Water quality results were evaluated against the SANS 241-1:2015 drinking water standards and the South African Water Quality Guidelines (SAWQG) for Agricultural Use: Irrigation (DWAF, 1996). The water from the localities encountered during this hydrocensus survey is mostly used for domestic purposes, agricultural irrigation and some livestock watering.

The water quality is also classified according to the WRC Quality of Domestic Water Supplies colour classification system (Table 1). When comparing the data to the guidelines, the worst substance class will determine the overall class of the water supply. Water quality is classified according to the variables tested.

Table 1: WRC Quality of Domestic Water Supplies - Colour classification system

| Class/Colour | Description | Effects |
|--------------|----------------------------|--|
| Class 0 | Ideal water quality | No effects, suitable for many generations |
| Class 1 | Good water quality | Suitable for lifetime use. Rare instances of sub- clinical effects |
| Class 2 | Marginal water quality | May cause some effects in sensitive users. Some effects possible after a lifetime of use. Aesthetic effects. |
| Class 3 | Poor water quality | Poses risk of chronic health effects, especially in babies, children and the elderly. Poor aesthetics |
| Class 4 | Unacceptable water quality | Severe acute health effects, even with short-term use. Taste and appearance will lead to rejection of the water. |

4.1 Expanded Durov Diagram

Among other chemical diagrams used to describe water quality such as Piper, Stiff and expanded Durov diagrams, expanded Durov diagram stands out for it clarity in characterizing groundwater. This is because the dominating cations (Mg²⁺, Ca²⁺, Na⁺ and K⁺) and anions (HCO₃²⁻, SO₄, NO₃⁻ and Cl⁻) present in the localities could clearly be seen from the fields in which the localities plot. As with STIFF diagrams, the plot positions are determined on the basis of milli-equivalent per litre (meq/l). The characteristics of the different fields will be discussed briefly: The boreholes will also be plotted on the expanded Durov diagram to help characterise the groundwater qualities. The characteristics of the different fields will be discussed briefly:

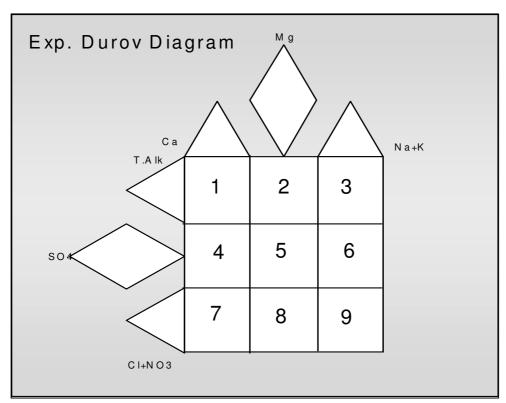


Figure 3: Typical layout of the expanded Durov Diagram with different fields shown

Field 1:

Fresh, very clean recently recharged groundwater with HCO₃ and CO₃ dominated ions

Field 2:

Field 2 represents fresh, clean, relatively young groundwater that has started to undergo Mg ion exchange, often found in dolomitic terrain.

Field 3:

This field indicates fresh, clean, relatively young groundwater that has undergone Na ion exchange (sometimes in Na-rich granites or other felsic rocks), or because of contamination effects from a source rich in Na.

Field 4:

Fresh, recently recharged groundwater with HCO³⁻ and CO₃ dominated ions that has been in contact with a source of SO₄ contamination, or that has moved through SO₄ enriched bedrock.

Field 5:

Groundwater that is usually a mix of different types – either clean water from Fields 1 and 2 that has undergone SO_4 and NaCl mixing / contamination, or old stagnant NaCl dominated water that has mixed with clean water.

Field 6:

Groundwater from Field 5 that has been in contact with a source rich in Na, or old stagnant NaCl dominated water that resides in Na-rich host rock / material.

Field 7:

Water rarely plots in this field that indicates NO₃ or Cl enrichment, or dissolution.

Field 8:

Groundwater that is usually a mix of different types - either clean water from Fields 1 and 2 that has undergone SO_4 , but especially CI mixing / contamination, or old stagnant NaCl dominated water that has mixed with water richer in Mg.

Field 9:

Very old, stagnant water that has reached the end of the geohydrological cycle (deserts, salty pans, etc.) or water that has moved a long time and/or distance through the aquifer and has undergone significant ion exchange.

4.2 Stiff diagrams

The Stiff diagrams found in Figure 6 graphically represent the major cation and anion composition of a water sample. This is a useful tool for assessing the chemical water quality differences and similarities of groundwater samples.

5 RESULTS

5.1 Water quality results

The water quality results of analysed localities are presented in **Appendix B**. Table 2 below gives a summary of the results based on analysed variables, classified according to the WRC (1998) classification system.

Most analysed water samples complied with the SANS 241-1:2015 drinking water standards for analysed variables; samples **148PB1** and **202Unex2** exceeded the SANS 241-1:2015 drinking water standards in terms of nitrate concentrations while locality **RKLX** exceeded in terms of manganese concentrations.

The SAWQG agricultural use: irrigation and agricultural use: livestock watering respectively were exceeded sporadically; these exceedances may be viewed in the locality assessment reports (Appendix C).

Table 2: Summary of results for samples analysed between 2016 and 2018.

| Locality / sample name | WRC Classification | Exceedance in terms of | Physical water Quality |
|------------------------|--------------------|------------------------|--|
| 148PB1 | Class 2 -Marginal | NO ₃ | Neutral, hard and non-saline |
| 153MT2 | Class 1 - Good | Total hardness | Neutral, slightly hard and non-saline |
| 202Unex2 | Class 2 -Marginal | NO ₃ | Neutral, moderately soft and non-saline |
| 208BM | Class 1 - Good | Total hardness | Neutral, hard and non-saline |
| 213JW1 | Class 0 - Ideal | - | Neutral, moderately hard and non-saline |
| 222PK | Class 0 - Ideal | - | Neutral, moderately hard and non-saline |
| 226BKM | Class 0 - Ideal | - | Neutral, moderately hard and non-saline |
| 229HDP | Class 0 - Ideal | - | Alkaline, moderately soft and non-saline |
| 235LP3 | Class 0 - Ideal | - | Neutral, slightly hard and non-saline |
| 278JDP02 | Class 0 - Ideal | - | Alkaline, moderately hard and non- saline |
| PF 276.1 | Class 0 - Ideal | - | Neutral, moderately hard and non-saline |
| PF 276.2 | Class 1 - Good | NO ₃ | Neutral, moderately hard and non-saline |
| KG 277 | Class 0 - Ideal | - | Neutral, moderately hard and non-saline |
| Res 02 | Class 1 - Good | Total hardness | Neutral, hard and non-saline |
| RF282.1 (RKLX) | Class 1 - Good | Mn, Total hardness | Neutral, hard and non-saline |
| Section 15.2 | Class 0 - Ideal | - | Alkaline, slightly hard and non-saline |
| Section 2.1 | Class 1 - Good | NO ₃ | Neutral, moderately hard and non-saline |
| Section 24.13 | Class 0 - Ideal | - | Neutral, moderately hard and non-saline |
| Section 24.5 | Class 0 - Ideal | - | Neutral, moderately hard and non-saline |
| Section 63.1 | Class 0 - Ideal | - | Alkaline, moderately hard and non- saline |
| Section 71.4 | Class 0 - Ideal | - | Neutral, moderately hard and non-saline |
| Section 72.5 | Class 0 - Ideal | - | Neutral, moderately hard and non-saline |

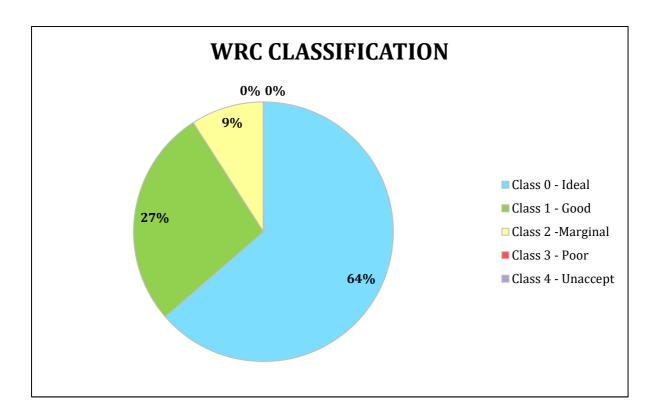


Figure 4: Percentage of localities that make up each Domestic use class according to the WRC Quality of Domestic Water Supplies guidelines (1998)

Of the twenty-two (22) localities that had been analysed:

- Fourteen (14) were found to be Ideal (64%)
- Six (6) were found to be **Good** (27%),
- Two (2) were found to be Marginal (9%),
- Zero (0) were found to be Poor (0%) and
- Zero (0) were found to be Unacceptable (0%).

The groundwater qualities of selected samples are represented in the Expanded Durov diagram in Figure 5 while graphical representations of the dominant ions are seen in the Stiff diagrams, Figure 6.

5.2 Recorded water levels

Recorded water levels for the hydrocensus localities are illustrated in figure 7; more information on borehole depths etc. may be found in **Appendix A** and **Appendix D**. All water levels are given in meters below surface (mbs).

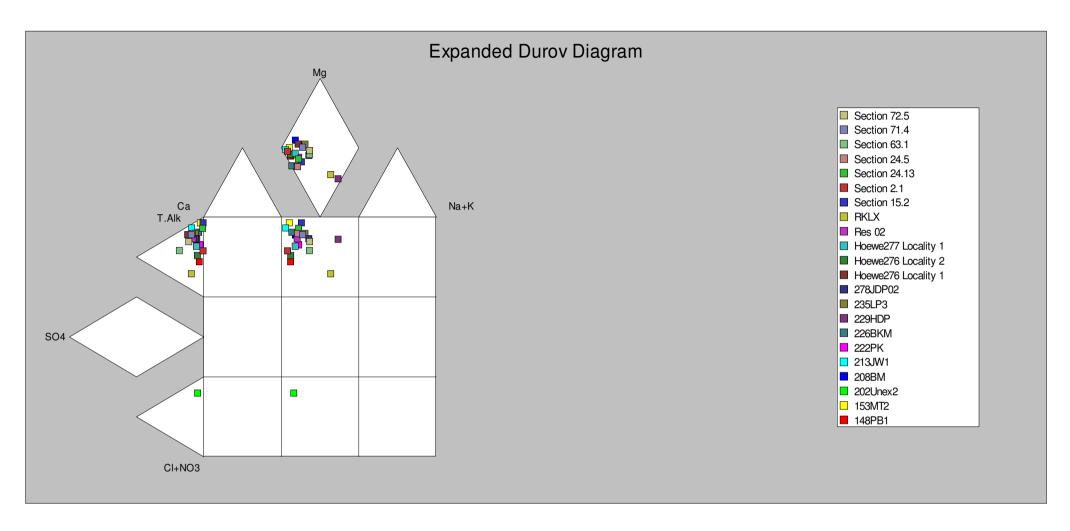


Figure 5: Expanded Durov diagram for extended area hydrocensus boreholes

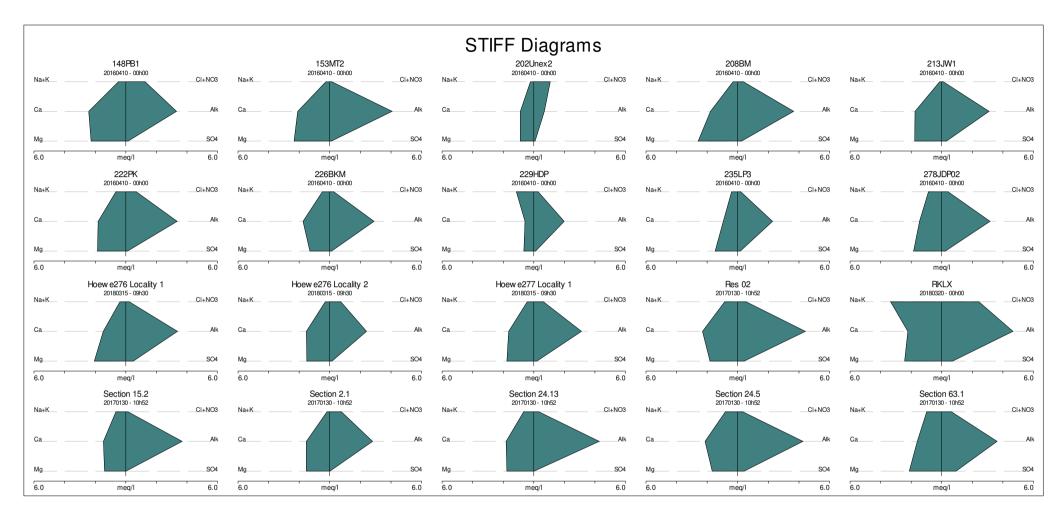


Figure 6: Stiff diagram for extended area hydrocensus boreholes

Static water level distribution of selected monitored localities between the 2016 to 2018 monitoring periods

Selected localities

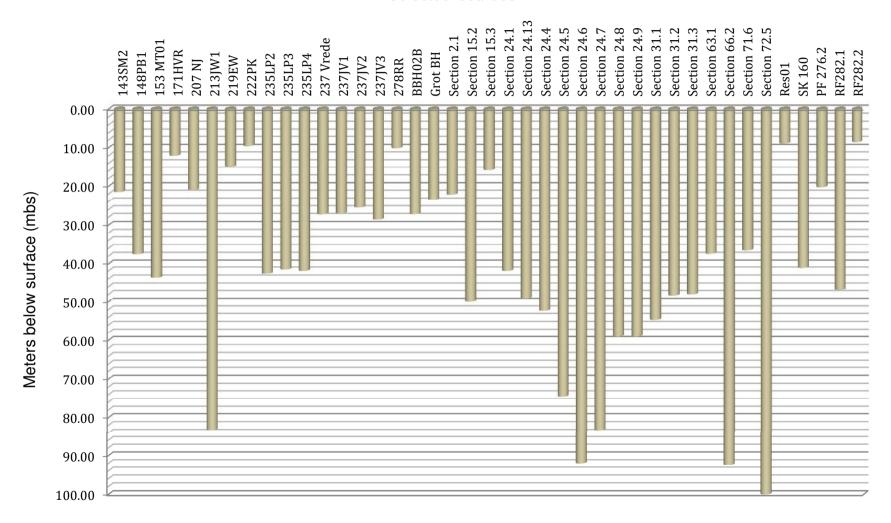


Figure 7: Groundwater levels of selected monitored localities in meters below surface (mbs)

6 DISCUSSION

- Water quality of most analysed samples were classified as ideal (class 0) or good (class1) water quality for domestic use, also complying with drinking water standards. Classifications are based on the WRC 1998 classification system based on analysed variables. Groundwater of the analysed localities contains low or no pollutants in terms the variable analysed for.
- Two samples were classified as marginal (class 2) water quality for domestic use due to nitrate concentrations detected. The two sample localities were seen to be spatially located relatively close together.
- The DWAF SAWQG for Agriculture: Irrigation guidelines and SAWQG for Agriculture: Livestock watering guidelines were exceeded at various localities. These qualities should be observed as most of the sampled localities use water for irrigation and livestock watering purposes.
- Salts and nutrients had low to moderate concentrations in all samples.
- Heavy metals were mostly below detection limits.
- Any pollutant entering the groundwater and altering the water chemistry significantly should be relatively easy to detect at these localities with their current water quality.
- Static groundwater levels, of localities where water levels could be established, varied greatly between localities.
- In terms of the Expanded Durov diagram, most samples fell within the Field 2 category. Field 2 represents fresh, clean, relatively young groundwater that has started to undergo magnesium ion exchange, often found in dolomitic terrain. This field depicts water of a very high quality, according to measured dominant ions.
- One sample (202Unex2) fell within the Field 8 category. This field represents groundwater that
 is usually a mix of different types either clean water from Fields 1 or 2 that has undergone
 sulphate, but especially chloride mixing / contamination, or old stagnant sodium-chloride
 dominated water that has mixed with water richer in magnesium.
- From the Stiff diagrams (Figure 6) may also be seen that most samples had similar graphical representations, dominated by the calcium carbonate anion and the calcium or magnesium cation. Sample 202Unex2 is seen to stand out differently from the other samples.

7 CONCLUSION

- Between the 2016 and 2018 monitoring periods a total of ninety-three (93) localities were surveyed of which sixty-eight (68) localities could be sampled; critical localities were chosen to be analysed, totalling twenty-two samples that were chemically analysed.
- Water from the various localities surveyed is mostly used for domestic purposes, agricultural irrigation, livestock watering or a combination thereof.
- Most analysed samples were of good quality and complied with drinking water standards, in terms of analysed variables.
- The DWAF SAWQG for Agriculture: Irrigation guidelines and the SAWQG for Agriculture: Livestock watering guidelines were exceeded for various analysed variables.
- The majority of samples also had similar chemical water compositions, seen in the Extended Durov diagram and Stiff diagrams respectively.
- Water-levels were recorded at several localities and revealed variating static water levels. Many localities were blocked or inaccessible and a water-level could not be measured.
- Water samples from the analysed localities are of good quality and pollutants in the groundwater should be easily detected.

8 REFERENCES

WRC, (1998): Water Research Commission No: TT 101/98, Quality of Domestic Water Supplies, Vol. 1: Assessment Guide, Second Edition.

Department of Water Affairs and Forestry (DWAF). Act N. 36 of 1998: National Water Act, 1998

Department of Minerals and Energy (DME). Act N 28 of 2002: Minerals and Petroleum Resources Development Act, 2002

The South African Bureau of Standards (SABS), ISO 5667-1 to 5667-15, First Edition, 1999

Department of Water Affairs and Forestry (DWAF). 2006: Best Practice Guideline N. G3. Water Monitoring Systems.

Department of Water Affairs and Forestry (DWAF). Targeted Water Quality Guidelines:

Domestic Use (Volume 01), Livestock Watering (Volume 05), Irrigation (Volume 04). 1998.

Appendix A

Survey register



| | | | Rietkol Project F | Hydrocensus - 2016 s | urvey | | |
|------------|--------------------------------|--------------|-------------------|----------------------|------------------|------------------|------------------------------------|
| Locality | Groundwater locality type | X-Coordinate | Y-Coordinate | Static water level | Borehole depth | Water Sampled | Water Use |
| 143SM1 | Borehole with submersible pump | 28.59538 | 26.12344 | = | 20.3 mbs | Yes | Domestic |
| 143SM2 | Borehole with submersible pump | 28.59421 | 26.12361 | 21.50 mbs | 52 mbs | No | - |
| 143SM3 | Borehole with submersible pump | 28.59655 | 26.12273 | - | - | No | - |
| 144MBFI2 | Borehole with submersible pump | 28.59564 | 26.12549 | - | 70 mbs Est. | Yes | Irrigation |
| 144MBFI3 | Borehole with submersible pump | 28.59414 | 26.12514 | - | 70 mbs Est. | Yes | Irrigation |
| 145MBFI1 | Borehole with submersible pump | 28.59742 | 26.1265 | - | - | Yes | - Irrigation |
| 148PB1 | Open Borehole | 28.60159 | 26.12526 | 37.52 mbs | - | Yes | - |
| 153 MT01 | Monitoring Borehole | 28.59882 | 26.12195 | 43.73 mbs | 150 mbs | Yes | Monitoring Borehole |
| 153 MT02 | Borehole with submersible pump | 28.59918 | 26.12198 | - | - | Yes | Domestic and Irrigation |
| 159 AMB | Borehole with submersible pump | 28.60471 | 26.11863 | _ | - | No | Not in use |
| 171HVR | Mono Pump | 28.6059 | 26.11032 | 12 mbs | 32 mbs | Yes | Domestic, Irrigation and Livestock |
| | • | | | | 32 IIIDS - | | |
| 199 ID | Borehole with submersible pump | 28.60957 | 26.11277 | | | Yes | Domestic |
| 202 Unex 1 | Borehole with submersible pump | 28.60848 | 26.11935 | - | - | Yes | Irrigation of roses |
| 202 Unex 2 | Borehole with submersible pump | 28.60716 | 26.12128 | - | - | Yes | Irrigation of roses |
| 205MZ | Borehole with submersible pump | 8.60522 | 26.11833 | - | - | Yes | Domestic |
| 206 JS | Borehole with submersible pump | 28.60498 | 26.11887 | - | 83 mbs Est. | Yes | Domestic, Irrigation and Livestock |
| 207 NJ | Borehole with submersible pump | 28.60660 | 26.12044 | 20.89 mbs | - | Yes | Domestic, Irrigation and Livestock |
| 208BM | Borehole with submersible pump | 28.60510 | 26.12275 | - | - | Yes | Domestic and Livestock |
| 210HB | Borehole with submersible pump | 28.60759 | 26.12421 | - | 80 mbs Est. | No | Domestic, Irrigation and Livestock |
| 213JW1 | Borehole with submersible pump | 28.60252 | 26.12613 | 83.26 mbs | 160 mbs Est. | Yes | Domestic, Irrigation and Livestock |
| 213JW2 | Borehole with submersible pump | 28.60282 | 26.12603 | - | 87 mbs | No | Domestic, Irrigation and Livestock |
| 216 ABM | Borehole with submersible pump | 28.60181 | 26.12634 | - | 200 mbs Est. | No | Domestic |
| 219EW | Borehole with submersible pump | 28.61197 | 26.1278 | 14.83 mbs | - | No | Domestic |
| 222PK | Borehole with submersible pump | 28.61229 | 26.12656 | 9.58 mbs | 71.20 mbs | Yes | Domestic and Livestock |
| 226 BKM | Borehole with submersible pump | 28.61354 | 26.12374 | - | - | Yes | Domestic, Irrigation and Livestock |
| 227JR | Open Borehole | 28.61380 | 26.12330 | - | - | No | - |
| 229 HDP | Borehole with submersible pump | 28.61085 | 26.12126 | - | 115 mbs | Yes | Domestic and Irrigation |
| 234 Geluk | Borehole with submersible pump | 28.62066 | 26.12674 | 38 mbs Est. | 47.50 mbs Est. | Yes | Livestock (Chicken) and Irrigation |
| 235LP1 | Borehole with submersible pump | 28.61366 | 26.11891 | 42.69 Est. | 160 mbs Est. | Yes | Irrigation of roses |
| 235LP2 | Monitoring borehole | 28.61512 | 26.11951 | 42.69 mbs | 140 mbs Est. | Yes | Monitoring borehole |
| 235LP3 | Borehole with submersible pump | 28.61621 | 26.11798 | 41.64 mbs | 84 mbs | Yes | Domestic |
| | | | | 41.04 Hibs 42 mbs | 140 mbs Est. | | |
| 235LP4 | Borehole with submersible pump | 28.61663 | 26.11781 | | 140 mbs Est. | Yes | Irrigation of roses |
| 237 Vrede | Borehole with submersible pump | 28.59652 | 26.13312 | 27.28 mbs | - | Yes | Livestock (Chicken) |
| 237JV1 | Borehole with submersible pump | 28.61359 | 26.11633 | 27.05 mbs | 101 mbs Est. | No | - |
| 237JV2 | Borehole with submersible pump | 28.61387 | 26.11662 | 25.5 mbs | 61 mbs | No | - |
| 237JV3 | Borehole with submersible pump | 28.61425 | 26.11648 | 28.55 mbs | 65 mbs | Yes | Domestic |
| 237LL1 | Borehole with submersible pump | 28.58494 | 26.12340 | - | - | Yes | Irrigation |
| 237LL2 | Borehole with submersible pump | 28.58368 | 26.12419 | - | - | No | Irrigation |
| 237LL3 | Borehole with submersible pump | 28.58274 | 26.12441 | - | - | No | Irrigation |
| 237LL4 | Borehole with submersible pump | 28.58751 | 26.12748 | - | - | No | Irrigation |
| 266 IDW1 | Borehole with submersible pump | 28.62148 | 26.11989 | - | 57 mbs Est. | Yes | Domestic and Irrigation |
| 266 IDW2 | Borehole with submersible pump | 28.62102 | 26.12049 | - | 90 Est. | | |
| 271 LFJ01 | Borehole with submersible pump | 28.61996 | 26.12345 | - | - | Yes | Domestic and Irrigation |
| 271 LFJ02 | Borehole with submersible pump | 28.61981 | 26.12371 | - | - | No | - |
| 272JR1 | Borehole with submersible pump | 28.61984 | 26.12446 | - | 65 mbs Est. | Yes | Domestic, Irrigation and Livestock |
| 272JR2 | Well | 28.61943 | 26.12496 | - | 6 mbs | Yes | - |
| 277 KG | Borehole with submersible pump | 28.61530 | 26.12674 | - | - | Yes | Domestic and Irrigation |
| 278 JDP02 | Borehole with submersible pump | 28.61386 | 26.12788 | - | 180 mbs Est. | Yes | Domestic and Livestock |
| 278RR | Open Borehole | 28.61343 | 26.12667 | 10.10 mbs | 16.45 mbs | Yes | - |
| 280 EG | Borehole with submersible pump | 28.61589 | 26.12967 | - | 43mbs | Yes | Domestic and Irrigation |
| 281 JDP01 | Borehole with submersible pump | 28.61513 | 26.12885 | _ | 54 mbs | Yes | Domestic and Livestock |
| BBH01 | Borehole with submersible pump | 28.62527 | 26.11050 | _ | 26.62 mbs | Yes | Irrigation |
| BBH02A | Borehole with submersible pump | 28.61397 | 26.11030 | - | 50 mbs Est. | Yes | Domestic |
| | | | | | 60 - 70 mbs Est. | | |
| BBH02B | Borehole with submersible pump | 28.61318 | 26.11474 | 27.25 mbs | | Yes | Domestic and Irrigation |
| Grot | Cave / Underground lake | 28.60554 | 26.09984 | 22.5 | - | Yes | - |
| Grot BH | Borehole | 28.60586 | 26.09969 | 23.5 mbs | - | No | - |

| | | | Rietkol Project I | lydrocensus - 2017 si | urvey | | |
|---------------|--------------------------------|--------------|-------------------|-----------------------|----------------|------------------|--|
| Locality | Groundwater locality type | X-Coordinate | Y-Coordinate | Static water level | Borehole depth | Water Sampled | Water Use |
| Section 2.1 | Borehole with submersible pump | 28.59647 | 26.13216 | 22.14 mbs | - | Yes | Livestock watering, Domestic |
| Section 15.1 | Borehole | 28.61934 | 26.14734 | - | - | No | |
| Section 15.2 | Borehole | 28.61879 | 26.1494 | 50 mbs | - | Yes | Domestic and livestock |
| Section 15.3 | Borehole with submersible pump | 28.60956 | 26.14877 | 15.85 mbs | - | Yes | Not in use |
| Section 24.03 | Borehole with submersible pump | 28.62339 | 26.12728 | - | - | No | No - Borehole blocked |
| Section 24.1 | Borehole | - | - | 42 mbs | - | Yes | - |
| Section 24.10 | Dam | 28.6365 | 26.13503 | - | - | Yes | Irrigation |
| Section 24.11 | Borehole with submersible pump | 28.63667 | 26.13357 | - | - | Yes | Not in use |
| Section 24.12 | Borehole with submersible pump | 28.63686 | 26.13310 | - | - | Yes | Not in use |
| Section 24.13 | Borehole with submersible pump | 28.62518 | 26.1459 | 49 mbs | - | Yes | Domestic |
| Section 24.2 | Borehole | 28.62187 | 26.12685 | - | 108 mbs | No | Domestic and irrigation |
| Section 24.4 | Borehole with submersible pump | 28.62404 | 26.12729 | 52.3 mbs | - | No | Irrigation |
| Section 24.5 | Borehole with submersible pump | 28.63612 | 26.14266 | 74.5 mbs | 95 mbs | Yes | Irrigation, Domestic |
| Section 24.6 | Borehole with submersible pump | 28.63707 | 26.14389 | 92 mbs | - | Yes | Not in use |
| Section 24.7 | Borehole with submersible pump | 28.63584 | 26.14271 | 83.3 mbs | 202 mbs | Yes | Not in use - New borehole |
| Section 24.8 | Borehole with submersible pump | 28.63618 | 26.14373 | 59 mbs | - | No | No - Borehole not in use |
| Section 24.9 | Borehole with submersible pump | 28.63633 | 26.13684 | 59 mbs | 200 mbs | Yes | Not in use |
| Section 31.1 | Borehole with submersible pump | 28.60577 | 26.15631 | 54.65 mbs | 120 mbs | Yes | Irrigation |
| Section 31.2 | Borehole with submersible pump | 28.60762 | 26.15184 | 48.29 mbs | 68 mbs | Yes | Irrigation |
| Section 31.3 | Borehole with submersible pump | 28.60813 | 26.15101 | 47.98 mbs | 64 mbs | Yes | Livestock watering |
| Section 63.1 | Borehole with submersible pump | 28.59255 | 26.13624 | 37.40 mbs | - | Yes | - |
| Section 63.2 | Dam | 28.59051 | 26.13646 | - | - | Yes | Irrigation |
| Section 66.1 | Dam | 28.59271 | 26.14003 | - | - | Yes | Irrigation |
| Section 66.2 | Borehole with submersible pump | 28.59257 | 26.13995 | 92.41 mbs | - | No | - |
| Section 71.4 | Borehole with submersible pump | 28.60976 | 26.14612 | - | - | Yes | Domestic, Irrigation |
| Section 71.6 | Borehole with submersible pump | 28.59887 | 26.14014 | 36.55 mbs | | Yes | Not in use |
| Section 72.5 | Borehole with submersible pump | 28.59616 | 26.14140 | 100 mbs | 160 mbs | Yes | Irrigation, Livestock watering |
| Dam237/1 | Dam | 28.60615 | 26.14506 | - | - | Yes | Irrigation |
| Res01 | Borehole with submersible pump | 28.6131 | 26.13716 | 8.85 mbs | | Yes | Not in use |
| Res02 | Borehole with submersible pump | 28.61264 | 26.13763 | - | - | Yes | Irrigation, Livestock watering, Domestic |

| | | | Rietkol Project H | Hydrocensus - 2018 s | urvey | | |
|----------|--------------------------------|--------------|-------------------|----------------------|----------------|------------------|--------------------------------------|
| Locality | Groundwater locality type | X-Coordinate | Y-Coordinate | Static water level | Borehole depth | Water Sampled | Water Use |
| SK 158 | Borehole | 28.60494 | 26.11764 | - | | No | Irrigation, Livestock, Domestic |
| SK 160 | Borehole with submersible pump | 28.60101 | 26.11829 | 41.25 mbs | 81.69 mbs | No | - |
| PF 276.1 | Borehole with submersible pump | 28.61821 | 26.12791 | - | Est. 220 mbs | Yes | Domestic |
| PF 276.2 | Borehole | 28.61858 | 26.12735 | 20.20 mbs | 75 mbs | Yes | _ |
| KG 277 | Borehole with submersible pump | 28.61543 | 26.12689 | - | - | Yes | Irrigation, Livestock, Domestic |
| RF282.1 | Borehole | 28.61396 | 26.12995 | 46.84 mbs | 150 mbs | Yes | Not in use. Planned future domestic. |
| RF282.2 | Borehole | 28.61343 | 26.13052 | 8.5 mbs | - | No | Not in use. |

Appendix B

Water quality results





IN ENVIRONMENTAL MONITORING

| DATA TABLE: | | | |
|------------------|--|---------------|----------------|
| PROJECT NAME | Groundwater Complete - Rietkol Hydrocencus | DATE COMPILED | 28 March 2018 |
| ASSESSMENT SET 1 | SANS 241-1:2015 Drinking Water Standard (SABS, 2015) | SELECTED DATE | 18 April 2016 |
| ASSESSMENT SET 2 | DWAF (1996) SAWQG Agricultural Use Irrigation TWQGR for Crop Yield | COMPILED BY | Werner Rossouw |

Value exceeds the assessment set 1

| | | | | | | | | | | | | | Value exce |
|--|------------|------------|------------|--------|---------|----------|---------|---------|---------|----------|---------|---------|------------|
| VARIABLE | UNITS | ASSESSMENT | ASSESSMENT | | | | | N | MONITOF | RING LOC | ALITIES | | |
| | 00 | 1 | 2 | 148PB1 | 153MT2 | 202Unex2 | 208BM | 213JW1 | 222PK | 226BKM | 229HDP | 235LP3 | 278JDP02 |
| pH @ 25°C | рН | 5.0/9.7 | 6.5/8.4 | 7.42 | 7.53 | 7.3 | 8 | 7.85 | 6.95 | 8.13 | 8.78 | 8.24 | 8.62 |
| Electrical conductivity (EC) @ 25°C | mS/m | 170 | 40 | 45.2 | 37.7 | 19.6 | 38.3 | 32.7 | 38.1 | 29.3 | 21.3 | 23.4 | 36.3 |
| Total dissolved solids (TDS) | mg/l | 1200 | - | 264 | 211 | 120 | 216 | 173 | 209 | 167 | 127 | 133 | 196 |
| Total hardness | mg CaCO3/I | - | - | 235 | 222 | 88 | 219 | 176 | 183 | 153 | 61 | 121 | 165 |
| Calcium (Ca) | mg/l | - | - | 48.7 | 42 | 17.6 | 35.8 | 35 | 36.3 | 35.2 | 11.6 | 18.9 | 29.1 |
| Magnesium (Mg) | mg/l | - | - | 27.6 | 28.4 | 10.7 | 31.5 | 21.5 | 22.5 | 15.8 | 7.84 | 18 | 22.4 |
| Sodium (Na) | mg/l | 200 | 70 | 9.48 | 5.37 | 4.57 | 6.68 | 2.71 | 13.7 | 10.5 | 25.8 | 8.58 | 18.8 |
| Potassium (K) | mg/l | - | - | 2.8 | 0.925 | 0.676 | 0.898 | 0.937 | 2 | 0.994 | 0.562 | 1.33 | 2.02 |
| Total alkalinity | mg CaCO3/I | - | - | 166 | 204 | 34.7 | 183 | 155 | 168 | 145 | 99.4 | 114 | 158 |
| Chloride (CI) | mg/l | 300 | 100 | 14.9 | 2.33 | 7.5 | 6.26 | 1.84 | 20.8 | 7.74 | 1.93 | 4.2 | 13 |
| Sulphate (SO ₄) | mg/l | 500 | - | 7.03 | 4.67 | 3.86 | 12 | 14.7 | 5.13 | 5.41 | 5.62 | 7.67 | 10.9 |
| Nitrate (NO ₃) as N | mg/l | 11 | - | 11.7 | 0.734 | 12.1 | 2.61 | 0.305 | 1.28 | 0.606 | 3.01 | 1.09 | 0.615 |
| Ammonium (NH ₄) as N | mg/l | 1.5 | - | <0.005 | 0.004 | < 0.005 | < 0.005 | < 0.005 | 0.001 | < 0.005 | < 0.005 | < 0.005 | < 0.005 |
| Orthophosphate (PO ₄) as P | mg/l | - | - | 0.055 | <0.002 | < 0.002 | < 0.002 | < 0.002 | < 0.002 | < 0.002 | <0.002 | < 0.002 | < 0.002 |
| Aluminium (Al) | mg/l | 0.3 | 5 | <0.002 | < 0.002 | < 0.002 | < 0.002 | < 0.002 | < 0.002 | < 0.002 | < 0.002 | < 0.002 | < 0.002 |
| Iron (Fe) | mg/l | 0.3 | 5 | <0.004 | <0.004 | < 0.004 | < 0.004 | < 0.004 | < 0.004 | < 0.004 | <0.004 | < 0.004 | < 0.004 |
| Manganese (Mn) | mg/l | 0.1 | 0.02 | <0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| Chromium (Cr) | mg/l | 0.05 | - | <0.003 | <0.003 | < 0.003 | <0.003 | < 0.003 | <0.003 | < 0.003 | <0.003 | <0.003 | <0.003 |
| Copper (Cu) | mg/l | 2 | 0.2 | <0.002 | < 0.002 | < 0.002 | < 0.002 | < 0.002 | 0.922 | < 0.002 | < 0.002 | < 0.002 | < 0.002 |
| Nickel (Ni) | mg/l | 0.07 | 0.2 | <0.002 | <0.002 | < 0.002 | < 0.002 | < 0.002 | < 0.002 | < 0.002 | <0.002 | <0.002 | <0.002 |





| DATA TABLE: | | |
|------------------|--|--------------------------------|
| PROJECT NAME | Groundwater Complete - Rietkol Hydrocencus | DATE COMPILED 28 March 2018 |
| ASSESSMENT SET 1 | SANS 241-1:2015 Drinking Water Standard (SABS, 2015) | SELECTED DATE 06 February 2017 |
| ASSESSMENT SET 2 | DWAF (1996) SAWQG Agricultural Use Irrigation TWQGR for Crop Yield | COMPILED BY Werner Rossouw |

Value exceeds the assessment set 1

| VARIABLE | UNITS | ASSESSMENT | ASSESSMENT | | | | | MONIT | FORING LOCAL | ITIES | |
|--|------------|------------|------------|---------|--------------|-------------|---------------|--------------|--------------|--------------|--------------|
| THE COLL | 011110 | 1 | 2 | Res 02 | Section 15.2 | Section 2.1 | Section 24.13 | Section 24.5 | Section 63.1 | Section 71.4 | Section 72.5 |
| pH @ 25°C | pН | 5.0/9.7 | 6.5/8.4 | 7.92 | 7.73 | 8.29 | 7.94 | 7.9 | 8.5 | 8.31 | 8.32 |
| Electrical conductivity (EC) @ 25°C | mS/m | 170 | 40 | 44.7 | 29.1 | 29.8 | 38.2 | 41.4 | 43.2 | 33.8 | 34.7 |
| Total dissolved solids (TDS) | mg/l | 1200 | - | 265 | 182 | 182 | 219 | 246 | 261 | 205 | 209 |
| Total hardness | mg CaCO3/I | - | - | 206 | 143 | 153 | 179 | 191 | 187 | 172 | 159 |
| Calcium (Ca) | mg/l | - | - | 46.2 | 29.4 | 30.7 | 36.2 | 42.8 | 32.2 | 28.7 | 25.9 |
| Magnesium (Mg) | mg/l | - | - | 22.1 | 16.9 | 18.6 | 21.4 | 20.3 | 25.8 | 24.3 | 23 |
| Sodium (Na) | mg/l | 200 | 70 | 18.3 | 12.8 | 3.42 | 12.7 | 16.6 | 21.4 | 11.9 | 17 |
| Potassium (K) | mg/l | - | - | 2.4 | 3.48 | 1.38 | 4.07 | 3.66 | 2.11 | 1.41 | 1.49 |
| Total alkalinity | mg CaCO3/I | - | - | 221 | 184 | 140 | 214 | 213 | 181 | 180 | 168 |
| Chloride (CI) | mg/l | 300 | 100 | 17 | 3.85 | 7.38 | 9.95 | 10.1 | 20.6 | 9.05 | 14 |
| Sulphate (SO ₄) | mg/l | 500 | - | 19.9 | < 0.141 | 0.402 | 1.25 | 20 | 44.5 | 18.5 | 22.2 |
| Nitrate (NO ₃) as N | mg/l | 11 | - | 0.83 | 0.508 | 7.69 | 0.644 | 0.382 | 0.719 | 0.374 | 0.498 |
| Ammonium (NH ₄) as N | mg/l | 1.5 | - | 0.099 | 0.078 | 0.047 | 0.045 | 0.047 | 0.101 | 0.049 | 0.059 |
| Orthophosphate (PO ₄) as P | mg/l | - | - | 0.051 | 0.044 | 0.038 | 0.11 | 0.07 | 0.039 | 0.045 | 0.042 |
| Aluminium (Al) | mg/l | 0.3 | 5 | < 0.002 | < 0.002 | < 0.002 | < 0.002 | < 0.002 | < 0.002 | < 0.002 | < 0.002 |
| Iron (Fe) | mg/l | 0.3 | 5 | < 0.004 | < 0.004 | < 0.004 | <0.004 | <0.004 | <0.004 | <0.004 | < 0.004 |
| Manganese (Mn) | mg/l | 0.1 | 0.02 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| Chromium (Cr) | mg/l | 0.05 | - | <0.003 | <0.003 | < 0.003 | <0.003 | <0.003 | <0.003 | < 0.003 | <0.003 |
| Copper (Cu) | mg/l | 2 | 0.2 | < 0.002 | < 0.002 | < 0.002 | < 0.002 | < 0.002 | <0.002 | < 0.002 | < 0.002 |
| Nickel (Ni) | mg/l | 0.07 | 0.2 | <0.002 | < 0.002 | < 0.002 | <0.002 | <0.002 | <0.002 | <0.002 | < 0.002 |



ENVIRONMENTAL MONITORING

| DATA TABLE: | | | |
|------------------|--|---------------|----------------|
| PROJECT NAME | Groundwater Complete - Rietkol Hydrocencus | DATE COMPILED | 28 March 2018 |
| ASSESSMENT SET 1 | SANS 241-1:2015 Drinking Water Standard (SABS, 2015) | SELECTED DATE | 15 March 2018 |
| ASSESSMENT SET 2 | DWAF (1996) SAWQG Agricultural Use Irrigation TWQGR for Crop Yield | COMPILED BY | Werner Rossouw |

Value exceeds the assessment set 1

| VARIABLE | UNITS | ASSESSMENT | ASSESSMENT | MONITORING LOCALITIES | | | | | |
|--|------------|------------|------------|-----------------------|---------------------|---------------------|--------|--|--|
| VARIABLE | UNITS | 1 | 2 | Hoewe276 Locality 1 | Hoewe276 Locality 2 | Hoewe277 Locality 1 | RKLX | | |
| pH @ 25°C | рН | 5.0/9.7 | 6.5/8.4 | 8.18 | 7.12 | 8.07 | 7.74 | | |
| Electrical conductivity (EC) @ 25°C | mS/m | 170 | 40 | 32.1 | 29.6 | 33.1 | 65.1 | | |
| Total dissolved solids (TDS) | mg/l | 1200 | - | 200 | 177 | 202 | 416 | | |
| Total hardness | mg CaCO3/I | - | - | 177 | 152 | 171 | 232 | | |
| Calcium (Ca) | mg/l | - | - | 29.6 | 30.8 | 33 | 44.5 | | |
| Magnesium (Mg) | mg/l | - | - | 25 | 18.2 | 21.4 | 29.5 | | |
| Sodium (Na) | mg/l | 200 | 70 | 7.62 | 5.89 | 8.9 | 74.4 | | |
| Potassium (K) | mg/l | - | - | 2.14 | 1.5 | 1.87 | 4.56 | | |
| Total alkalinity | mg CaCO3/I | - | - | 169 | 120 | 156 | 233 | | |
| Chloride (CI) | mg/l | 300 | 100 | 5.43 | 6.38 | 9.16 | 85 | | |
| Sulphate (SO ₄) | mg/l | 500 | - | 23 | 6.93 | 9.78 | 33.7 | | |
| Nitrate (NO ₃) as N | mg/l | 11 | - | 0.912 | 7.58 | 5.23 | 0.339 | | |
| Ammonium (NH ₄) as N | mg/l | 1.5 | - | 0.192 | 0.192 | 0.036 | 0.137 | | |
| Orthophosphate (PO ₄) as P | mg/l | - | - | <0.005 | < 0.005 | < 0.005 | <0.005 | | |
| Aluminium (Al) | mg/l | 0.3 | 5 | 0.01 | < 0.002 | < 0.002 | <0.002 | | |
| Iron (Fe) | mg/l | 0.3 | 5 | <0.004 | <0.004 | <0.004 | <0.004 | | |
| Manganese (Mn) | mg/l | 0.1 | 0.02 | < 0.001 | 0.038 | < 0.001 | 0.193 | | |
| Chromium (Cr) | mg/l | 0.05 | - | <0.003 | <0.003 | < 0.003 | <0.003 | | |
| Copper (Cu) | mg/l | 2 | 0.2 | <0.002 | <0.002 | < 0.002 | <0.002 | | |
| Nickel (Ni) | mg/l | 0.07 | 0.2 | <0.002 | <0.002 | <0.002 | <0.002 | | |

Appendix C

Locality assessment reports



| | DRINKING WATER LOCALITY | ASSESSMENT REPORT | | |
|-------------|--|--|------------------------------|--|
| LOCALITY | LOCALITY DESCRIPTION | DATE RANGE | WRC (1998) CLASSIFICATION | WATER QUALITY DESCRIPTIO |
| 148PB1 | | 2016-01-01 to 2018-04-30 | | pH Neutral Hardness Hard |
| NO DIACE | Applicable guideline/permit conditions | Exceedance of applicable guideline/permit conditions | | Salinity Non Saline Salts Low Nutrients High |
| | SANS 241-1:2015 Drinking Water Standard (SABS, 2015) | NO3-N | Class 2 - Marginal | Macro Metals Low Micro Metals Low |
| AKAILABLE | DWAF (1996) SAWQG Agricultural Use Irrigation TWQGR for Crop Yield | EC | | Trace Metals Low Turbidity (NTU) - |
| | SAWQG Volume 5, Agricultural Use, Livestock Watering, Cattle | | | TVC - E.coli - |
| S0 E0 | Additional Comments | | | T.coli - |
| LOCALITY | LOCALITY DESCRIPTION | DATE RANGE | WRC (1998) CLASSIFICATION | WATER QUALITY DESCRIPTIO |
| 153MT2 | | 2016-01-01 to 2018-04-30 | | pH Neutral Hardness Hard |
| | Applicable guideline/permit conditions | Exceedance of applicable guideline/permit conditions | | Salinity Non Saline Salts Low |
| -`NR IMAGI# | SANS 241-1:2015 Drinking Water Standard (SABS, 2015) | | Class 1 - Good | Nutrients Low Macro Metals Low |
| | DWAF (1996) SAWQG Agricultural Use Irrigation TWQGR for Crop Yield | | | Micro Metals Low Trace Metals Low Turbidity (NTU) |
| MANAGEM | SAWQG Volume 5, Agricultural Use, Livestock Watering, Cattle | | | TVC - E.coli - |
| S0 E0 | Additional Comments | | | T.coli - |
| LOCALITY | LOCALITY DESCRIPTION | DATE RANGE | WRC (1998) CLASSIFICATION | WATER QUALITY DESCRIPTIO |
| 202Unex2 | | 2016-01-01 to 2018-04-30 | | pH Neutral Hardness Moderately s |
| Aug. | Applicable guideline/permit conditions | Exceedance of applicable guideline/permit conditions | | Salinity Non Saline Salts Low |
| | SANS 241-1:2015 Drinking Water Standard (SABS, 2015) | NO3-N | Class 2 - Marginal | Nutrients High Macro Metals Low |
| | DWAF (1996) SAWQG Agricultural Use Irrigation TWQGR for Crop Yield | | | Micro Metals Low Trace Metals Low |
| | SAWQG Volume 5, Agricultural Use, Livestock Watering, Cattle | | | Turbidity (NTU) - TVC - E.coli - |
| S0 E0 | Additional Comments | | | T.coli - |

| | DRINKING WATER LOCALIT | Y ASSESSMENT REPORT | | |
|-------------|--|--|------------------------------|-------------------------------------|
| LOCALITY | LOCALITY DESCRIPTION | DATE RANGE | WRC (1998) CLASSIFICATION | WATER QUALITY DESCRIPTION |
| 208BM | | 2016-01-01 to 2018-04-30 | | pH Neutral |
| | | | | Hardness Hard |
| 1190 | | | | Salinity Non Saline |
| | Applicable guideline/permit conditions | Exceedance of applicable guideline/permit conditions | | Salts Low |
| | SANS 241-1:2015 Drinking Water Standard (SABS, 2015) | | Class 1 - Good | Nutrients Low Macro Metals Low |
| Ed | State 241 1.2010 Billing Water Standard (OxBO, 2010) | | Class 1 - Good | Micro Metals Low |
| 444 | DWAF (1996) SAWQG Agricultural Use Irrigation TWQGR for Crop Yield | | | Trace Metals Low |
| | | | - | Turbidity (NTU) - |
| A. 《基本》 | SAWQG Volume 5, Agricultural Use, Livestock Watering, Cattle | | | TVC - |
| | | | | E.coli - |
| S0 E0 | Additional Comments | | | T.coli - |
| | | | | |
| LOCALITY | LOCALITY DESCRIPTION | DATE RANGE | WRC (1998) CLASSIFICATION | WATER QUALITY DESCRIPTION |
| | | | | QUALITY DESCRIPTION |
| 213JW1 | _ | 2016-01-01 to 2018-04-30 | | pH Neutral |
| | | | | Hardness Moderately hard |
| | | | | Salinity Non Saline |
| | Applicable guideline/permit conditions | Exceedance of applicable guideline/permit conditions | | Salts Low |
| - NO IMAGE: | | | | Nutrients Low |
| | SANS 241-1:2015 Drinking Water Standard (SABS, 2015) | | Class 0 - Ideal | Macro Metals Low |
| | DWAF (1996) SAWQG Agricultural Use Irrigation TWQGR for Crop Yield | | | Micro Metals Low Trace Metals Low |
| 14.54 P | 2 Will (1995) 27 Wild Anglicatatian God linguistri Wall to Grop Hold | | 1 | Turbidity (NTU) - |
| AVAILABLE | SAWQG Volume 5, Agricultural Use, Livestock Watering, Cattle | | | TVC - |
| | | | | E.coli - |
| S0 E0 | Additional Comments | | | T.coli - |
| | | | | |
| LOCALITY | LOCALITY DESCRIPTION | DATE RANGE | WRC (1998) CLASSIFICATION | WATER QUALITY DESCRIPTION |
| 222PK | | 2016-01-01 to 2018-04-30 | | pH Neutral Hardness Moderately hard |
| | | | | Salinity Non Saline |
| | Applicable guideline/permit conditions | Exceedance of applicable guideline/permit conditions | | Salts Low |
| | | | | Nutrients Low |
| | SANS 241-1:2015 Drinking Water Standard (SABS, 2015) | | Class 0 - Ideal | Macro Metals Low |
| | DWAE (4000) CANOO Assistational Health St. Throop (1000) | 0. | | Micro Metals Low |
| | DWAF (1996) SAWQG Agricultural Use Irrigation TWQGR for Crop Yield | Cu | | Trace Metals Medium |
| | SAWQG Volume 5, Agricultural Use, Livestock Watering, Cattle | Cu | | Turbidity (NTU) - TVC - |
| | | | | E.coli - |
| S0 E0 | Additional Comments | | | T.coli - |
| | | • | | |

| | DRINKING WATER LOCALIT | Y ASSESSMENT REPORT | | | |
|--|--|--|------------------------------|-----------------|-------------------|
| LOCALITY | LOCALITY DESCRIPTION | DATE RANGE | WRC (1998) CLASSIFICATION | | TER ESCRIPTION |
| 226BKM | 7 | 2016-01-01 to 2018-04-30 | | pН | Neutral |
| 2203.411 | | | | Hardness | Moderately hard |
| | | | | Salinity | Non Saline |
| | Applicable guideline/permit conditions | Exceedance of applicable guideline/permit conditions | | Salts | Low |
| | | | | Nutrients | Low |
| | SANS 241-1:2015 Drinking Water Standard (SABS, 2015) | | Class 0 - Ideal | Macro Metals | Low |
| | | | | Micro Metals | Low |
| | DWAF (1996) SAWQG Agricultural Use Irrigation TWQGR for Crop Yield | | | Trace Metals | Low |
| THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW | | | | Turbidity (NTU) | - |
| 400 | SAWQG Volume 5, Agricultural Use, Livestock Watering, Cattle | | | TVC | - |
| | | | | E.coli | - |
| S0 E0 | Additional Comments | | | T.coli | - |
| | | | | | |
| LOCALITY | LOCALITY DESCRIPTION | DATE RANGE | WRC (1998) CLASSIFICATION | | TER ESCRIPTION |
| 229HDP | 7 | 2016-01-01 to 2018-04-30 | | pH | Alkaline/Basic |
| | | | | Hardness | Moderately soft |
| | | | | Salinity | Non Saline |
| | Applicable guideline/permit conditions | Exceedance of applicable guideline/permit conditions | | Salts | Low |
| | | | | Nutrients | Low |
| | SANS 241-1:2015 Drinking Water Standard (SABS, 2015) | | Class 0 - Ideal | Macro Metals | Low |
| | | | | Micro Metals | Low |
| | DWAF (1996) SAWQG Agricultural Use Irrigation TWQGR for Crop Yield | pH | | Trace Metals | Low |
| | | | | Turbidity (NTU) | - |
| 1 | SAWQG Volume 5, Agricultural Use, Livestock Watering, Cattle | | | TVC | - |
| | | | | E.coli | - |
| S0 E0 | Additional Comments | | | T.coli | - |
| | | | | | |
| LOCALITY | LOCALITY DESCRIPTION | DATE RANGE | WRC (1998) CLASSIFICATION | | TER ESCRIPTION |
| 235LP3 | | 2016-01-01 to 2018-04-30 | | pН | Neutral |
| | ╡ | | | Hardness | Slightly Hard |
| | | | | Salinity | Non Saline |
| | Applicable guideline/permit conditions | Exceedance of applicable guideline/permit conditions | | Salts | Low |
| | | | | Nutrients | Low |
| | SANS 241-1:2015 Drinking Water Standard (SABS, 2015) | | Class 0 - Ideal | Macro Metals | Low |
| | | | | Micro Metals | Low |
| | DWAF (1996) SAWQG Agricultural Use Irrigation TWQGR for Crop Yield | | | Trace Metals | Low |
| | | | | Turbidity (NTU) | - |
| | SAWQG Volume 5, Agricultural Use, Livestock Watering, Cattle | | | TVC | - |
| | | | | E.coli | - |
| S0 E0 | Additional Comments | | | T.coli | - |

| | DRINKING WATER LOCALIT | Y ASSESSMENT REPORT | | |
|---|--|--|------------------------------|-------------------------------------|
| LOCALITY | LOCALITY DESCRIPTION | DATE RANGE | WRC (1998) CLASSIFICATION | WATER QUALITY DESCRIPTION |
| 278JDP02 | _ | 2016-01-01 to 2018-04-30 | | pH Alkaline/Basic |
| | | | | Hardness Moderately hard |
| | | | | Salinity Non Saline |
| | Applicable guideline/permit conditions | Exceedance of applicable guideline/permit conditions | | Salts Low |
| | 0.11/0.44 + 0.045 B : 1: W. + 0: 1 1/0.150 0.045) | | | Nutrients Low |
| | SANS 241-1:2015 Drinking Water Standard (SABS, 2015) | | Class 0 - Ideal | Macro Metals Low Micro Metals Low |
| | DWAF (1996) SAWQG Agricultural Use Irrigation TWQGR for Crop Yield | pH | | Micro Metals Low Trace Metals Low |
| | - · · · · (· · · · ·) - · · · · · · · · · · · · · | FIT | | Turbidity (NTU) - |
| | SAWQG Volume 5, Agricultural Use, Livestock Watering, Cattle | | | TVC - |
| The second of the second | | | | E.coli - |
| S0 E0 | Additional Comments | | | T.coli - |
| | | | | |
| LOCALITY | LOCALITY DESCRIPTION | DATE RANGE | WRC (1998) CLASSIFICATION | WATER QUALITY DESCRIPTION |
| Hoewe276 Locality 1 | | 2016-01-01 to 2018-04-30 | | pH Neutral |
| Floewez70 Locality 1 | _ | 2010 01 01 10 2010 04 00 | | Hardness Moderately hard |
| | | | | Salinity Non Saline |
| | Applicable guideline/permit conditions | Exceedance of applicable guideline/permit conditions | | Salts Low |
| | | | | Nutrients Low |
| | SANS 241-1:2015 Drinking Water Standard (SABS, 2015) | | Class 0 - Ideal | Macro Metals Low |
| NATIONAL PROPERTY. | | | | Micro Metals Low |
| | DWAF (1996) SAWQG Agricultural Use Irrigation TWQGR for Crop Yield | | | Trace Metals Low |
| 100 m | SAWQG Volume 5, Agricultural Use, Livestock Watering, Cattle | | | Turbidity (NTU) - |
| | SAWQG Volume 5, Agricultural Ose, Livestock Watering, Cattle | | | TVC - E.coli - |
| S0 E0 | Additional Comments | | | T.coli - |
| | | | | |
| LOCALITY | LOCALITY DESCRIPTION | DATE RANGE | WRC (1998) CLASSIFICATION | WATER QUALITY DESCRIPTION |
| Hoewe276 Locality 2 | | 2016-01-01 to 2018-04-30 | | pH Neutral Hardness Moderately hard |
| | | | | Salinity Non Saline |
| Service Comments | Applicable guideline/permit conditions | Exceedance of applicable guideline/permit conditions | | Salts Low |
| | SANS 241-1:2015 Drinking Water Standard (SABS, 2015) | | Class 1 Cass | Nutrients Medium |
| | OARO 241-1.2010 Diffixing Water Standard (SABS, 2013) | | Class 1 - Good | Macro Metals Low Micro Metals Low |
| | DWAF (1996) SAWQG Agricultural Use Irrigation TWQGR for Crop Yield | Mn | | Trace Metals Low |
| | ,, | | | Turbidity (NTU) - |
| | SAWQG Volume 5, Agricultural Use, Livestock Watering, Cattle | | | TVC - |
| (A) | | | | E.coli - |
| S0 E0 | Additional Comments | | | T.coli - |
| · · · · · · · · · · · · · · · · · · · | | | | |

| | DRINKING WATER LOCALIT | Y ASSESSMENT REPORT | | |
|---------------------|--|--|------------------------------|--|
| LOCALITY | LOCALITY DESCRIPTION | DATE RANGE | WRC (1998) CLASSIFICATION | WATER QUALITY DESCRIPTION |
| Hoewe277 Locality 1 | - | 2016-01-01 to 2018-04-30 | | pH Neutral |
| | | | | Hardness Moderately hard |
| | | | | Salinity Non Saline |
| | Applicable guideline/permit conditions | Exceedance of applicable guideline/permit conditions | | Salts Low |
| | OANO OA4 4:0045 District Water Otandard (OADO, 0045) | | | Nutrients Low |
| | SANS 241-1:2015 Drinking Water Standard (SABS, 2015) | | Class 0 - Ideal | Macro Metals Low Micro Metals Low |
| | DWAF (1996) SAWQG Agricultural Use Irrigation TWQGR for Crop Yield | | | Micro Metals Low Trace Metals Low |
| | 2 Will (1995) Still da Fightschald See Hilgaden Fire da Filo | | | Turbidity (NTU) - |
| | SAWQG Volume 5, Agricultural Use, Livestock Watering, Cattle | | | TVC - |
| | | | | E.coli - |
| S0 E0 | Additional Comments | | | T.coli - |
| | · | • | | |
| | | | | |
| LOCALITY | LOCALITY DESCRIPTION | DATE RANGE | WRC (1998) CLASSIFICATION | WATER |
| EGGAEITT | | | | QUALITY DESCRIPTION |
| D 00 | | 0040 04 04 1- 0040 04 00 | | The state of the s |
| Res 02 | - | 2016-01-01 to 2018-04-30 | | pH Neutral Hardness Hard |
| | | | | Salinity Non Saline |
| | Applicable guideline/permit conditions | Exceedance of applicable guideline/permit conditions | | Salts Low |
| | , | ,, , | | Nutrients Low |
| | SANS 241-1:2015 Drinking Water Standard (SABS, 2015) | | Class 1 - Good | Macro Metals Low |
| | | | 1 | Micro Metals Low |
| | DWAF (1996) SAWQG Agricultural Use Irrigation TWQGR for Crop Yield | EC | | Trace Metals Low |
| | | | | Turbidity (NTU) - |
| 7 | SAWQG Volume 5, Agricultural Use, Livestock Watering, Cattle | | | TVC - |
| | | | | E.coli - |
| S0 E0 | Additional Comments | | | T.coli - |
| | | | | |
| | LOCALITY DECODIDATION | DATE DANCE | WRC (1998) | MATER |
| LOCALITY | LOCALITY DESCRIPTION | DATE RANGE | CLASSIFICATION | WATER QUALITY DESCRIPTION |
| | | | | QUALITY DESCRIPTION |
| RKLX | | 2016-01-01 to 2018-04-30 | | pH Neutral |
| | | | | Hardness Hard |
| | | | | Salinity Non Saline |
| | Applicable guideline/permit conditions | Exceedance of applicable guideline/permit conditions | | Salts Low |
| | CANIC 044 1:0045 Deinking Water Chards at (CADO 0045) | Ma | Q1 | Nutrients Low |
| | SANS 241-1:2015 Drinking Water Standard (SABS, 2015) | Mn | Class 1 - Good | Macro Metals Low |
| | DWAF (1996) SAWQG Agricultural Use Irrigation TWQGR for Crop Yield | EC,Na,Mn | | Micro Metals Medium Trace Metals Low |
| | The (1888) S. Mad Agricollular 930 inigation (1944) Treat (1876) Tield | 20,10,111 | | Turbidity (NTU) - |
| | SAWQG Volume 5, Agricultural Use, Livestock Watering, Cattle | | | TVC - |
| | | | | E.coli - |
| S0 E0 | Additional Comments | | | T.coli - |
| | • | | | |

| | DRINKING WATER LOCALITY | ASSESSMENT REPORT | | |
|--|--|--|------------------------------|---|
| LOCALITY | LOCALITY DESCRIPTION | DATE RANGE | WRC (1998) CLASSIFICATION | WATER QUALITY DESCRIPTION |
| Section 15.2 | | 2016-01-01 to 2018-04-30 | | pH Neutral |
| | | | | Hardness Slightly Hard |
| N 10 10 10 10 10 10 10 10 10 10 10 10 10 | | | | Salinity Non Saline |
| | Applicable guideline/permit conditions | Exceedance of applicable guideline/permit conditions | | Salts Low |
| | SANS 241-1:2015 Drinking Water Standard (SABS, 2015) | | Class 0 - Ideal | Nutrients Low Macro Metals Low |
| | OANO 241-1.2010 Dilliking Water Standard (OADO, 2010) | | Class 0 - lueal | Micro Metals Low |
| Color of the Assessed Color of | DWAF (1996) SAWQG Agricultural Use Irrigation TWQGR for Crop Yield | | | Trace Metals Low |
| 1000 | | | | Turbidity (NTU) - |
| | SAWQG Volume 5, Agricultural Use, Livestock Watering, Cattle | | | TVC - |
| The state of the s | | | | E.coli - |
| S0 E0 | Additional Comments | | | T.coli - |
| | | | | |
| | | | WRC (1998) | |
| LOCALITY | LOCALITY DESCRIPTION | DATE RANGE | CLASSIFICATION | WATER |
| - | | | | QUALITY DESCRIPTION |
| Section 2.1 | | 2016-01-01 to 2018-04-30 | | pH Neutral |
| | | | | Hardness Moderately hard |
| | | | | Salinity Non Saline |
| | Applicable guideline/permit conditions | Exceedance of applicable guideline/permit conditions | | Salts Low |
| NO IMAGE: | | | | Nutrients Medium |
| | SANS 241-1:2015 Drinking Water Standard (SABS, 2015) | | Class 1 - Good | Macro Metals Low |
| | | | | Micro Metals Low |
| | DWAF (1996) SAWQG Agricultural Use Irrigation TWQGR for Crop Yield | | | Trace Metals Low |
| AVAILABLE | SAWQG Volume 5, Agricultural Use, Livestock Watering, Cattle | | | Turbidity (NTU) - TVC - |
| | OAWQQ Volume 3, Agricultural 056, Livestock Watering, Oattie | | | TVC - E.coli - |
| S0 E0 | Additional Comments | | | T.coli - |
| L. | | | | |
| | | | | |
| LOOALITY | LOCALITY DESCRIPTION | DATE RANGE | WRC (1998) CLASSIFICATION | WATER |
| LOCALITY | | | CLASSIFICATION | QUALITY DESCRIPTION |
| | | | | |
| Section 24.13 | | 2016-01-01 to 2018-04-30 | | pH Neutral |
| | | | | Hardness Moderately hard Salinity Non Saline |
| | Applicable guideline/permit conditions | Exceedance of applicable guideline/permit conditions | | Salts Low |
| the set of the set of the set | | | | Nutrients Low |
| NU INACIE | SANS 241-1:2015 Drinking Water Standard (SABS, 2015) | | Class 0 - Ideal | Macro Metals Low |
| | | | | Micro Metals Low |
| | DWAF (1996) SAWQG Agricultural Use Irrigation TWQGR for Crop Yield | | | Trace Metals Low |
| | | | | Turbidity (NTU) - |
| AKAILABLE . | SAWQG Volume 5, Agricultural Use, Livestock Watering, Cattle | | | TVC - |
| S0 E0 | Additional Comments | | | E.coli - |
| 50 E0 | Additional Comments | | | T.coli - |

| | DRINKING WATER LOCALIT | Y ASSESSMENT REPORT | | | |
|-----------------------|--|--|------------------------------|-----------------|-----------------------------------|
| LOCALITY | LOCALITY DESCRIPTION | DATE RANGE | WRC (1998) CLASSIFICATION | | TER ESCRIPTION |
| Section 24.5 | _ | 2016-01-01 to 2018-04-30 | | pН | Neutral |
| | | | | Hardness | Moderately hard |
| Editor and the second | | | | Salinity | Non Saline |
| | Applicable guideline/permit conditions | Exceedance of applicable guideline/permit conditions | | Salts | Low |
| | | | | Nutrients | Low |
| 10.5 | SANS 241-1:2015 Drinking Water Standard (SABS, 2015) | | Class 0 - Ideal | Macro Metals | Low |
| | | | | Micro Metals | Low |
| | DWAF (1996) SAWQG Agricultural Use Irrigation TWQGR for Crop Yield | EC | | Trace Metals | Low |
| | | | | Turbidity (NTU) | - |
| | SAWQG Volume 5, Agricultural Use, Livestock Watering, Cattle | | | TVC | - |
| 20.50 | A 18% - 10 | | | E.coli | - |
| S0 E0 | Additional Comments | | | T.coli | - |
| | | | | | |
| LOCALITY | LOCALITY DESCRIPTION | DATE RANGE | WRC (1998) CLASSIFICATION | | TER ESCRIPTION |
| Continu CO 4 | _ | 2016-01-01 to 2018-04-30 | | -11 | Allertine (Design |
| Section 63.1 | | 2010-01-01 (0 2010-04-30 | | pH Hardness | Alkaline/Basic Moderately hard |
| | | | | Salinity | Non Saline |
| | Applicable guideline/permit conditions | Exceedance of applicable guideline/permit conditions | | Salts | Low |
| NUS INDAGES. | PP 3 | | | Nutrients | Low |
| ESSE PERSONAL | SANS 241-1:2015 Drinking Water Standard (SABS, 2015) | | Class 0 - Ideal | Macro Metals | Low |
| | | | | Micro Metals | Low |
| | DWAF (1996) SAWQG Agricultural Use Irrigation TWQGR for Crop Yield | pH,EC | | Trace Metals | Low |
| | | | | Turbidity (NTU) | - |
| 384600 LAGALET _ | SAWQG Volume 5, Agricultural Use, Livestock Watering, Cattle | | | TVC | - |
| | | | | E.coli | - |
| S0 E0 | Additional Comments | | | T.coli | - |
| | | | | | |
| LOCALITY | LOCALITY DESCRIPTION | DATE RANGE | WRC (1998) CLASSIFICATION | WA | TER |
| LOCALITY | | | CLASSIFICATION | QUALITY D | ESCRIPTION |
| Section 71.4 | | 2016-01-01 to 2018-04-30 | | pН | Neutral |
| | \dashv | | | Hardness | Moderately hard |
| | | | | Salinity | Non Saline |
| | Applicable guideline/permit conditions | Exceedance of applicable guideline/permit conditions | | Salts | Low |
| | | | | Nutrients | Low |
| | SANS 241-1:2015 Drinking Water Standard (SABS, 2015) | | Class 0 - Ideal | Macro Metals | Low |
| | | | | Micro Metals | Low |
| | DWAF (1996) SAWQG Agricultural Use Irrigation TWQGR for Crop Yield | | | Trace Metals | Low |
| | | | | Turbidity (NTU) | - |
| | SAWQG Volume 5, Agricultural Use, Livestock Watering, Cattle | | | TVC | - |
| | | | | E.coli | - |
| S0 E0 | Additional Comments | | | T.coli | - |

| | DRINKING WATER LOCALITY | ASSESSMENT REPORT | | | |
|--------------|--|--|------------------------------|------------------------------|----------------------------|
| LOCALITY | LOCALITY DESCRIPTION | DATE RANGE | WRC (1998) CLASSIFICATION | | TER ESCRIPTION |
| Section 72.5 | | 2016-01-01 to 2018-04-30 | | pH Hardness | Neutral Moderately hard |
| | Applicable guideline/permit conditions | Exceedance of applicable guideline/permit conditions | | Salinity Salts | Non Saline Low |
| | SANS 241-1:2015 Drinking Water Standard (SABS, 2015) | | Class 0 - Ideal | Nutrients Macro Metals | Low Low |
| La Maria | DWAF (1996) SAWQG Agricultural Use Irrigation TWQGR for Crop Yield | | | Micro Metals Trace Metals | Low |
| | SAWQG Volume 5, Agricultural Use, Livestock Watering, Cattle | | | Turbidity (NTU) TVC | - |
| S0 E0 | Additional Comments | | | E.coli T.coli | - |

Appendix D

Hydrocensus information forms





leaders in enuironmental monitoring

address: 89 regency drive, R21 corporate park, centurion postal: p.o. box 905008, garsfontein, 0042 web: www.aquatico.co.za office: 012 450 3800 • fax: 012 450 3851

| PROJECT DETAILS | Rietkol Project |
|-----------------|-----------------|
| | |

| | | onal Details | | |
|------------------|--------------|-------------------------------|------------|--------------------------|
| Physical address | MODE | PER EAST ORCHA HOLDING 143 | RDS AH, | |
| Postal address | РО | BOX 342, SUNDRA | A, 2200 | No Profile Picture Taken |
| District/Town | | DELMAS, 2210 | | No Prome Picture Taken |
| Owner | | Cheryl Middledito | h | |
| Contact person | | Cheryl Middledito | h | |
| Cell | 082 564 5044 | Tel | 0136679661 | |
| Fax | | - | | |
| E-mail | cl | neryl@eloffbelting.c | Signature | |

143 CM1 143 CM2

| | Source Information | | | | | | | | | | | | | | |
|-----------------------------------|---------------------------------------|--------------|---|----------------|------------------------------------|-----------|---------|-------------------|--------|----|-----|---|--|--|--|
| Project | ct Rietkol Project | | | | Locality number 1 | | | | 143CM1 | | | | | | |
| Coordinates | | X-coordinate | | 28.59538 | Y-coordinate 26.12344 Z-coordinate | | | Z-coordinate 1581 | | | 581 | | | | |
| Locality type | | Borehole | | | Dat | e drilled | Unknown | | | | | | | | |
| Borehole depth | - | | Bor | ehole diameter | | Unknown | | Colla | r heig | ht | | - | | | |
| Estimated yield per hou | rield per hour - Test certificate Yes | | | | | - | No | | - | | | | | | |
| Reservoir & size 5000 I JOJO Tank | | | | | | | | | | | | | | | |
| Liter | | Submersible | nersible X Mono pump - Windmill - Hand pump - Other | | | | | | | | - | | | | |

| Current* and Future Use Information | | | | | | | | | | |
|-------------------------------------|------------|---|--------------------|---|----------|-----------|--|--|--|--|
| In use Yes X No - Other - | | | | | | | | | | |
| Current and future use | Irrigation | - | Livestock watering | - | Domestic | X Other - | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

| | | Samplir | ng Information | |
|----------------------------|---|---------------------------------|----------------------|--|
| Sampler Sample type | Werner Rossouw Inorganic | Date sampled Static water level | 11/04/2016 | |
| Short locality descripool. | ption: Borehole near mai | n house aviary, next to b | ig tree and swimming | |
| | taken from storage tank. alled pump or that the ho | | ed either due to a | |

| | | | | Source | e Inf | ormation | 400000 | | | | | | | | |
|--------------------------|-------------------|-----------------|----------------|----------------------|-----------------|---------------|--------|-------------|--------------|------|-------|----|-----|---|---|
| | | | | Source | 5 IIIII | omation | | | | | | | | | |
| Project | | Rietkol Project | | | Locality number | | | | 143 | CM2 | | | | | |
| Coordinates | X-coordinate | | 28.59421 | Y | -coordinate | 26.12361 | | | Z-coordinate | | | 15 | 584 | | |
| Locality type | | Borehole | | | Dat | e drilled | | | Unk | nown | | | | | |
| Borehole depth | 52 m Borehole dia | | ehole diameter | Unknown Colla | | | | ar height - | | | | | | | |
| Estimated yield per hour | | - | М | | Tes | t certificate | | | Yes | ; | | - | No | | - |
| Reservoir & size | None | | 1 | | | | | | | | | | | | |
| Liter | | Submersible | Х | Mono pump | - | Windmill | - | Hand pur | np | - | Other | | | - | |
| | | | | | | | | | | | | | | | |

| Current* and Future Use Information | | | | | | | | | | |
|-------------------------------------|------------|---|--------------------|---|----------|---|-------|---|--|--|
| In use | Yes | - | No | Х | Other | - | | | | |
| Current and future use | Irrigation | - | Livestock watering | - | Domestic | - | Other | - | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

| Sampler | Werner Rossouw | Date sampled | 11/04/2016 | |
|-------------|---------------------------|---|------------|--|
| Sample type | | Static water level | 21.50 m | |
| | ption: Borehole next to w | orkers houses. fit bailer to get water sam | ple. | |

| | | | | Sourc | e In | formation | | | | | | | | |
|------------------------|----------------------------|-------------|-----|------------------|-----------------|--------------|-----------------|-----------|-----------|--------------|-------|---|------|--|
| Project | Rietkol Project | | | | Locality number | | | | 143CM3 | | | | | |
| Coordinates | rdinates X-coordinate 2 | | | | , | Y-coordinate | dinate 26.12273 | | | Z-coordinate | | | 1586 | |
| Locality type | | Borehole | | | Date drilled | | | | Unknown | | | | | |
| Borehole depth | - | | Bor | ehole diameter | Unknown Colla | | | Collar h | ar height | | | - | | |
| Estimated yield per ho | Estimated yield per hour - | | | Test certificate | | | | Yes | | | - N | 0 | - | |
| Reservoir & size | - | | | | | | | | | | | | | |
| Liter | | Submersible | X | Mono pump | - | Windmill | - | Hand pump |) | - | Other | | - | |

| Current* and Future Use Information | | | | | | | | | | |
|-------------------------------------|------------|---|--------------------|---|----------|---|-------|---|--|--|
| In use | Yes | - | No | Х | Other | - | | | | |
| Current and future use | Irrigation | - | Livestock watering | - | Domestic | - | Other | - | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

| Sampling Information | | | | | | | | |
|----------------------|--------------------------|--------------------|--------------------|--|--|--|--|--|
| Sampler | Werner Rossouw | Date sampled | 11/04/2016 | | | | | |
| Sample type | | Static water level | - | | | | | |
| | | | | | | | | |
| | oump and pipes installed | | CHARL CHARLEST AND | | | | | |



address: 89 regency drive, R21 corporate park, centurion postal: p.o. box 905008, garsfontein, 0042 web: www.aquatico.co.za office: 012 450 3800 • fax: 012 450 3851

PROJECT DETAILS

Rietkol Project

| | | Pers | onal Details | |
|------------------|--------------|----------------------------------|----------------------------|--------------------------|
| Physical address | | ER EAST ORCHA IOLDING 144 and | | |
| Postal address | PO E | 3OX 1137, DELMA | S 2211 | No Profile Picture Taken |
| District/Town | | DELMAS, 2210 | - No Profile Picture Taken | |
| Owner | | MBFI | | _ |
| Contact person | | Steven | | |
| Cell | 079 770 2554 | Tel | 082 238 0080 | - |
| Fax | | - | | |
| E-mail | | steven@mbfi.co.z | ra | Signature |



| | | | | Sourc | e In | formation | | | | | | | | | |
|------------------------|----|-----------------|-----------------|----------------|------|-----------------|-----|----------|--------|------|---------|---|----|-----|---|
| Project | | Rietkol Project | Rietkol Project | | | Locality number | | | | MBFI | 1 | | | | |
| Coordinates | | X-coordinate | | 28.59742 | \ | Y-coordinate | 26. | 12650 | | Z-co | ordinat | Э | 1: | 580 | |
| Locality type | | Borehole | | | Da | te drilled | | | Unk | nown | | | | | |
| Borehole depth | - | | Bor | ehole diameter | | - | | Colla | r heig | ght | | - | | | |
| Estimated yield per ho | ur | - | | | Tes | st certificate | | | Yes | ; | | - | No | | Х |
| Reservoir & size | - | | | | | | | | | | | | | | |
| Liter | | Submersible | X | Mono pump | - | Windmill | - | Hand pur | тр | - | Other | | | - | |

| Current* and Future Use Information | | | | | | | | | | | | | |
|-------------------------------------|------------|--------------------|--------------------|---|----------|---|-------|---|--|--|--|--|--|
| In use | Yes | Yes X No - Other - | | | | | | | | | | | |
| Current and future use | Irrigation | Х | Livestock watering | - | Domestic | - | Other | - | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| | | Samplir | g Information | |
|-------------|--------------------------|--------------------|---------------|--|
| Sampler | Carl | Date sampled | 01/04/2016 | |
| Sample type | Inorganic | Static water level | - | |
| | tion: Borehole inside co | concrete slab. | prop field. | |
| | | | | |

| | | | 400 | HA. 7015. | | VOICE | | | | | | | | | |
|-------------------------|--------|-----------------|------|----------------|--------|---------------|-----|----------|------|------|----------|-----|----|----|---|
| | | | | Source | e Info | ormation | | | | | | | | | |
| Project | | Rietkol Project | | | Loc | ality number | | | 1441 | MBFI | 2 | | | | |
| Coordinates | | X-coordinate | | 28.59564 | Y | -coordinate | 26. | 12549 | | Z-co | ordinate |) | 15 | 80 | |
| Locality type | | Borehole | | | Dat | e drilled | | | Unkı | nown | | | | | |
| Borehole depth | ± 70 m | | Bore | ehole diameter | | - | | Collar | heig | ht | | - | | | |
| Estimated yield per hou | ır | 1 | | | Tes | t certificate | | | Yes | | | - 1 | No | | Х |
| Reservoir & size | - | | 4 | | | | | | | | | | | | |
| Liter | | Submersible | x | Mono pump | - | Windmill | - | Hand pun | np | - | Other | | | - | |

| Current* and Future Use Information | | | | | | | | | | | | | |
|-------------------------------------|------------|--------------------|--------------------|---|----------|---|-------|---|--|--|--|--|--|
| In use | Yes | Yes X No - Other - | | | | | | | | | | | |
| Current and future use | Irrigation | Х | Livestock watering | - | Domestic | - | Other | - | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| Sampler | Carl | Date sampled | 01/04/2016 | |
|--------------------|---------------------------|--------------------|------------|----------|
| Sample type | Inorganic | Static water level | - | |
| | | | | * TILE 3 |
| Comments: No acces | ss to borehole due to a o | | | |

| | | | | Sourc | e l | nformation | | | | | | | | |
|------------------------|--------|-----------------|-----------------|-----------------|-----|-----------------|------|----------|-------|----------|----------|---|------|---|
| Project | | Rietkol Project | Rietkol Project | | | Locality number | | | | 144MBFI3 | | | | |
| Coordinates | | X-coordinate | | 28.59414 | | Y-coordinate | 26.1 | 12514 | | Z-co | ordinate |) | 1580 | |
| Locality type | | Borehole | | | D | ate drilled | | | Unl | known | | | | |
| Borehole depth | ± 70 m | | Bor | rehole diameter | | - | | Colla | r hei | ght | | - | | |
| Estimated yield per ho | ur | - | | | T | est certificate | | | Yes | 5 | | - | No | Х |
| Reservoir & size | - | | | | | | | | | | | | | |
| Liter | | Submersible | Х | Mono pump | Ι- | Windmill | - | Hand pur | пр | - | Other | | - | |

| Current* and Future Use Information | | | | | | | | | | | | | |
|--|--------------------|---|--------------------|---|----------|---|-------|---|--|--|--|--|--|
| In use | Yes X No - Other - | | | | | | | | | | | | |
| Current and future use | Irrigation | х | Livestock watering | - | Domestic | - | Other | - | | | | | |
| Water used in reverse osmosis for labs and drinking water. | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| | | Sampling | g Information | |
|-------------------|-------------------------|--------------------|---------------|--|
| Sampler | Carl | Date sampled | 01/04/2016 | |
| Sample type | Inorganic | Static water level | - | |
| omments: No acces | ss to borehole due to a | concrete slab. | | |



PROJECT DETAILS Rietkol Project

| | | Pers | onal Details | |
|------------------|--------------|-------------------------------|--------------|--------------------------|
| Physical address | МОДІ | DER EAST ORCHA HOLDING 148 | RDS AH, | |
| Postal address | | PO BOX 1443 NIG | EL | No Profile Picture Taken |
| District/Town | | DELMAS, 2210 | | No Frome Picture Taken |
| Owner | | PJ Booysen | | |
| Contact person | | PJ Booysen | | |
| Cell | 073 046 0189 | Tel | - | |
| Fax | | - | | |
| E-mail | | - | Signature | |



| | | | | Sourc | e In | nformation | | | | | | | | | |
|-------------------------|------|-----------------|-----|-----------------|-----------------------|-----------------|---|----------|--------------|-------|-------|------|-----|---|---|
| Project | | Rietkol Project | t | | Lo | cality number | | | 148 | BPB1 | | | | | |
| Coordinates | | X-coordinate | | 28.60159 | Y-coordinate 26.12526 | | | | Z-coordinate | | | 16 | 600 | | |
| Locality type | | Borehole | | | Da | ate drilled | | | Unl | known | | | | | |
| Borehole depth | - | | Во | rehole diameter | | 25 cm | | Colla | r hei | ght | | 0 cn | n | | |
| Estimated yield per hou | ır | - | | | Te | est certificate | | | Yes | 5 | | - | No | | - |
| Reservoir & size | None | | | | | | | | | | | | | | |
| Liter | | Submersible | T - | Mono pump | - | Windmill | - | Hand pur | тр | - | Other | | | - | |
| | | | | | | | | | | | | | | | |

| | | | Current* and I | Future | Use Information | | | |
|------------------------|------------|---|--------------------|--------|-----------------|---|-------|---|
| In use | Yes | - | No | Х | Other | - | | |
| Current and future use | Irrigation | - | Livestock watering | - | Domestic | - | Other | - |
| | | | | | | | | |
| | | | | | | | | |

| | | Samplin | g Information | |
|------------------------|------------------------------|---------------------------------|-----------------------|-------------------------------|
| Sampler Sample type | Deon Inorganic | Date sampled Static water level | 01/04/2016 37.52 m | |
| Short locality descrip | otion: Borehole next to h | ouse near the entrance | | No Locality Picture Available |
| | | | | |
| Comments: Borehole | e Is not in use as it is too | shallow to fit pump. | | |



address: 89 regency drive, R21 corporate park, centurion postal: p.o. box 905008, garsfontein, 0042 web: www.aquatico.co.za office: 012 450 3800 • fax: 012 450 3851

PROJECT DETAILS Rietkol Project

| | | Pers | onal Details | |
|------------------|--------------|-------------------------------|--------------|--------------------------|
| Physical address | МОДІ | DER EAST ORCHA HOLDING 150 | | |
| Postal address | РО | BOX 263, DELMAS | S, 2210 | No Profile Picture Taken |
| District/Town | | DELMAS, 2210 | | No Profile Picture Laken |
| Owner | | Mike Thorn | | |
| Contact person | | Douglas Cobbled | ick | |
| Cell | 083 251 2844 | Tel | - | |
| Fax | | - | | |
| E-mail | | mcvt@webafrica.or | g.za | Signature |



| | | | | Sourc | e In | formation | | | | | | | | | |
|-------------------------|-------|----------------|-------|-----------------|------|-----------------|------|----------|------|------|----------|----|----|------------|---|
| Project | | Rietkol Projec | t | | Lo | cality number | | | 153 | MT1 | | | | | |
| Coordinates | | X-coordinate | | 28.59882 | | Y-coordinate | 26.1 | 2195 | | Z-co | ordinate | • | 1 | 590 | |
| Locality type | | Monitoring Bo | rehol | le | Da | ate drilled | | | Unk | nown | | | | | |
| Borehole depth | 150 m | | Во | rehole diameter | | 18 cm | | Collar | heig | ht | | 21 | cm | | |
| Estimated yield per hor | ur | N/A | | | Te | est certificate | | | Yes | | | - | No | > | Χ |
| Reservoir & size | N/A | | | | | | | | | | | | | | |
| Liter | | Submersible | - | Mono pump | - | Windmill | - | Hand pum | пр | - | Other | | | Monitoring | |

| | | | Current* and I | Future | Use Information | | | |
|------------------------|------------|---|--------------------|--------|-----------------|---|-------|---|
| In use | Yes | - | No | Х | Other | - | | |
| Current and future use | Irrigation | - | Livestock watering | - | Domestic | - | Other | - |
| | | | | | | | | |
| | | | | | | | | |

| | | Samplii | ng Information | |
|------------------------|-------------------------|--------------------|----------------|-------------------------------|
| Sampler | Anton Botha | Date sampled | 11/04/2016 | |
| Sample type | Inorganic | Static water level | - | |
| Short locality descrip | tion: Monitoring boreho | le. | | No Locality Picture Available |
| | | | | |
| Comments: Sampled | directly from borehole. | | | |
| | | | | |
| | | | V > | |
| | | Source | e Information | |

| | | Source | e Information | | | | | |
|--------------------------|-----------------|-------------------|------------------|-----------|-----------|------|------|---|
| Project | Rietkol Project | | Locality number | | 153MT2 | | | |
| Coordinates | X-coordinate | 26.12198 | Y-coordinate | 28.59918 | Z-coordir | nate | 1590 | |
| Locality type | Borehole | | Date drilled | | Unknown | | | |
| Borehole depth - | | Borehole diameter | - | Colla | r height | - | | |
| Estimated yield per hour | - | | Test certificate | | Yes | - 1 | No | Х |
| Reservoir & size - | | | | | | | | |
| Liter | Submersible | X Mono pump | - Windmill | - Hand pu | mp - Ot | her | - | |

| | Current* and Future Use Information | | | | | | | | | | | | |
|------------------------|-------------------------------------|---|--------------------|---|----------|---|-------|---|--|--|--|--|--|
| In use | Yes | Х | No | - | Other | - | | | | | | | |
| Current and future use | Irrigation | Х | Livestock watering | - | Domestic | Х | Other | - | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| | | Samplir | ng Information | |
|------------------------|--------------------------|---------------------------------|----------------|-------------------------------|
| Sampler Sample type | Anton Botha Inorganic | Date sampled Static water level | 11/04/2016 | |
| Short locality descrip | tion: Borehole at Works | shop | | No Locality Picture Available |
| Comments: Sampled | at tap. No access to wa | ter level due to installed | pump. | |



address: 89 regency drive, R21 corporate park, centurion postal: p.o. box 905008, garsfontein, 0042 web: www.aquatico.co.za office: 012 450 3800 • fax: 012 450 3851

PROJECT DETAILS

Rietkol Project

| | | Pers | onal Details | |
|------------------|--------------|-------------------|--|--------------------------|
| Physical address | | | MANOR, 33 WOODLANDS , SANDTON, 2196 | |
| Postal address | РО ВС | OX 2145, RANDBU | RG, 2125 | No Profile Picture Taken |
| District/Town | | SANDTON, 2196 | 3 | No Frome Picture Taken |
| Owner | | Annemarie Buck | le | |
| Contact person | | Annemarie Buck | le | |
| Cell | 082 886 4000 | Tel | 011 326 1000 | |
| Fax | | - | | |
| E-mail | | amibuckle@gmail.c | Signature | |



| | | | | Sourc | e li | nformation | | | | | | | | |
|-------------------------|-----------------------|-----------------------|-----|----------------|--------------|-----------------|-----|----------|-------------|------|----------|---|------|---|
| Project | oject Rietkol Project | | | | L | ocality number | | | 159 | AMB | | | | |
| Coordinates | | X-coordinate 28.60471 | | | | Y-coordinate | 26. | 11863 | | Z-co | ordinate |) | 1591 | |
| Locality type | | Borehole | | | Date drilled | | | | Unknown | | | | | |
| Borehole depth | - | | Bor | ehole diameter | - Colla | | | Collar | ar height - | | | | | |
| Estimated yield per hou | r | - | | | T | est certificate | | | Yes | ; | | - | No | - |
| Reservoir & size | 500010 | Cement tank | | | | | | | | | | | | |
| Liter | | Submersible | X | Mono pump | - | Windmill | - | Hand pun | np | - | Other | | - | |

| | Current* and Future Use Information | | | | | | | | | | | | |
|---|-------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|
| n use Yes - No X Other - | | | | | | | | | | | | | |
| Current and future use Irrigation - Livestock watering - Domestic - Other - | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| | | Samplii | ng Information | |
|------------------------|---------------------------|--------------------|----------------|--|
| Sampler | Anton Botha | Date sampled | 11/04/2016 | |
| Sample type | Inorganic | Static water level | - | |
| Short locality descrip | otion: Vacant house bore | ehole | | |
| | | | | |
| Comments: No elect | ricity or borehole access | | | The state of the s |
| | | | | |
| | | | | |
| | | | | |

P



PROJECT DETAILS

Rietkol Project

| | | Pers | onal Details | |
|------------------|--------------|-------------------------------|--------------|---------------------------|
| Physical address | MOD | DER EAST ORCHA HOLDING 171 | RDS AH, | |
| Postal address | PO BOX 13 | 156, NORTHMEAD | BENONI, 1511 | No Profile Picture Taken |
| District/Town | | - | | No Profile Picture Takeri |
| Owner | | Hans Von Rong | e | |
| Contact person | | Hans Von Rong | е | |
| Cell | 078 312 7285 | Tel | - | |
| Fax | | - | | |
| E-mail | | - | | Signature |



| | Source Information | | | | | | | | | | | | | | |
|-------------------------|----------------------|--------------|-------------------------|-----------------|--------------|----------------|-----|----------|----------------|------|----------|---|----|-----|---|
| Project | Project Rietkol Proj | | | Locality number | | | | | 171 | HVR | | | | | |
| Coordinates | | X-coordinate | | 28.60590 | , | Y-coordinate | 26. | 11032 | | Z-co | ordinate | Э | 1 | 575 | |
| Locality type | Borehole | | | | Date drilled | | | | ± 40 years old | | | | | | |
| Borehole depth | 32 m | | Bor | rehole diameter | 18 cm Colla | | | r heig | jht | | 4 cr | n | | | |
| Estimated yield per ho | ur | 10 500 l/h | | | Te | st certificate | | | Yes | ; | | - | No | | Х |
| Reservoir & size 5000 I | | | | | | | | | | | | | | | |
| Liter | | Submersible | Submersible - Mono pump | | | Windmill | - | Hand pur | mp | - | Other | | | - | |

| Current* and Future Use Information | | | | | | | | | | | | |
|-------------------------------------|---|---|----|---|-------|---|--|--|--|--|--|--|
| In use | Yes | Х | No | - | Other | - | | | | | | |
| Current and future use | future use Irrigation X Livestock watering X Domestic X Other - | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

| | | Samplin | g Information | |
|------------------------|---------------------------|---------------------------------|----------------------|-------------------------------|
| Sampler Sample type | Machiel Inorganic | Date sampled Static water level | 01/04/2016 ± 12 m | |
| Short locality descrip | otion: Borehole next to g | garage in owner's yard. | | No Locality Picture Available |
| Comments: Water is | clear. Household uses a | about 8000 liters of water | per week. | |



PROJECT DETAILS

Rietkol Project

| | | Pers | onal Details | |
|------------------|--------------|-------------------------------|--------------------------|--------------------------|
| Physical address | МОДІ | DER EAST ORCHA HOLDING 145 | | |
| Postal address | POSBUS 133 | 85, DELMAS, MODI | DER EAST, 2210 | No Profile Picture Taken |
| District/Town | | DELMAS, 2210 | No Prollie Picture Taken | |
| Owner | | Izak De Jager | | |
| Contact person | | Izak De Jager | | |
| Cell | 084 200 0874 | Tel | - | |
| Fax | | - | | |
| E-mail | | sakdmi@gmail.co | m | Signature |



| | Source Information | | | | | | | | | | | | | | |
|------------------------|-------------------------|--------------|----------|-----------------|------------------|----------------|-------|---------|---------------|---------|-------|------|---|---|--|
| Project | Project Rietkol Project | | | | Lo | ocality number | | | 199 | ID | | | | | |
| Coordinates | | X-coordinate | 28.60957 | | Y-coordinate | 26. | 11277 | | Z-co | ordinat | Э | 1586 | | | |
| Locality type | Locality type Borehole | | | | Date drilled | | | | | Unknown | | | | | |
| Borehole depth | - | | Boi | rehole diameter | | - Colla | | | llar height - | | | | | | |
| Estimated yield per ho | ur | - | | | Test certificate | | | | Yes - No | | | | | - | |
| Reservoir & size - | | | | | | | | | | | | | | | |
| Liter | | Submersible | X | Mono pump | - | Windmill | - | Hand pu | mp | - | Other | | - | | |

| Current* and Future Use Information | | | | | | | | | | | |
|-------------------------------------|------------|---|--------------------|---|----------|---|---|---|--|--|--|
| In use | Yes | Х | No | - | Other | - | | | | | |
| Current and future use | Irrigation | - | Livestock watering | - | Domestic | Х | - | | | | |
| | | | | | | | | - | | | |
| | | | | | | | | | | | |

| | | Sampling | g Information | |
|------------------------|--------------------------|---------------------------------|---------------|---|
| Sampler Sample type | Anton Botha Inorganic | Date sampled Static water level | 11/04/2016 | - |
| Short locality descrip | tion: Borehole near ho | use. | | |
| Comments: Water for | domestic workers. Car | nnot access as it is welded | shut. | |



address: 89 regency drive, R21 corporate park, centurion postal: p.o. box 905008, garsfontein, 0042 web: www.aquatico.co.za office: 012 450 3800 • fax: 012 450 3851

PROJECT DETAILS

Rietkol Project

| | | Pers | onal Details | |
|------------------|--------------|--------------------|--------------------------|--------------------------|
| Physical address | 550 PLAAS B | RAKLAAGTE, BO | THAVILLE, 9660 | |
| Postal address | POSB | US 686, BOTHAVII | LLE, 9660 | No Drafilo Dieturo Tokon |
| District/Town | | Bothaville, 9660 | No Profile Picture Taken | |
| Owner | | Tinus Stols | | |
| Contact person | | Martin van Zyl | | |
| Cell | 083 255 6601 | Tel | 018 4411 039 | |
| Fax | | - | | |
| E-mail | | tinus@stolsrose.co | za | Signature |



| | | | | Sourc | e In | formation | | | | | | | | |
|---|----|-----------------|-----|-----------------|----------------------|--------------|------|----------|--------------|------|---------|---|------|--|
| Project | | Rietkol Project | t | Locality number | | | | 202 | 202Unex1 | | | | | |
| Coordinates | | X-coordinate | | 28.60848 | | Y-coordinate | 26.1 | 26.11935 | | Z-co | ordinat | Э | 1581 | |
| Locality type Borehole | | | | | Date drilled | | | | Unknown | | | | | |
| Borehole depth | - | | Boi | rehole diameter | Unknown Colla | | | Colla | lar height - | | | | | |
| Estimated yield per hou | ır | 80 000 l/h | | | Test certificate | | | | Yes - No | | | | - | |
| Reservoir & size 300 000 l + storage tank | | | | | | | | | | | | | | |
| Liter | | Submersible | X | Mono pump | - | Windmill | - | Hand pur | пр | - | Other | | - | |

| Current* and Future Use Information | | | | | | | | | | | | |
|-------------------------------------|--|---|----|---|-------|---|--|--|--|--|--|--|
| In use | Yes | Х | No | - | Other | - | | | | | | |
| Current and future use | Ise Irrigation X Livestock watering - Domestic - Other - | | | | | | | | | | | |
| Irrigation of roses | | | | | | | | | | | | |
| | | | | | | | | | | | | |

| | | Sampli | ng Information | |
|------------------------|--|--------------------------|----------------|--|
| Sampler | Werner Rossouw | Date sampled | 11/04/2016 | |
| Sample type | Inorganic | Static water level | - | |
| Short locality descrip | otion: Unknown locality o | of borehole, on Unex gro | unds. | |
| | ss to the borehole due to g directly from the boreh i. | | | |

| | | | | Sourc | e Infe | ormation | 10000 | | | | | | | | |
|-------------------------|---------|--------------------|------------|---------------|--------|---------------|-------|----------|--------|-------|----------|---|----|-----|---|
| Project | | Rietkol Project | _ | | Loc | ality number | | | 202 | Unex2 | 2 | | | | |
| Coordinates | | X-coordinate | A | 28.60716 | Y | -coordinate | 26. | 12128 | | Z-co | ordinate |) | 15 | 590 | |
| Locality type | | Borehole | | | Dat | e drilled | | | Unk | nown | | | | | |
| Borehole depth | Unknowr | i E | Bore | hole diameter | | Unknown | | Colla | r heig | ht | | - | | | |
| Estimated yield per hou | ır | 80 000 l/h | | | Tes | t certificate | | | Yes | | | - | No | | - |
| Reservoir & size | 300 000 | 0 I + storage tank | 1 | | | | | | | | | | | | |
| Liter | | Submersible | Х | Mono pump | - | Windmill | - | Hand pur | тр | - | Other | | | - | |
| | | | The latest | | | | | | | | | | | | |

| | Current* and Future Use Information | | | | | | | | | | |
|------------------------|-------------------------------------|---|--------------------|---|----------|---|-------|---|--|--|--|
| In use | Yes | X | No | - | Other | - | | | | | |
| Current and future use | Irrigation | Х | Livestock watering | - | Domestic | - | Other | - | | | |
| Irrigation of roses | | | | | | | | | | | |
| | | | | | | | | | | | |

| | | Sampli | ng Information | |
|--|--|-------------------------|---------------------|--------|
| Sampler | Werner Rossouw | Date sampled | 11/04/2016 | |
| Sample type | Inorganic | Static water level | - | - 1000 |
| Short locality descrip water storage tank. | otion: Borehole inside ro | ose nursery / greenhous | e, pumping water to | |
| | ss to the borehole due to g directly from the boreh | | mple taken from | |



address: 89 regency drive, R21 corporate park, centurion postal: p.o. box 905008, garsfontein, 0042 web: www.aquatico.co.za office: 012 450 3800 • fax: 012 450 3851

PROJECT DETAILS Rietkol Project

| | | Pers | onal Details | |
|------------------|--------------|-----------------------------------|--------------|--------------------------|
| Physical address | | DER EAST ORCHA DING 205, DELMA | | |
| Postal address | PO | BOX 1983, DELMA | S, 2210 | No Profile Picture Taken |
| District/Town | | DELMAS, 2210 | | No Frome Picture Taken |
| Owner | | Martin van Zyl | | |
| Contact person | | Martin van Zyl | | |
| Cell | 082 505 4434 | Tel | - | |
| Fax | | - | | |
| E-mail | n | nartin@unexroses.c | o.za | Signature |



| | | | | Sourc | e In | nformation | | | | | | | | | |
|------------------------|------------------------|-----------------|-------------------|-----------|-----------------|-----------------|-----|----------|--------------|---------|-------|---|----|-----|---|
| Project | | Rietkol Project | | | Locality number | | | | 205 | MZ | | | | | |
| Coordinates | X-coordinate 28.60522 | | | 28.60522 | | Y-coordinate | 26. | 11833 | Z-coordinate | | | | 15 | 578 | |
| Locality type | Locality type Borehole | | | | Date drilled | | | | | Unknown | | | | | |
| Borehole depth | - Bo | | Borehole diameter | | | Unknown | | Colla | r heig | ght | | - | | | |
| Estimated yield per ho | ur | - | | | Te | est certificate | | | Yes | 5 | | - | No | | - |
| Reservoir & size | - | | | | | | | | | | | | | | |
| Liter | | Submersible | X | Mono pump | - | Windmill | - | Hand pui | mp | T - | Other | | | - | |

| | | | Current* and I | Future | Use Information | | | |
|------------------------|------------|---|--------------------|--------|-----------------|---|-------|---|
| In use | Yes | Х | No | - | Other | - | | |
| Current and future use | Irrigation | - | Livestock watering | - | Domestic | х | Other | - |
| | | | | | | | | |
| | | | | | | | | |

| | | Samplir | ng Information | |
|------------------------|---------------------------|--------------------------|----------------------|---|
| Sampler | Werner Rossouw | Date sampled | 11/04/2016 | to be a second and a second as the second |
| Sample type | Inorganic | Static water level | - | |
| Short locality descrip | tion: Borehole in brick h | ousing, in an open field | near the main house. | |
| Comments: No acces | s to borehole due to ins | talled pump and locked | housing. | |



address: 89 regency drive, R21 corporate park, centurion postal: p.o. box 905008, garsfontein, 0042 web: www.aquatico.co.za office: 012 450 3800 • fax: 012 450 3851

PROJECT DETAILS

Rietkol Project

| | | Pers | onal Details | |
|------------------|--------------|------------------------------------|--------------|--------------------------|
| Physical address | | DER EAST ORCHA LDING 206, DELMA | | |
| Postal address | PC | BOX 138, DELMAS | 3, 2210 | No Profile Picture Taken |
| District/Town | | Delmas, 2210 | | No Frome Picture Taken |
| Owner | | Johan van Stade | n | |
| Contact person | | Johan van Stade | n | |
| Cell | 082 954 0317 | Tel | - | |
| Fax | | - | | |
| E-mail | van | stadenjohan730@gn | nail.com | Signature |



| | | | | Source | e In | nformation | | | | | | | | | |
|------------------------|-----------------------|-----------------|-----|-----------------|-----------------|-----------------|-----|---------|----------------|---------|-------|---|----|-----|---|
| Project | | Rietkol Project | | | Locality number | | | | 206 | JS | | | | | |
| Coordinates | X-coordinate 28.60498 | | | 28.60498 | | Y-coordinate | 26. | 11887 | 7 Z-coordinate | | | | 1: | 587 | |
| Locality type | cality type Borehole | | | | Date drilled | | | | | Unknown | | | | | |
| Borehole depth | ± 83 m | | Boi | rehole diameter | | Unknown | | Colla | r heiç | ght | | - | | | |
| Estimated yield per ho | ur | - | | | Te | est certificate | | | Yes | ; | | - | No | | - |
| Reservoir & size | - | | | | | | | | | | | | | | |
| Liter | | Submersible | X | Mono pump | - | Windmill | - | Hand pu | mp | - | Other | | | - | |

| | | | Current* and I | uture | Use Information | | | |
|------------------------|------------|---|--------------------|-------|-----------------|---|---------|--|
| In use | Yes | х | No | - | Other | - | | |
| Current and future use | Irrigation | х | Livestock watering | Х | Domestic | Х | Other - | |
| | | | | | | | | |
| | | | | | | | | |

| | | Samplir | ng Information | |
|-------------------|----------------------------|--------------------------|----------------|--|
| Sampler | Werner Rossouw | Date sampled | 11/04/2016 | |
| Sample type | Inorganic | Static water level | - | |
| | otion: Borehole in brick h | garage salah g | Table 1.5to | |
| omments: No acces | ss to borehole due to ins | talled pump. Estimated o | depth. | |

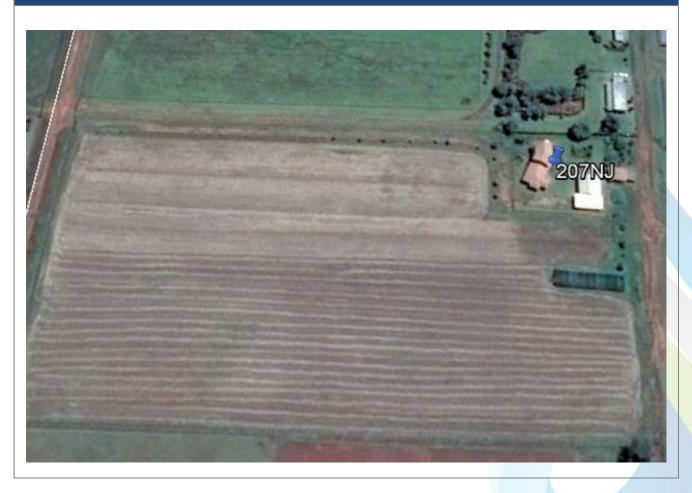


address: 89 regency drive, R21 corporate park, centurion postal: p.o. box 905008, garsfontein, 0042 web: www.aquatico.co.za office: 012 450 3800 • fax: 012 450 3851

PROJECT DETAILS

Rietkol Project

| | | Pers | onal Details | |
|------------------|--------------|-------------------------------|--------------------------|--------------------------|
| Physical address | MODI | DER EAST ORCHA HOLDING 207 | | |
| Postal address | РО | BOX 472, SUNDRA | A, 2200 | No Profile Picture Taken |
| District/Town | | - | No Profile Picture Taken | |
| Owner | | Natasha Jerome |) | |
| Contact person | | Natasha Jerome | • | |
| Cell | 083 375 8446 | Tel | - | |
| Fax | | - | | |
| E-mail | | - | Signature | |



| | Source Information | | | | | | | | | | | | | | |
|-------------------------|-------------------------|-------------|-----|----------------|-------------|-----------------|-------|----------|---------|------|----------|------|-----|----|---|
| Project | Project Rietkol Project | | | | Lo | ocality number | | | 207NJ | | | | | | |
| Coordinates | X-coordinate | | | 28.60663 | | Y-coordinate | 26.12 | 2044 | | Z-co | ordinate |) | 158 | 38 | |
| Locality type Borehole | | | | Date drilled | | | | | Unknown | | | | | | |
| Borehole depth | - | | Bor | ehole diameter | 18 cm Colla | | | Collar | heig | jht | | 30 c | m | | |
| Estimated yield per hou | ır | - | | | Te | est certificate | | | Yes | ; | | - | No | | Х |
| Reservoir & size | 10000 I JOJO tank | | | | | | | | | | | | | | |
| Liter | | Submersible | Х | Mono pump | - | Windmill | - | Hand pum | пр | - | Other | | | - | |

| Current* and Future Use Information | | | | | | | | | | |
|-------------------------------------|------------|---|--------------------|---|----------|-----------|--|--|--|--|
| In use | Yes | Х | No | - | Other | - | | | | |
| Current and future use | Irrigation | Х | Livestock watering | Х | Domestic | X Other - | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

| Sampling Information | | | | | | | | | | |
|------------------------|--------------------------|--------------------|------------|--|--|--|--|--|--|--|
| Sampler | Anton Botha | Date sampled | 11/04/2016 | | | | | | | |
| Sample type | Inorganic | Static water level | 20.89 m | | | | | | | |
| Short locality descrip | otion: Borehole at house | (Plot 207) | | | | | | | | |
| | | | | - P | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Comments: | | | | | | | | | | |
| | | | | The second secon | | | | | | |
| | | | | | | | | | | |

•



PROJECT DETAILS Rietkol Project

| | | Pers | onal Details | |
|------------------|------------------|------------------|--------------------------|--|
| Physical address | KUYASA MINING PT | Y LTD, KUYASA H | | |
| Postal address | РО ВОХ | 738, DELMAS, WIT | No Profile Picture Taken | |
| District/Town | | - | No Prome Picture Taken | |
| Owner | | Bheki Mthethwa | 1 | |
| Contact person | | Bheki Mthethwa | 1 | |
| Cell | 082 900 6230 | Tel | | |
| Fax | | - | | |
| E-mail | bhe | kim@kuyasamining | Signature | |

Locality Map 208BM 216ABM

| | Source Information | | | | | | | | | | | | | | |
|-----------------------------------|------------------------------------|-------------|-----|----------------|----------------------|----------------|---------|---------|-------------|--------------|-------|------|----|-----|---|
| Project | Project Rietkol Project | | | | Lo | cality number | | | 208 | ВМ | | | | | |
| Coordinates | es X-coordinate 28.6 | | | 28.60510 | \ | Y-coordinate | 26. | 12275 | | Z-coordinate | | | 1: | 591 | |
| Locality type | ocality type Borehole Date drilled | | | | | | Unknown | | | | | | | | |
| Borehole depth | - | | Bor | ehole diameter | Unknown Colla | | | | ar height 0 | | | 0 cr | n | | |
| Estimated yield per hou | ır | - | | | Tes | st certificate | | | Yes | | | - | No | | - |
| Reservoir & size 5000 I JOJO tank | | | | | | | | | | | | | | | |
| Liter | | Submersible | X | Mono pump | - | Windmill | - | Hand pu | mp | - | Other | | | - | |

| Current* and Future Use Information | | | | | | | | | | |
|-------------------------------------|------------|---|--------------------|---|----------|-----------|--|--|--|--|
| In use | Yes | х | No | - | Other | - | | | | |
| Current and future use | Irrigation | - | Livestock watering | Х | Domestic | X Other - | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

| Sampling Information | | | | | | | | | | |
|----------------------|--|--------------------|------------|--------------------|--|--|--|--|--|--|
| Sampler | Werner Rossouw | Date sampled | 12/04/2016 | / 100 | | | | | | |
| Sample type | Inorganic | Static water level | - | | | | | | | |
| | otion: Borehole near mai | | | Ad a phonon and an | | | | | | |
| | Comments: No access due to installed pump and covered by welded steel plate, could not determine depths. | | | | | | | | | |

| | | | | 4 | - 10 | | 46353 | | | | | | | | |
|-------------------------|----------------------------|-------------|------|----------------|--------------|-----------------------|-------|----------|------|------|---------|---|----|-----|---|
| Source Information | | | | | | | | | | | | | | | |
| Project | Rietkol Project | 4 | | Loc | ality number | | | 216 | ABM | | | | | | |
| Coordinates | Coordinates X-coo | | | 28.60181 | Y | Y-coordinate 26.12634 | | | | Z-co | ordinat | е | 15 | 593 | |
| Locality type | type Borehole Date drilled | | | | | Unknown | | | | | | | | | |
| Borehole depth | ± 200 m | | Bore | ehole diameter | | Unknown | | Collar | heig | ht | | - | | | |
| Estimated yield per hou | ır | - | M | | Tes | t certificate | | | Yes | | | - | No | | - |
| Reservoir & size - | | | | | | | | | | | | | | | |
| Liter | | Submersible | Х | Mono pump | - | Windmill | - | Hand pum | np | - | Other | | | - | |

| Current* and Future Use Information | | | | | | | | |
|-------------------------------------|------------|-----|--------------------|---|----------|---|-------|---|
| In use | Yes | | No | Х | Other | - | | |
| Current and future use | Irrigation | - " | Livestock watering | - | Domestic | Х | Other | - |
| | A 1 | | | | | | | |
| | | | | | | | | |

| | Sampling Information | | | | | | | | | |
|-----------------------|---|------------------------|------------|--|--|--|--|--|--|--|
| Sampler | Anton Botha | Date sampled | 11/04/2016 | | | | | | | |
| Sample type | | - Static water level - | | | | | | | | |
| Short locality descri | ption: Near house | | | | | | | | | |
| | e not in use due to no ele s due to cement slabs ard | | | | | | | | | |



PROJECT DETAILS Rietkol Project

| | | Pers | onal Details | |
|------------------|--------------|-------------------------------|---------------------------|--|
| Physical address | МОДІ | DER EAST ORCHA HOLDING 210 | | |
| Postal address | PO BOX 232 | 3, DELMAS, MPUN | No Profile Picture Taken | |
| District/Town | | DELMAS, 2210 | No Profile Picture Takeri | |
| Owner | | Hans Burger | | |
| Contact person | | Hans Burger | | |
| Cell | 082 895 5327 | Tel | - | |
| Fax | | - | | |
| E-mail | | - | Signature | |



| | | | | | Sourc | e Inf | ormation | | | | | | | | | |
|------------------------|--------|--------|--------------------------|------|-----------------|--------|------------------|-----|----------|----------|-------------|-------|---|----|-----|---|
| Project | | Rietko | l Projec | ct | | Loc | cality number | | | 2101 | НВ | | | | | |
| Coordinates | | X-coo | rdinate | | 28.60759 | ١ | '-coordinate | 26. | 12412 | | Z-coordinat | | е | 1 | 606 | |
| Locality type | | Monito | Monitoring Borehole Date | | | | Date drilled | | | Unk | Unknown | | | | | |
| Borehole depth | 80 m | | | Во | rehole diameter | | - | | Colla | r height | | | - | | | |
| Estimated yield per ho | ur | - | | | | Tes | st certificate | | | Yes | | | - | No | | - |
| Reservoir & size | - | | | | | | | | | | | | | | | |
| Liter | | Subme | ersible | X | Mono pump | - | Windmill | - | Hand pur | mp | l - | Other | r | | - | |
| | | | | | | | | | | | | | | | | |
| | | | | | Current* and I | utur | e Use Informatio | n | | | | | | | | |
| In use | Ye | es | х | | No | - | Other | | - | | | | | | | |
| Current and future use | Irriga | ation | Х | Live | estock watering | Χ | Domesti | ic | X | | C | ther | | - | | |
| | | | | | | | | | | | 4 | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | Sampl | ing Ir | formation | | | | | | | | | |
| Sampler | Deon / | Machie | el | D | ate sampled | | 01/04/2016 | | | | | | | | | |
| Sample type | Inoi | rganic | | Sta | tic water level | | - | A | | | | | | | | |

No Locality Picture Available

Short locality description: Borehole in field 100 m from house.

Comments:



address: 89 regency drive, R21 corporate park, centurion postal: p.o. box 905008, garsfontein, 0042 web: www.aquatico.co.za office: 012 450 3800 • fax: 012 450 3851

PROJECT DETAILS Rietkol Project

| | | Pers | onal Details | |
|------------------|--------------|-------------------------------|---------------------------|--|
| Physical address | МОДІ | DER EAST ORCHA HOLDING 213 | | |
| Postal address | PO | BOX 503, SUNDR | No Profile Picture Taken | |
| District/Town | | SUNDRA 2200 | No Profile Picture Takeri | |
| Owner | | PE van der Wal | t | |
| Contact person | | PJ van der Wal | ı | |
| Cell | 082 938 9124 | Tel | | |
| Fax | | - | | |
| E-mail | 2782 | 29389724@vodama | Signature | |

213JW 2 213JW1

| | | | | Source | e Ir | nformation | | | | | | | | |
|-------------------------|------------------------|--------------------------------------|----|-----------------|-----------------------|-----------------|------|---------------|--------------|--------|-------|------|----|---|
| Project | | Rietkol Project | | | | Locality number | | | | 213JW1 | | | | |
| Coordinates | | X-coordinate | | 28.60252 | Y-coordinate 26.12613 | | 2613 | | Z-coordinate | |) | 1600 | | |
| Locality type | Locality type Borehole | | | Date drilled | | | | February 2008 | | | | | | |
| Borehole depth | 160 m | | Во | rehole diameter | | 5 " | | Collar | heig | ht | | - | | |
| Estimated yield per hou | ır | 14 000 | | | Te | est certificate | | | Yes | | | - 1 | 10 | - |
| Reservoir & size | 50001 | 0 I JOJO tank and 40 000 I cement da | | | | | | | | | | | | |
| Liter | | Submersible | X | Mono pump | - | Windmill | - | land pum | ıp | - | Other | | - | |

| | Current* and Future Use Information | | | | | | | | | | | |
|------------------------|-------------------------------------|---|--------------------|---|----------|---|-------|---|--|--|--|--|
| In use | Yes | Х | No | - | Other | - | | | | | | |
| Current and future use | Irrigation | х | Livestock watering | Х | Domestic | Х | Other | - | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

| | | Samplii | ng Information | GENERAL VIEW. | | | | | | | |
|--|-----------|--------------------|----------------|---------------|--|--|--|--|--|--|--|
| Sampler | Deon | Date sampled | 01/04/2016 | | | | | | | | |
| Sample type | Inorganic | Static water level | 83.26 m | | | | | | | | |
| Short locality description: Borehole North of the entrance. No Locality Picture Available | | | | | | | | | | | |
| | | | | | | | | | | | |
| Comments: | Comments: | | | | | | | | | | |
| | | | | | | | | | | | |
| | | Source | e Information | | | | | | | | |

| | Source Information | | | | | | | | | | |
|----------------------------|--------------------|------------------|-------------------|------------------|-----------|---------------|-----|------|---|--|--|
| Project | | Rietkol Project | | Locality number | | 213JW2 | | | | | |
| Coordinates | | X-coordinate | 28.60282 | Y-coordinate | 26.12603 | Z-coordinat | te | 1600 | | | |
| Locality type | | Borehole | | Date drilled | | February 2008 | | | | | |
| Borehole depth | 87 m | | Borehole diameter | 5 " | Colla | r height | - | | | | |
| Estimated yield per hou | ır | 14 000 | | Test certificate | | Yes | - 1 | No | - | | |
| Reservoir & size | 50001 | JOJO tank and 40 | 000 I cement dam | | | | | | | | |
| Liter Submersible X Mono p | | | X Mono pump | - Windmill | - Hand pu | mp - Othe | r | - | | | |
| | | | | | | | | | | | |

| | Current* and Future Use Information | | | | | | | | | | |
|------------------------|-------------------------------------|---|--------------------|---|----------|---|-------|---|--|--|--|
| In use | Yes | 4 | No | Х | Other | - | | | | | |
| Current and future use | Irrigation | Х | Livestock watering | Х | Domestic | Х | Other | - | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

| The state of the s | .0000 | Samplir | ng Information | |
|--|-------------------------|---------------------------------|----------------|-------------------------------|
| Sampler Sample type | Deon | Date sampled Static water level | 01/04/2016 | |
| Short locality descrip | tion: Borehole North of | | | No Locality Picture Available |



address: 89 regency drive, R21 corporate park, centurion postal: p.o. box 905008, garsfontein, 0042 web: www.aquatico.co.za office: 012 450 3800 • fax: 012 450 3851

PROJECT DETAILS Rietkol Project

| | | Pers | onal Details | |
|------------------|--------------|-------------------------------|--------------------------|--|
| Physical address | MODI | DER EAST ORCHA HOLDING 219 | | |
| Postal address | | - | No Profile Picture Taken | |
| District/Town | | DELMAS, 2210 | No Profile Picture Taken | |
| Owner | | Edwin Wocke | | |
| Contact person | | Edwin Wocke | | |
| Cell | 083 299 7468 | Tel | - | |
| Fax | | - | | |
| E-mail | | ewwocke@gmail.co | Signature | |



| | | | | | Sourc | e Inf | ormation | | | | | | | | |
|------------------------|--------|---------|----------|-------|------------------|--------|------------------|-----|---------------|-----|--------------|-------|---|------|---|
| Project | | Rietko | l Proje | ct | | Loc | ality number | | | 219 | eW | | | | |
| Coordinates | | X-coo | rdinate | | 28.61199 | Y | Y-coordinate 26 | | 2780 | | Z-coordinate | |) | 1600 | |
| Locality type | | Monito | oring Bo | oreho | le | Dat | e drilled | U | | | Jnknown | | | | |
| Borehole depth | - | | | Во | rehole diameter | | - | | Collar height | | | - | | | |
| Estimated yield per ho | ur | - | | | | Tes | t certificate | | | Yes | 3 | | - | No | - |
| Reservoir & size | - | | | | | | | | | | | | | | |
| Liter | | Subme | ersible | X | Mono pump | - | Windmill | - H | land pu | mp | - | Other | | - | |
| | | | | | | | | | | | | | | | |
| | | | | | Current* and F | utur | e Use Informatio | n | | | | | | | |
| In use | Ye | es | х | | No | - | Other | | - | | | | | | |
| Current and future use | Irriga | ation | - | Liv | estock watering | - | Domesti | ic | Х | | Oth | ner | | - | |
| | | | | | | | | | | | • | | | | |
| | | | | | | | | | | | 1 | | | | |
| | | | | | | | | | | 4 | | 7 | A | | |
| | | | | | Sampli | ing In | formation | | | | | | | | |
| Sampler | Deon | / Anton | | D | ate sampled | | 01/04/2016 | | | | | | | | |
| Sample type | Inor | ganic | | Sta | ntic water level | | 14.83 m | 4 | | | | | | | |

No Locality Picture Available

Short locality description: Borehole in small room near stores.

Comments:

| PROJECT DETAILS |
|-----------------|
|-----------------|

Rietkol Project

| | | Personal | Details | |
|------------------|--------------|---|---------|--------------------------|
| Physical address | | DER EAST ORCHARDS DLDING 222, ELOFF, 221 | | |
| Postal address | РО | BOX 2917, DELMAS, 22 | 10 | No Profile Picture Taken |
| District/Town | | Delmas, 2210 | • | NO FIGHE FIGURE PAREIT |
| Owner | | Piet Kotze | | |
| Contact person | | Piet Kotze | | |
| Cell | 079 090 2222 | Tel | | |
| Fax | | - | | |
| E-mail | | pietk@botselo.co.za | | Signature |



| | | | | Source | e Ir | nformation | | | | | | | | | |
|-------------------------|----------|-----------------|-------------------|-----------|------|-----------------|-----|----------|--------|-------|---------|---|----|-----|---|
| Project | | Rietkol Project | | | Lo | cality number | | | 222 | PK | | | | | |
| Coordinates | | X-coordinate | | 28.61229 | | Y-coordinate | 26. | 12656 | | Z-co | ordinat | е | 15 | 584 | |
| Locality type | | Borehole | | | Da | ate drilled | | | Unł | known | | | | | |
| Borehole depth | 71.20 m | | Borehole diameter | | | Unknown | | Colla | r heig | ght | | - | | | |
| Estimated yield per hou | ır | - | | | Te | est certificate | | | Yes | 3 | | - | No | | - |
| Reservoir & size | 5000 l t | ank | k | | | | | | | | | | | | |
| Liter | | Submersible | X | Mono pump | T - | Windmill | - | Hand pur | mp | - | Other | | | - | |

| | | | Current* and I | Future | Use Information | | | |
|------------------------|------------|---|--------------------|--------|-----------------|---|-------|---|
| In use | Yes | Х | No | - | Other | - | | |
| Current and future use | Irrigation | - | Livestock watering | Х | Domestic | Х | Other | - |
| | | | | | | | | |
| | | | | | | | | |

| Sampler Werner Rossouw Date sampled 12/04/2016 Sample type Inorganic Static water level 9.58 m hort locality description: Borehole near main house inside brick housing, next to storage ink. | | Samplir | ng Information | |
|---|-------------------------|---------|----------------|--|
| nort locality description: Borehole near main house inside brick housing, next to storage | | | | |
| ank. | | | | |
| | | | 3, | |
| | | | | |
| | essure decreased recent | ly. | | |



PROJECT DETAILS

Rietkol Project

| | | Pers | onal Details | |
|------------------|---------------|----------------------------------|--------------------------|--------------------------|
| Physical address | | ER EAST ORCHAF ANTSFONTEIN, D | | |
| Postal address | PO BOX 75, IT | WATWA WEST D | AVIDTON, 1519 | No Profile Picture Taken |
| District/Town | | DELMAS, 2210 | No Profile Picture Taken | |
| Owner | | Boy Khetile Mabo | | |
| Contact person | | Boy Khetile Mabo | | |
| Cell | 083 486 0286 | Tel | | |
| Fax | | - | | |
| E-mail | | - | | Signature |



| | | | | Sourc | e Inf | ormation | | | | | | | | | |
|-------------------------|---------|-----------------|-----|----------------|-------|---------------|----|----------|--------|------|---------|---|----|-----|---|
| Project | | Rietkol Project | | | Loc | cality number | | | 226 | ЗКМ | | | | | |
| Coordinates | | X-coordinate | | 28.61354 | Y | '-coordinate | 26 | .12374 | | Z-co | ordinat | Э | 1 | 590 | |
| Locality type | | Borehole | | | Dat | e drilled | | | Unk | nown | | | | | |
| Borehole depth | - | | Bor | ehole diameter | | - | | Colla | r heig | ht | | - | | | |
| Estimated yield per hou | r | - | | | Tes | t certificate | | | Yes | | | - | No | | - |
| Reservoir & size | 4 x 500 | 0 | | | | | | | | | | | | | |
| Liter | | Submersible | X | Mono pump | l - | Windmill | - | Hand pur | np | - | Other | | | - | |

| | | | Current* and I | uture | Use Information | | | | | | |
|------------------------|------------|---|--------------------|-------|-----------------|---|-------|---|--|--|--|
| In use | Yes | Х | No | - | Other | - | | | | | |
| Current and future use | Irrigation | Х | Livestock watering | Х | Domestic | Х | Other | - | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

| Sampler | | Samplir | Sampling Information | | | | | | | | | | | |
|--|--------------------|--------------|----------------------|--|--|--|--|--|--|--|--|--|--|--|
| Sampler | | | | | | | | | | | | | | |
| | Anton Botha | Date sampled | 12/04/2016 | | | | | | | | | | | |
| Sample type Inorganic Static water level - | | | | | | | | | | | | | | |
| Short locality description: Comments: Water for dome | estic workers samp | | | | | | | | | | | | | |



| PROJECT DETAILS | Rietkol Project |
|-----------------|-----------------|
| | |

| | | Pers | onal Details | |
|------------------|--------------|--------------------|------------------------|--------------------------|
| Physical address | RIA | COLINE PROPERT | IES BK | |
| Postal address | РО | BOX 573, DELMAS | 5, 2210 | No Profile Picture Taken |
| District/Town | | Delmas, 2210 | No Frome Picture Taken | |
| Owner | | Jaco Roux | | |
| Contact person | | Jaco Roux | | |
| Cell | 082 442 3458 | Tel | - | |
| Fax | | - | | |
| E-mail | | jrjacoroux@gmail.c | om | Signature |



| | | | | Sourc | e Ir | nformation | | | | | | | | |
|------------------------|----|-----------------|-----|-----------------|----------------|-----------------|-------|----------|------|-------|----------|---|------|---|
| Project | | Rietkol Project | | Lo | ocality number | | 227JR | | | | | | | |
| Coordinates | | X-coordinate | | 28.61380 | | Y-coordinate | 26.1 | 2330 | | Z-co | ordinate |) | 1584 | |
| Locality type | | Borehole | | | D | ate drilled | | | Unk | nown | | | | |
| Borehole depth | - | | Bor | rehole diameter | | Unknown | | Collar | heig | jht | | - | | |
| Estimated yield per ho | ur | - | | | Te | est certificate | | | Yes | ; | | - | No | - |
| Reservoir & size | - | | | | | | | | | | | | | |
| Liter | | Submersible | T - | Mono pump | - | Windmill | - | Hand pun | np | I - I | Other | | - | |

| | | | Current* and I | Future | Use Information | | | |
|------------------------|------------|---|--------------------|--------|-----------------|---|-------|---|
| In use | Yes | - | No | Х | Other | - | | |
| Current and future use | Irrigation | - | Livestock watering | - | Domestic | - | Other | - |
| | | | | | | | | |
| | | | | | | | | |

| | | Samplir | ng Information | and the second s |
|------------------------------|---------------------------|---------------------------------|------------------------|--|
| Sampler Sample type | Werner Rossouw | Date sampled Static water level | 12/04/2016 | WY CONTRACTOR |
| | otion: Borehole behind si | mall informal settlement, | next to a single tree. | |
| Comments: Borehold dug open. | e covered with a concrete | filled drum, covered by | gravel. Needs to be | |



PROJECT DETAILS Rietkol Project

| Personal Details | | | | |
|------------------|---|-----|--------------|----------------------------|
| Physical address | MODDER EAST ORCHARDS AH, HOLDING 266 | | | - No Profile Picture Taken |
| Postal address | PO BOX 1696, DELMAS , MPUMALANGA , 2210 | | | |
| District/Town | DELMAS, 2210 | | | |
| Owner | Hennie Du Plessis | | | |
| Contact person | Hennie Du Plessis | | | |
| Cell | 072 908 8535 | Tel | 013 668 0916 | |
| Fax | - | | | |
| E-mail | hennied@gmail.com | | | Signature |



| | Source Information | | | | | | | | | | | | | |
|-------------------------|--------------------|-----------------|----|-----------------|--------------|-----------------|-------|----------|-------|------|---------|---|------|---|
| Project | | Rietkol Project | | | L | ocality number | | | 229 | HDP | | | | |
| Coordinates | | X-coordinate | | 28.61085 | | Y-coordinate | 26.12 | 2126 | | Z-co | ordinat | е | 1592 | |
| Locality type | | Borehole | | | Date drilled | | | | 2008 | | | | | |
| Borehole depth | 115 m | | Во | rehole diameter | Unknown | | | Colla | r hei | ght | | - | | |
| Estimated yield per hou | ır | 8000 l/h | | | T | est certificate | | | Yes | 3 | | - | No | Х |
| Reservoir & size | 50001 | JOJO tank | | | | | | | | | | | | |
| Liter | | Submersible | X | Mono pump | - | Windmill | - I | Hand pur | mp | - | Other | r | - | |

| Current* and Future Use Information | | | | | | | | | | | | | |
|-------------------------------------|------------|---|--------------------|---|----------|---|-------|---|--|--|--|--|--|
| In use | Yes | Х | No | - | Other | - | | | | | | | |
| Current and future use | Irrigation | Х | Livestock watering | - | Domestic | Х | Other | - | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| | | Sampli | ng Information | |
|-----------------------------------|--------------------------|---------------------------------|-----------------------|--|
| Sampler Sample type | Anton Botha Inorganic | Date sampled Static water level | 11/04/2016 | |
| Short locality descrip structure. | tion: Borehole next to h | ouse, pumping to JoJo | ank situated on steel | |
| Comments: No acces | s regarding depth due t | o installed pump. | | |



PROJECT DETAILS Rietkol Project

| | | onal Details | | |
|------------------|--------------|------------------|--------------------------|--|
| Physical address | 14 BESTER | STR, BOTLENG, I | DELMAS, 2210 | |
| Postal address | POI | BOX 2410, DELMA | No Profile Picture Taken | |
| District/Town | | DELMAS, 2210 | No Profile Picture Laken | |
| Owner | | Naude Rossouw | 1 | |
| Contact person | Jan Adri | aan Rossouw, Nic | k Pretorius | |
| Cell | 082 651 2000 | Tel | | |
| Fax | | - | | |
| E-mail | | naude@rossgro.co | Signature | |



| Source Information | | | | | | | | | | | | | | | |
|-------------------------|----------|------------------|-----|----------------|-----------------|----------------|-----|----------|---------------|--------------|-------|----|----|-----|---|
| Project | | Rietkol Project | | | Locality number | | | | 237 | Vrede | ! | | | | |
| Coordinates | | X-coordinate | | 28.59652 | , | Y-coordinate | 26. | 13312 | | Z-coordinate | | | | 598 | |
| Locality type | Borehole | | | Date drilled | | | | | Unknown | | | | | | |
| Borehole depth | - | | Bor | ehole diameter | | Unknown | | Colla | Collar height | | | 15 | cm | | |
| Estimated yield per hou | ır | ± 3177 l/h | | | Te | st certificate | | | Yes | ; | | - | No | | - |
| Reservoir & size | 8 x 15 (| 000 I JOJO tanks | | | | | | | | | | | | | |
| Liter | | Submersible | X | Mono pump | - | Windmill | - | Hand pui | mp | - | Other | | | - | |

| Current* and Future Use Information | | | | | | | | | | | | | |
|---|------------|---|--------------------|---|----------|---|-------|---|--|--|--|--|--|
| In use Yes X No - Other - | | | | | | | | | | | | | |
| Current and future use | Irrigation | Х | Livestock watering | Х | Domestic | - | Other | - | | | | | |
| Chicken farm, water intensive | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| onionon raini, mator | | | | | | | | | | | | |
|----------------------|--|---|----------------|--|--|--|--|--|--|--|--|--|
| Sampling Information | | | | | | | | | | | | |
| Sampler | Werner Rossouw | Date sampled | 11/04/2016 | | | | | | | | | |
| Sample type | Inorganic | Static water level | 27.28 | | | | | | | | | |
| enclosure. | | o field and pump house, or | | | | | | | | | | |
| | ss to the borehole due to g directly from the boreh | the installed pump. Samp ole. Very strong yield. | ole taken from | | | | | | | | | |

| | | | | Sourc | e Infe | ormation | 100100 | | | | | | | | |
|-------------------------|--------------|------------------|-----------|----------------|-----------------------|---------------|--------|----------|--------|----------|-------|------|-----|---|---|
| Project Rietkol Project | | | _ | | Loc | ality number | | | 234 | Geluk | | | | | |
| Coordinates | X-coordinate | | | 28.62066 | Y-coordinate 26.12674 | | | | Z-co | ordinate |) | 15 | 595 | | |
| Locality type | | Borehole | | 1 | Dat | e drilled | | | Unk | nown | | | | | |
| Borehole depth | ± 47.50 r | n I | Bore | ehole diameter | | Unknown | | Colla | r heig | jht | | 30 c | m | | |
| Estimated yield per hou | ır | - 1 | | | Tes | t certificate | | | Yes | ; | | - | No | | - |
| Reservoir & size | 8 x 15 (| 000 I JOJO tanks | 4 | | | | | | | | | | | | |
| Liter | | Submersible | X | Mono pump | l - | Windmill | - | Hand pur | mp | - | Other | | | - | |
| | | | Th | | _ | | | | | | | | | | |

| | Current* and Future Use Information | | | | | | | | | | | | | |
|---|-------------------------------------|---|--------------------|---|----------|---|-------|---|--|--|--|--|--|--|
| In use Yes X No - Other - | | | | | | | | | | | | | | |
| Current and future use | Irrigation | Х | Livestock watering | Х | Domestic | - | Other | - | | | | | | |
| Chicken farm, water intensive. | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

| | | | ng Information | |
|-----------------------|--|--------------------|----------------|--|
| | | | | |
| Sampler | Werner Rossouw | Date sampled | 11/04/2016 | A Marie William Control of the Control |
| Sample type | Inorganic | Static water level | ± 38 m | |
| Short locality descri | ption: Borehole in open f | | | |
| | ing of depth difficult beca stimated. Only borehole i | | | |



address: 89 regency drive, R21 corporate park, centurion postal: p.o. box 905008, garsfontein, 0042 web: www.aquatico.co.za office: 012 450 3800 • fax: 012 450 3851

PROJECT DETAILS

Rietkol Project

| | | onal Details | | |
|------------------|--------------|-------------------------------|--------------------------|--|
| Physical address | МОДІ | DER EAST ORCHA HOLDING 235 | | |
| Postal address | PO | BOX 136, DELMAS | No Profile Picture Taken | |
| District/Town | | Delmas, 2210 | No Frome Picture Taken | |
| Owner | | Leon Pretorius | | |
| Contact person | | Leon Pretorius | | |
| Cell | 083 701 0079 | Tel | - | |
| Fax | | - | | |
| E-mail | | pretblom@lantic.n | Signature | |

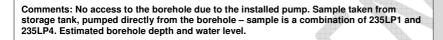


| Source Information | | | | | | | | | | | | | | | |
|-------------------------|---------|------------------|-----|-----------------|-----------------------|----------------|---|----------|--------------|------|-------|---|-----|---|---|
| Project | | Rietkol Project | | | Locality number | | | | 235 | LP1 | | | | | |
| Coordinates | | X-coordinate | | 28.61366 | Y-coordinate 26.11891 | | | | Z-coordinate | | | | 579 | | |
| Locality type Borehole | | | | | Da | te drilled | | | Unk | nown | | | | | |
| Borehole depth | ± 160 m | | Bor | rehole diameter | | Unknown | | Colla | r heig | jht | | - | | | |
| Estimated yield per hor | ır | ± 30000 l/h | | | Te | st certificate | | | Yes | ; | | - | No | | - |
| Reservoir & size | 320 000 |) I storage tank | | | | | | | | | | | | | |
| Liter | | Submersible | X | Mono pump | - | Windmill | - | Hand pur | тр | - | Other | | | - | |

| Current* and Future Use Information | | | | | | | | | | |
|-------------------------------------|------------|---|--------------------|---|----------|---|-------|---|--|--|
| In use | Yes | Х | No | - | Other | - | | | | |
| Current and future use | Irrigation | Х | Livestock watering | - | Domestic | - | Other | - | | |
| Irrigation of Roses | | | | | | | | | | |
| | | | | | | | | | | |

| | | Sampli | ng Information |
|-------------|----------------|--------------------|----------------|
| Sampler | Werner Rossouw | Date sampled | 12/04/2016 |
| Sample type | Inorganic | Static water level | ± 42.69 m |
| | | | |

Short locality description: Borehole furthest West, behind greenhouses.





| | Source Information | | | | | | | | | | | | | | |
|--|--|-----------------|-----|-----------------|------|----------------|------|----------|------|-------|-------|-----|----|------------|---|
| Project | | Rietkol Project | | | Loc | cality number | | | 225l | _P2 | | | | | |
| Coordinates | ates X-coordinate 28.61512 Y-coordinate 26.11951 | | | | 1951 | | Z-co | ordinate | 9 | 15 | 1577 | | | | |
| Locality type Monitoring borehole Date drilled | | | | | | Unkı | nown | | | | | | | | |
| Borehole depth | ± 140 m | | Bor | rehole diameter | | Unknown | | Collar | heig | ght - | | | | | |
| Estimated yield per hou | ır | | | | Tes | st certificate | | | Yes | | | - N | 10 | | - |
| Reservoir & size None | | | | | | | | | | | | | | | |
| Liter | | Submersible | | Mono pump | - | Windmill | - | Hand pur | np | - | Other | | | Monitoring | ı |

| Current* and Future Use Information | | | | | | | | | | |
|-------------------------------------|------------|---|--------------------|---|----------|---|-------|---|--|--|
| In use | Yes | - | No | Х | Other | - | | | | |
| Current and future use | Irrigation | - | Livestock watering | - | Domestic | - | Other | - | | |
| | | | | | | | | | | |

| Sampler | Werner Rossouw | Date sampled | 12/04/2016 | |
|-------------|----------------|--------------------|------------|----------|
| Sample type | Inorganic | Static water level | 42.69 m | |
| | | | | 5 |

| | Source Information | | | | | | | | | | | | | | |
|--------------------------------------|---|---|-----|----------------|-------|----------------|----------|---------|--------|-------|--|---|----|--|---|
| Project Rietkol Project Locality | | | | cality number | | | 225 | LP3 | | | | | | | |
| Coordinates | tes X-coordinate 28.61621 Y-coordinate 26.11798 | | | | 11798 | | Z-co | ordinat | е | 1576 | | | | | |
| Locality type | ype Borehole Date drilled | | | | | Unk | nown | | | | | | | | |
| Borehole depth | 84 m | | Bor | ehole diameter | | Unknown | | Colla | r heig | jht | | - | | | |
| Estimated yield per hou | ır | - | | | Те | st certificate | | | Yes | ; | | - | No | | - |
| Reservoir & size 5000 I JoJo Tank | | | | | | | | | | | | | | | |
| Liter | | Submersible X Mono pump - Windmill - Hand | | | | | Hand pur | тр | - | Other | | | - | | |

| Current* and Future Use Information | | | | | | | | | |
|-------------------------------------|------------|---|--------------------|---|----------|---|-------|---|--|
| In use | Yes | Х | No | - | Other | - | | | |
| Current and future use | Irrigation | Х | Livestock watering | - | Domestic | Х | Other | - | |
| | | | | | | | | | |
| | | | | | | | | | |

| Sampling Information | | | | | | | | | | |
|------------------------|--------------------------|-------------------------|------------|------------------------------|--|--|--|--|--|--|
| Sampler | Werner Rossouw | Date sampled | 12/04/2016 | | | | | | | |
| Sample type | Inorganic | Static water level | 41.64 m | | | | | | | |
| Short locality descrip | tion: Borehole near hou | se next to greenhouse | A | | | | | | | |
| onort locality descrip | tion. Borenoie near nou- | se, next to greenhouse. | | | | | | | | |
| | | | | 100 E 100 E | | | | | | |
| | | | | | | | | | | |
| Comments: Househol | ld borehole. | | | | | | | | | |
| | | | | | | | | | | |
| | | | | (7 E-0 MH) OF TO ULTRACEMENT | | | | | | |

| | Source Information | | | | | | | | | | | | | | |
|-----------------------------------|--------------------|------------------|----------|----------------|--------------|----------------|-------|----------|-------------------|-----|-------|---|----|---|---|
| Project | | Rietkol Project | _ | | Loc | cality number | | | 225 | LP4 | | | | | |
| Coordinates X-coordinate 28.61663 | | | 28.61663 | Y | '-coordinate | 26.1 | 11781 | | Z-coordinate 1576 | | | | | | |
| Locality type | Monitoring bor | ehole | , | Dat | e drilled | | | Unknown | | | | | | | |
| Borehole depth | ± 140 m | | Bor | ehole diameter | | Unknown | | Collar | r heig | jht | | - | | | |
| Estimated yield per hou | ır | ± 30000 l/h | M | | Tes | st certificate | | | Yes | ; | | - | No | | - |
| Reservoir & size | 320 000 |) I storage tank | 1 | | | | | | | | | | | | |
| Liter Submersible X Mono pump | | | | Mono pump | - | Windmill | - | Hand pur | np | - | Other | | | - | |
| | | | 240 | | | | | | | | | | | | |

| | Current* and Future Use Information | | | | | | | | | |
|------------------------|-------------------------------------|---|--------------------|---|----------|---|-------|---|--|--|
| In use | Yes | X | No | - | Other | - | | | | |
| Current and future use | Irrigation | Х | Livestock watering | - | Domestic | - | Other | - | | |
| Irrigation of roses | | | | | | | | | | |
| | | | | | | | | | | |

| | | | ng Information | |
|-----------------------|---|-------------------------------|----------------|--|
| | | | | |
| Sampler | Werner Rossouw | Date sampled | 12/04/2016 | |
| Sample type | Inorganic | Static water level | 42 m | |
| Short locality descri | ption: Borehole furthest | No Locality Picture Available | | |
| | ess to the borehole due to d directly from the boreh orehole depth. | | | |



PROJECT DETAILS Rietkol Project

| | | Pers | onal Details | |
|------------------|--------------|-------------------------------|-----------------------------|--|
| Physical address | MODE | DER EAST ORCHA HOLDING 237 | | |
| Postal address | PO BO) | (138, ELOFF, DEL | No Profile Picture Taken | |
| District/Town | | DELMAS, 2210 | - No Profile Picture Takeri | |
| Owner | | Japie Viljoen | | |
| Contact person | | Japie Viljoen | | |
| Cell | 082 787 2943 | Tel | | |
| Fax | | - | | |
| E-mail | | tinus@stolsrose.co | Signature | |



| | Source Information | | | | | | | | | | | | | | |
|------------------------|-------------------------|---|-----|----------------|---------------------|----------------|-----|---------|--------|--------------|-------|------|----|-----|---|
| Project | Project Rietkol Project | | | | | cality number | | | 237 | JV1 | | | | | |
| Coordinates | X-coordinate 28.61359 | | | | \ | Y-coordinate | 26. | 11633 | | Z-coordinate | | | | 581 | |
| Locality type Borehole | | | | | Date drilled | | | | | nown | | | | | |
| Borehole depth | 101 m | | Bor | ehole diameter | Unknown Coll | | | | r heig | jht | | 10 (| cm | | |
| Estimated yield per ho | ur | - | | | Tes | st certificate | | | Yes | ; | | - | No | | - |
| Reservoir & size | servoir & size - | | | | | | | | | | | | | | |
| Liter Submersible X | | | | Mono pump | - | Windmill | - | Hand pu | mp | - | Other | | | - | |

| | Current* and Future Use Information | | | | | | | | | | | | | |
|---------------------------|-------------------------------------|---|--------------------|---|----------|---|-------|---|--|--|--|--|--|--|
| In use Yes - No X Other - | | | | | | | | | | | | | | |
| Current and future use | Irrigation | - | Livestock watering | - | Domestic | - | Other | - | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

| | Sampling Information | | | | | | | | | | | | | |
|-------------|----------------------|-------------------------|------------|--|--|--|--|--|--|--|--|--|--|--|
| Sampler | Werner Rossouw | Date sampled | 11/04/2016 | A Company of the Comp | | | | | | | | | | |
| Sample type | - | Static water level | 27.05 m | | | | | | | | | | | |
| | <u> </u> | s not in working order. | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | 41/ | | | | | | | | | | | | |

| | Source Information | | | | | | | | | | | | | |
|-------------------------|--------------------|-----------------|-------------------|-----|-----------------|------|------------|---------|----------|-----|------|---|--|--|
| Project | | Rietkol Project | | | Locality number | | | | | | | | | |
| Coordinates | | X-coordinate | 28.61387 | Y | /-coordinate | 26.1 | 1662 | Z-co | oordinat | е | 1579 | | | |
| Locality type | | Borehole | | | te drilled | | Ur | Unknown | | | | | | |
| Borehole depth | ± 61 m | | Borehole diameter | | Unknown | | Collar hei | ght | | - | | | | |
| Estimated yield per hor | ur | - | | Tes | st certificate | | Ye | s | | - 1 | No | - | | |
| Reservoir & size | - | | | | | | | | | | | | | |
| Liter | | Submersible | X Mono pump | - | Windmill | - | Hand pump | - | Other | | - | | | |

| | Current [⋆] and Future Use Information | | | | | | | | | | | | | |
|---------------------------|---|---|--------------------|---|----------|---|-------|---|--|--|--|--|--|--|
| In use Yes - No X Other - | | | | | | | | | | | | | | |
| Current and future use | Irrigation | - | Livestock watering | - | Domestic | - | Other | - | | | | | | |
| | | | | | | | | | | | | | | |
| | A | | | | | | | | | | | | | |

| | | Samplii | ng Information | | | | | | | | |
|---|------------------------|--------------------------|----------------|--|--|--|--|--|--|--|--|
| Sampler | Werner Rossouw | Date sampled | 11/04/2016 | | | | | | | | |
| Sample type | - | Static water level | 25.5 m | | | | | | | | |
| Short locality description: Borehole in open field. | | | | | | | | | | | |
| Comments: No water | r sample taken as pump | is not in working order. | Weak yield. | | | | | | | | |

| | Source Information | | | | | | | | | | | | | | |
|-----------------------------------|-------------------------|-------------|----|-----------------|---------------------|-----------------|-------|----------|-------|-------|---------|----|-----|----|---|
| Project | Project Rietkol Project | | | | Lo | ocality number | | | 237 | 7JV3 | | | | | |
| Coordinates X-coordinate 2 | | | | 28.61425 | | Y-coordinate | 26.11 | 1648 | | Z-co | ordinat | 9 | 157 | '8 | |
| Locality type Borehole | | | | | Date drilled | | | | Unl | known | | | | | |
| Borehole depth | ± 65 m | | Во | rehole diameter | Unknown Coll | | | | r hei | ght | | 40 | cm | | |
| Estimated yield per hou | ır | | | | Te | est certificate | | | Yes | 3 | | - | No | | - |
| Reservoir & size 5000 I JOJO tank | | | | | | | | | | | | | | | |
| Liter | | Submersible | X | Mono pump | - | Windmill | - I | Hand pur | пр | - | Other | | | | |

| | Current* and Future Use Information | | | | | | | | | | | | | |
|---------------------------|-------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| In use Yes X No - Other - | | | | | | | | | | | | | | |
| Current and future use | | | | | | | | | | | | | | |
| Irrigation of roses | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

| | | Sampling | g Information | |
|---------------------|--------------------------|--------------------|---------------|---------|
| Sampler | Werner Rossouw | Date sampled | 11/04/2016 | |
| Sample type | Inorganic | Static water level | 28.55 | 3 W W 3 |
| Comments: Strong yi | tion: Borehole in open f | ield. | | |



address: 89 regency drive, R21 corporate park, centurion postal: p.o. box 905008, garsfontein, 0042 web: www.aquatico.co.za office: 012 450 3800 • fax: 012 450 3851

| | PROJECT DETAILS | Rietkol Project | |
|------------------|-----------------|-----------------|---------------|
| | Person | al Details | |
| Physical address | - | | |
| Postal address | - | | |
| District/Town | DELMAS, 2210 | | |
| Owner | Louis Louman | | |
| Contact person | Martin van Zyl | | 1-32 |
| Cell | - Tel | - | AV. THE PARTY |
| Fax | - | | |
| E-mail | _ | | Signature |



| | Source Information | | | | | | | | | | | | | | |
|---------------------------|-------------------------------|---|-----|----------------|------------------|---------------|----------|----------|--------|------|--------------|---|----|-----|---|
| Project | Project Rietkol Project | | | | | cality number | | | 237 | LL1 | | | | | |
| Coordinates | X-coordinate 28.58494 | | | | | '-coordinate | 26.12340 | | | | Z-coordinate | | | 570 | |
| Locality type Borehole | | | | | Date drilled | | | | Unk | nown | | | | | |
| Borehole depth | - | | Bor | ehole diameter | | Unknown | | Colla | r heig | ht | | - | | | |
| Estimated yield per hou | ır | - | | | Test certificate | | | | Yes | | | - | No | | - |
| Reservoir & size Open dam | | | | | | | | | | | | | | | |
| Liter | Liter Submersible X Mono pump | | | | - | Windmill | - | Hand pur | тр | - | Other | | | - | |

| | Current* and Future Use Information | | | | | | | | | | | | | |
|---------------------------|-------------------------------------|---|--------------------|---|----------|---|-------|---|--|--|--|--|--|--|
| In use Yes X No - Other - | | | | | | | | | | | | | | |
| Current and future use | Irrigation | Х | Livestock watering | - | Domestic | - | Other | - | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

| Sampling Information | | | | | | | | | | | | |
|--|---|---------------------------------|--------------|--|--|--|--|--|--|--|--|--|
| Sampler Sample type | Werner Rossouw Inorganic | Date sampled Static water level | 11/04/2016 | | | | | | | | | |
| Short locality description: Borehole in crop field, red pipes. Near N12 highway. | | | | | | | | | | | | |
| | es to borehole due to ins ation of different sources | | en from dam, | | | | | | | | | |

| | Source Information | | | | | | | | | | |
|-------------------------|--------------------|-----------------------|-------------------|------------------|-----------|-----------|-----|------|---|--|--|
| Project | | Rietkol Project | | Locality number | 237LL2 | | | | | | |
| Coordinates | | X-coordinate 28.58368 | | Y-coordinate | 26.12419 | Z-coordin | ate | 1569 | | | |
| Locality type | | Borehole | | Date drilled | | Unknown | | | | | |
| Borehole depth | - | | Borehole diameter | Unknown | Colla | ar height | - | | | | |
| Estimated yield per hou | r | - | | Test certificate | | Yes | - 1 | No | - | | |
| Reservoir & size | Open d | am | | | | | | | | | |
| Liter | | Submersible | X Mono pump | - Windmill | - Hand pu | ımp - Oth | ner | - | | | |

| | The second second | | *CONTROL CONTROL | | | | | | | | | |
|------------------------|-------------------------------------|------|--------------------|---|----------|---|-------|--|--|--|--|--|
| | Current* and Future Use Information | | | | | | | | | | | |
| | | | | | | | | | | | | |
| In use | Yes | X | No | _ | Other | _ | | | | | | |
| | . 00 | 1. 4 | | | | | | | | | | |
| Current and future use | Irrigation | X | Livestock watering | _ | Domestic | _ | Other | | | | | |
| Carrent and latere use | inigation | ^ | Livestock watering | | Domestic | | Other | | | | | |
| | | | | | | | | | | | | |
| W | | | | | | | | | | | | |
| | | | | | | | | | | | | |

| | | Samplir | ng Information | |
|------------------------|---|--------------------|----------------|--|
| Sampler | Werner Rossouw | Date sampled | 11/04/2016 | |
| Sample type | Inorganic | Static water level | - | |
| Short locality descrip | tion: Borehole in crop fi | | | |
| | ss to borehole due to ins ation of different sources | | en from dam, | |

| | Source Information | | | | | | | | | | | | | | |
|-------------------------|--------------------|-----------------|-----|----------------|------------------|---------------|-----|----------|-------------|--------------|-------|----|-----|---|---|
| Project | | Rietkol Project | | | Loc | cality number | | | 237 | LL3 | | | | | |
| Coordinates | | X-coordinate | | 28.58274 | 1 | Y-coordinate | 26. | 26.12441 | | Z-coordinate | | 1: | 569 | | |
| Locality type | Borehole | | | | Date drilled | | | | | Unknown | | | | | |
| Borehole depth | - | | Bor | ehole diameter | | Unknown | | Colla | ar height - | | | | | | |
| Estimated yield per hou | ır | - | | | Test certificate | | | | Yes | | | - | No | | - |
| Reservoir & size | Open d | am | | | | | | | | | | | | | |
| Liter | | Submersible | X | Mono pump | - | Windmill | - | Hand pu | mp | - | Other | | | - | |

| Current* and Future Use Information | | | | | | | | | | | |
|-------------------------------------|------------|---|--------------------|---|----------|-----------|--|--|--|--|--|
| In use | Yes | Х | No | - | Other | - | | | | | |
| Current and future use | Irrigation | Х | Livestock watering | - | Domestic | - Other - | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

| | Sampling Information | | | | | | | | | | | | |
|------------------------|---|---------------------------------|----------------|--|--|--|--|--|--|--|--|--|--|
| Sampler Sample type | Werner Rossouw Inorganic | Date sampled Static water level | 11/04/2016 | | | | | | | | | | |
| Short locality descrip | otion: Borehole Near crop | o field, red pipes. Next to | o N12 highway. | | | | | | | | | | |
| | ss to borehole due to ins ation of different sources | | en from dam, | | | | | | | | | | |

| | Source Information | | | | | | | | | | | |
|-------------------------|--------------------|------------------|-------------------|------------------|----------|--------|------------|----|------|---|--|--|
| Project | | Rietkol Project | | Locality number | | | 237LL4 | | | | | |
| Coordinates | | X-coordinate 28. | | Y-coordinate | 26.12748 | | Z-coordina | te | 1579 | | | |
| Locality type | type Borehole | | | Date drilled | Unknown | | | | | | | |
| Borehole depth | - | | Borehole diameter | Unknown | Coll | ar hei | ght | - | | | | |
| Estimated yield per hou | r | - | | Test certificate | | Ye | S | - | No | - | | |
| Reservoir & size | Open d | am | | | | | | | | | | |
| Liter | | Submersible | X Mono pump | - Windmill | - Hand p | ump | - Othe | r | - | | | |

| Current* and Future Use Information | | | | | | | | | | | |
|-------------------------------------|------------|---|--------------------|---|----------|---|-------|---|--|--|--|
| In use | Yes | Х | No | - | Other | - | | | | | |
| Current and future use | Irrigation | Х | Livestock watering | - | Domestic | - | Other | - | | | |
| | | | | | | | | - | | | |
| | | | | | | | | | | | |

| | | Samplir | ng Information | |
|------------------------------|---|--------------------|----------------|--|
| Sampler | Werner Rossouw | Date sampled | 11/04/2016 | |
| Sample type | Inorganic | Static water level | - | |
| Short locality descrip farm. | tion: Borehole next to c | | | |
| | ss to borehole due to ins ation of different sources | | en from dam, | |



address: 89 regency drive, R21 corporate park, centurion postal: p.o. box 905008, garsfontein, 0042 web: www.aquatico.co.za office: 012 450 3800 • fax: 012 450 3851

PROJECT DETAILS Rietkol Project

| | | Pers | onal Details | |
|------------------|--------------|-------------------|--------------------------|---------------------------|
| Physical address | MODDER E | AST ORCHARDS, | HOLDING 266 | |
| Postal address | РО | BOX 818, DELMAS | 3, 2210 | No Postilo Dichora Talura |
| District/Town | | DELMAS, 2210 | No Profile Picture Taken | |
| Owner | | Dennis Ian Webst | er | |
| Contact person | | Dennis Ian Webst | er | |
| Cell | 082 891 2697 | Tel | 013 665 3940 | |
| Fax | | - | | |
| E-mail | webs | ster.dennis754@gm | Signature | |



| | Source Information | | | | | | | | | | | | | | |
|------------------------|----------------------|-----------------|----------|-----------------|----------------------|----------------|---------|----------|--------------|------|-------|-----|----|--|---|
| Project | | Rietkol Project | t | | Locality number | | | | 266 | IDW1 | | | | | |
| Coordinates | ates X-coordinate 28 | | 28.62148 | , | Y-coordinate | 26. | 11989 | | Z-coordinate | | | 158 | 36 | | |
| Locality type Bore | | Borehole | | Date drilled | | | Unknown | | | | | | | | |
| Borehole depth | 57 m | | Bo | rehole diameter | Unknown Colla | | | Collai | ar height - | | | | | | |
| Estimated yield per ho | ur | - | | | Te | st certificate | | | Yes | ; | | - 1 | No | | - |
| Reservoir & size | - | | | | | | | | | | | | | | |
| Liter | | Submersible | X | Mono pump | - | Windmill | - | Hand pur | пр | - | Other | | - | | |

| | Current* and Future Use Information | | | | | | | | | | |
|------------------------|-------------------------------------|---|--------------------|---|----------|---|-------|---|--|--|--|
| In use | In use Yes X No - Other - | | | | | | | | | | |
| Current and future use | Irrigation | Х | Livestock watering | - | Domestic | Х | Other | - | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

| | Sampling Information | | | | | | | | | | | |
|-------------|---|--------------------|------------|--|--|--|--|--|--|--|--|--|
| Sampler | Anton Botha | Date sampled | 11/04/2016 | | | | | | | | | |
| Sample type | Inorganic | Static water level | - | | | | | | | | | |
| , | otion: Borehole north of I | , | | | | | | | | | | |
| | from a tap at the house. le tank. No access to wat | | | | | | | | | | | |

| | | | | | 1 | | | | | | | | | |
|-------------------------|--------------------|-----------------|------|----------------|-----|---------------|-----|----------|--------|------|----------|---|------|---|
| | Source Information | | | | | | | | | | | | | |
| Project | | Rietkol Project | _ | | Loc | ality number | | | 266 | IDW2 | | | | |
| Coordinates | | X-coordinate | | 28.62102 | Y | -coordinate | 26. | 12049 | | Z-co | ordinate | 9 | 1585 | |
| Locality type | | Borehole | P | | Dat | e drilled | | | Unk | nown | | | | |
| Borehole depth | 90 m | | Bore | ehole diameter | | Unknown | | Collai | r heig | ht | | - | | |
| Estimated yield per hou | ır | - | W | | Tes | t certificate | | | Yes | | | - | No | - |
| Reservoir & size | I - a | | 4 | | | | | | | | | | | |
| Liter | | Submersible | Х | Mono pump | - | Windmill | - | Hand pur | mp | - | Other | | - | |
| | | | | | | | | | | | | | | |

| | Current* and Future Use Information | | | | | | | | | |
|---------------------------|-------------------------------------|---|--------------------|---|----------|---|-------|---|--|--|
| In use Yes X No - Other - | | | | | | | | | | |
| Current and future use | Irrigation | Х | Livestock watering | - | Domestic | Х | Other | - | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

| Sampler | Anton Botha | Date sampled | 11/04/2016 | |
|--|--------------------------------------|-------------------------------|------------|--|
| Sample type | Inorganic | Static water level | - | |
| Short locality descrip | tion: Borehole south of | No Locality Picture Available | | |
| Comments: Sampled 266IDW2 from a singl | I from a tap at the house e tank. | | | |



address: 89 regency drive, R21 corporate park, centurion postal: p.o. box 905008, garsfontein, 0042 web: www.aquatico.co.za office: 012 450 3800 • fax: 012 450 3851

PROJECT DETAILS Rietkol Project

| | | Pers | onal Details | |
|------------------|-----------------|------------------|------------------------|--------------------------|
| Physical address | PLOT, PLAAS HEI | (POORT RD, DELI | | |
| Postal address | POS | BUS 1367, DELMA | S, 2210 | No Profile Picture Taken |
| District/Town | | DELMAS, 2210 | No Frome Ficture Taken | |
| Owner | Louis | Frederik Jacobus | Cremer | |
| Contact person | | Louis Cremer | | |
| Cell | 083 929 0092 | Tel | | |
| Fax | | - | | |
| E-mail | | - | Signature | |



| | | | | Source | e In | formation | | | | | | | | | |
|-------------------------|-------|-----------------|-----------------------|-------------------------|-----------------|----------------|--------|----------|---------|---|--------------|-----|----|----|---|
| Project | | Rietkol Project | t | | Locality number | | | | 271LFJ1 | | | | | | |
| Coordinates | | X-coordinate | C-coordinate 28.61996 | | | Y-coordinate | 26. | 26.12345 | | | Z-coordinate | | | 92 | |
| Locality type | | Borehole | | Date drilled | | | | Unknown | | | | | | | |
| Borehole depth | - | | Во | orehole diameter - Coll | | | Collar | heig | ht | | - | | | | |
| Estimated yield per hou | r | - | | | Те | st certificate | | | Yes | | | - 1 | No | | - |
| Reservoir & size | 50001 | IOJO Tank | O Tank | | | | | | | | | | | | |
| Liter | | Submersible | X | Mono pump | - | Windmill | - | Hand pum | пр | - | Other | | | - | |

| | Current* and Future Use Information | | | | | | | | | |
|------------------------|-------------------------------------|---|--------------------|---|----------|---|-------|---|--|--|
| In use | Yes | Х | No | - | Other | - | | | | |
| Current and future use | Irrigation | х | Livestock watering | - | Domestic | Х | Other | - | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

| | | Samplin | g Information | |
|------------------------|-------------------|--------------------|---------------|--|
| Sampler | Anton Botha | Date sampled | 11/04/2016 | |
| Sample type | Inorganic | Static water level | - | |
| Short locality descrip | tion: | | | |
| | | | | |
| Comments: Sampled | at tap from tank. | | | |

| | | Source | e Information | | | | | |
|--------------------------|-----------------|-------------------|------------------|------------|-------------|------|------|---|
| Project | Rietkol Project | | Locality number | | 271LFJ2 | | | |
| Coordinates | X-coordinate | 28.61981 | Y-coordinate | 26.12371 | Z-coordinat | te | 1592 | |
| Locality type | Borehole | | Date drilled | | Unknown | | | |
| Borehole depth - | | Borehole diameter | - | Collar | height | - | | |
| Estimated yield per hour | - | | Test certificate | | Yes | - No | 0 | - |
| Reservoir & size - | | | | | | | | |
| Liter | Submersible | X Mono pump | - Windmill | - Hand pun | np - Othe | r | - | |
| | | | | | | | | |

| | Current* and Future Use Information | | | | | | | | | | |
|---------------------------|-------------------------------------|---|--------------------|---|----------|---|-------|---|--|--|--|
| In use Yes - No X Other - | | | | | | | | | | | |
| Current and future use | Irrigation | - | Livestock watering | - | Domestic | - | Other | - | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

| | | | g Information | |
|------------------------|-------------|--------------------|---------------|--|
| | | | | |
| Sampler | Anton Botha | Date sampled | 11/04/2016 | |
| Sample type | - | Static water level | - | |
| Short locality descrip | tion: | | | |
| Comments: No Water | | | | |



address: 89 regency drive, R21 corporate park, centurion postal: p.o. box 905008, garsfontein, 0042 web: www.aquatico.co.za office: 012 450 3800 • fax: 012 450 3851

PROJECT DETAILS Rietkol Project

| | | Pers | onal Details | |
|------------------|--------------|-------------------------------|--------------------------|-----------|
| Physical address | МОДІ | DER EAST ORCHA HOLDING 272 | | |
| Postal address | PO | BOX 2181, DELMA | No Profile Picture Taken | |
| District/Town | | Delmas, 2210 | No Frome Ficture Taken | |
| Owner | | Johan Rudloph | | |
| Contact person | | Louis | | |
| Cell | 078 277 4383 | Tel | - | |
| Fax | | - | | |
| E-mail | Eliz | marudolph44@gma | ail.com | Signature |

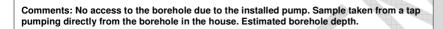


| | | | | Sourc | e In | formation | | | | | | | | | |
|-------------------------|--------|--------------------|-----|----------------|-----------------|----------------|-----|----------|---------|--------------|-------|---|----|-----|---|
| Project | | Rietkol Project | | | Locality number | | | | 272 | JR1 | | | | | |
| Coordinates | | X-coordinate 28.61 | | | \ | Y-coordinate | 26. | 12446 | | Z-coordinate | | | 1 | 586 | |
| Locality type | | Borehole | | | Date drilled | | | | Unknown | | | | | | |
| Borehole depth | ± 65 m | | Bor | ehole diameter | | Unknown | | Colla | r heig | jht | | - | | | |
| Estimated yield per hou | ır | | | | Tes | st certificate | | | Yes | ; | | - | No | | - |
| Reservoir & size | 50001 | oJo Tank | | | | | | | | | | | | | |
| Liter | | Submersible | X | Mono pump | - | Windmill | - | Hand pur | mp | - | Other | | | - | |

| Current* and Future Use Information | | | | | | | | | |
|-------------------------------------|------------|---|--------------------|---|----------|---|-------|---|--|
| In use | Yes | Х | No | - | Other | - | | | |
| Current and future use | Irrigation | х | Livestock watering | Х | Domestic | Х | Other | - | |
| | | | | | | | | | |
| | | | | | | | | | |

| | | Sampli | ng Information |
|-------------|----------------|--------------------|----------------|
| Sampler | Werner Rossouw | Date sampled | 12/04/2016 |
| Sample type | Inorganic | Static water level | - |
| | | | - 4 |

Short locality description: Borehole next to JoJo Tank, in field near house.





| | Source Information | | | | | | | | | | | | | | |
|------------------------|--------------------|-----------------|-----|----------------|-----------------|---------------|-----|----------|--------|------|----------|---|----|-----|---|
| Project | Rietkol Project | Rietkol Project | | | Locality number | | | | 272JR2 | | | | | | |
| Coordinates | | X-coordinate | | 28.61943 | Y | -coordinate | 26. | 12496 | | Z-co | ordinate | Э | 1 | 587 | |
| Locality type | | Open well | p. | | Date | e drilled | | | Unkr | nown | | | | | |
| Borehole depth | Unknown | | Bor | ehole diameter | | Unknown | | Collar | heigl | ht | | - | | | |
| Estimated yield per ho | ur | - | M | | Tes | t certificate | | | Yes | | | - | No | | - |
| Reservoir & size | l - a | | | | | | | | | | | | | | |
| Liter | | Submersible | - | Mono pump | - | Windmill | - | Hand pun | np | - | Other | | | - | |

| Current* and Future Use Information | | | | | | | | | | |
|-------------------------------------|------------|---|--------------------|---|----------|---|-------|---|--|--|
| In use | Yes | - | No | Х | Other | - | | | | |
| Current and future use | Irrigation | - | Livestock watering | - | Domestic | - | Other | - | | |
| | | | | | | | | | | |
| * | | | | | | | | | | |

| | | Samplii | ng Information | | | | | | | |
|---|----------------|--------------------|----------------|--|--|--|--|--|--|--|
| Sampler | Werner Rossouw | Date sampled | 12/04/2016 | | | | | | | |
| Sample type | Inorganic | Static water level | ± 6 m | | | | | | | |
| Short locality description: Well near house | | | | | | | | | | |

Comments: No access to the bottom of the well due to a plate in the well. Sample taken directly from the well.





address: 89 regency drive, R21 corporate park, centurion postal: p.o. box 905008, garsfontein, 0042 web: www.aquatico.co.za office: 012 450 3800 • fax: 012 450 3851

PROJECT DETAILS

Rietkol Project

| | | Pers | onal Details | |
|------------------|--------------|----------------------------|--------------------------|--|
| Physical address | МОДІ | DER EAST ORCHA 277 PLOT | | |
| Postal address | FARM HOLF | ONTEIN, PERSIDA | No Profile Picture Taken | |
| District/Town | | DELMAS, 2210 | No Frome Picture Taken | |
| Owner | | Kobus Greeff | | |
| Contact person | | Kobus Greeff | | |
| Cell | 081 861 5600 | Tel | | |
| Fax | | - | | |
| E-mail | | jjgreeff@gmail.co | Signature | |



| | | | | Source | e In | formation | | | | | | | | |
|-------------------------|----------|-------------------------|-----------------|----------------|-----------------------|-----------|-------|----------|--------------|----|-------|------|----|---|
| Project | | Rietkol Project | Locality number | | | | 277KG | | | | | | | |
| Coordinates | | X-coordinate | | 28.61530 | Y-coordinate 26.12674 | | 2674 | | Z-coordinate | | • | 1596 | | |
| Locality type | Borehole | | | | Date drilled | | | Unknown | | | | | | |
| Borehole depth | - | | Bor | ehole diameter | - Colla | | | Collar | heig | ht | | - | | |
| Estimated yield per hou | ır | 40 000 I / 40 m | iin. | | Test certificate | | | | Yes | | | - N | lo | Х |
| Reservoir & size | 2 x 20 (| 000 I JOJO tanks | ; | | | | | | | | | | | |
| Liter | | Submersible X Mono pump | | | | Windmill | - | Hand pur | np | - | Other | | - | |

| | Current* and Future Use Information | | | | | | | | | |
|------------------------|-------------------------------------|---|--------------------|---|----------|---|-------|---|--|--|
| In use | Yes | Х | No | - | Other | - | | | | |
| Current and future use | Irrigation | х | Livestock watering | - | Domestic | Х | Other | - | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

| | | Samplir | g Information | | | | | | | |
|----------------------------------|--|--------------------------|-------------------|--|--|--|--|--|--|--|
| Sampler | Anton Botha | Date sampled | 12/04/2016 | The state of the s | | | | | | |
| Sample type | Inorganic | Static water level | - | 27 200 | | | | | | |
| the workshop. Comments: Sampled | Short locality description: Borehole at house, pumping to JoJo tanks at house as well as | | | | | | | | | |
| pump. | at nouse tap. No access | regarding the water leve | state to instance | | | | | | | |

•



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PROJECT DETAILS

Rietkol Project

| | | Pers | onal Details | |
|------------------|--------------------------------|------------------------------|----------------------------|--|
| Physical address | МОДДІ | ER EAST ORCHA HOLDING 279 | RDS AH, | |
| Postal address | PO E | BOX 535 DELMAS | No Profile Picture Taken | |
| District/Town | | DELMAS, 2210 | - No Profile Picture Taken | |
| Owner | Jan Dı | u Plooy / Roy Ro | bertson | |
| Contact person | Jan Dı | u Plooy / Roy Ro | bertson | |
| Cell | 082 892 0418 / 082 891 9726 | Tel | | |
| Fax | | - | | |
| E-mail | jan.duplooy@combined | lpi.co.za/ roy.robe | Signature | |



| | | | | Sourc | e Inf | ormation | | | | | | | | | |
|------------------------|------|------------------|-----|----------------|------------|----------------|-----|----------|--------------|------|-------|---|----|-----|---|
| Project | | Rietkol Project | | | Loc | cality number | | | 281 | JDP1 | | | | | |
| Coordinates | | X-coordinate | | 28.61513 | 1 | /-coordinate | 26. | 12885 | Z-coordinate | | | | 15 | 598 | |
| Locality type | | Monitoring Bore | e | Dat | te drilled | | | Unknown | | | | | | | |
| Borehole depth | 54 m | | Bor | ehole diameter | - Colla | | | | r heig | ght | | - | | | |
| Estimated yield per ho | ur | 10 000 I / 11 ho | ur | | Tes | st certificate | | | Yes | 3 | | - | No | | Х |
| Reservoir & size | - | | | | | | | | | | | | | | |
| Liter | | Submersible | Х | Mono pump | - | Windmill | - | Hand pur | тр | - | Other | | | - | |

| Current* and Future Use Information | | | | | | | | | | | | | |
|-------------------------------------|------------|---|--------------------|---|----------|---|-------|---|--|--|--|--|--|
| In use Yes X No - Other - | | | | | | | | | | | | | |
| Current and future use | Irrigation | - | Livestock watering | Х | Domestic | Х | Other | - | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| | | Sampli | ng Information | |
|-------------------------------------|---------------------------|--------------------------|----------------------|--|
| Sampler | Anton Botha | Date sampled | 11/04/2016 | |
| Sample type | Inorganic | Static water level | - | The second secon |
| | | | | |
| omments: No acces Igae in water. | ss to borehole due to ins | stalled pump. Sampled fi | rom tap at workshop. | |

| | | | | | 4 | | | | | | | | | | |
|-------------------------|-------|-----------------|------|----------------|--------|---------------|----|----------|---------|------|---------|---|----|-----|---|
| | | | | | P 4 | | 4 | , | | | | | | | |
| | | | | Sourc | e Info | ormation | | | | | | | | | |
| Project | | Rietkol Project | 4 | | Loc | ality number | | | 278 | IDP2 | | | | | |
| Coordinates | | X-coordinate | | 28.61386 | Y | -coordinate | 26 | .12788 | | Z-co | ordinat | е | 1 | 597 | |
| Locality type | | Borehole | | | Date | e drilled | | | Unkr | nown | | | | | |
| Borehole depth | 180 m | | Bore | ehole diameter | jab. | - | | Collai | r heigl | ht | | - | | | |
| Estimated yield per hou | ır | - | T | | Tes | t certificate | | | Yes | | | - | No | | Х |
| Reservoir & size | - | | | | | | | | | | | | | | |
| Liter | | Submersible | X | Mono pump | - | Windmill | - | Hand pur | mp | - | Other | | | - | |

| | Current* and Future Use Information | | | | | | | | | | | |
|------------------------|-------------------------------------|---|--------------------|---|----------|---|-------|---|--|--|--|--|
| In use | Yes | х | No | - | Other | - | | | | | | |
| Current and future use | Irrigation | - | Livestock watering | Х | Domestic | Х | Other | - | | | | |
| | | 7 | | | | | | | | | | |
| | A | | | | | | | | | | | |

| | | Samplir | ng Information | |
|---------------------------------------|--------------------------|--------------------------|----------------------|--|
| Sampler | Anton Botha | Date sampled | 11/04/2016 | |
| Sample type | Inorganic | Static water level | - | |
| Short locality descrip | tion: Borehole within st | eel cage, locked. | | |
| Comments: No acces Algae in water. | s to borehole due to ins | talled pump. Sampled fro | om tap at the house. | |

| | | | | Sourc | e Ir | nformation | | | | | | | | |
|-----------------------------|---------------------------------|-----------------|-----|-----------------|----------------------|------------------------------------|---|----------|-------|-------|-------|------|----|---|
| Project | | Rietkol Project | | | Lc | ocality number | | | 278 | RR | | | | |
| Coordinates | ordinates X-coordinate 28.61343 | | | | | Y-coordinate 26.12667 Z-coordinate | | | | | Э | 1580 | | |
| Locality type Open borehole | | | | | Da | ate drilled | | | Unl | known | | | | |
| Borehole depth | 16.45 m | | Bor | rehole diameter | Unknown Colla | | | Collar | r hei | ght | | - | | |
| Estimated yield per ho | ur | - | | | Te | est certificate | | | Yes | 3 | | - | No | - |
| Reservoir & size | - | | | | | | | | | | | | | |
| Liter | | Submersible | - | Mono pump | - | Windmill | - | Hand pur | пр | - | Other | | - | |

| Current* and Future Use Information | | | | | | | | | | | | | |
|-------------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|
| In use | | | | | | | | | | | | | |
| Current and future use | Current and future use Irrigation - Livestock watering - Domestic - Other - | | | | | | | | | | | | |
| Possible future use for in | Possible future use for irrigation. | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| | | Sampli | ng Information | |
|------------------------|----------------------------|-------------------------|---|--|
| | | Sampin | ig illiorillation | |
| Sampler | Werner Rossouw | Date sampled | 11/04/2016 | AND REAL PROPERTY OF THE PERSON NAMED IN |
| Sample type | Inorganic | Static water level | 10.10 m | |
| Short locality descrip | otion: Borehole at the edg | e of the property perim | eter next to the big | +7 |
| green cellular tower. | | , p p , p | | |
| | | | | |
| | | | | |
| | | | | |
| Comments: Open bo | rehole with rust colored v | water. | | |
| | | | | |
| | | | | Control of the Contro |
| | | -010000- | TOTAL | |



PROJECT DETAILS

Rietkol Project

| | | Pers | onal Details | |
|------------------|--------------|-------------------------------|----------------|--------------------------|
| Physical address | МОДІ | DER EAST ORCHA HOLDING 280 | RDS AH, | |
| Postal address | FARM HOLF | ONTEIN, PERSIDA | , SUNDRA, 2000 | No Profile Picture Taken |
| District/Town | | ELOFF, 2210 | | No Prome Picture Taken |
| Owner | | Elzabe Greyling | ı | |
| Contact person | | Elzabe Greyling | ı | |
| Cell | 072 473 2673 | Tel | - | |
| Fax | | - | | |
| E-mail | elsagreylin | g@mobileemail-vod | lafonesa.co.za | Signature |



| | | | | Sourc | e lı | nformation | | | | | | | | | |
|-------------------------|-----------------------------|-------------|-----|-----------------|---------|------------------------------------|---|----------|--------|------|-------|----|-----|---|---|
| Project | Project Rietkol Project | | | | | ocality number | | | 280 | EG | | | | | |
| Coordinates | nates X-coordinate 28.61589 | | | | | Y-coordinate 26.12967 Z-coordinate | | | | | е | 15 | 596 | | |
| Locality type Borehole | | | | | D | ate drilled | | | Unk | nown | | | | | |
| Borehole depth | ± 43 m | | Boi | rehole diameter | - Colla | | | | r heig | ght | | - | | | |
| Estimated yield per hou | ır | | | | Te | est certificate | | | Yes | ; | | - | No | | Х |
| Reservoir & size | 50001 | IOJO tank | | | | | | | | | | | | | |
| Liter | | Submersible | X | Mono pump | - | Windmill | - | Hand pur | mp | T - | Other | | | - | |

| Current* and Future Use Information | | | | | | | | | | | | | |
|-------------------------------------|------------|---|--------------------|---|----------|---|-------|---|--|--|--|--|--|
| In use | Yes | Х | No | - | Other | - | | | | | | | |
| Current and future use | Irrigation | Х | Livestock watering | Х | Domestic | Х | Other | - | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

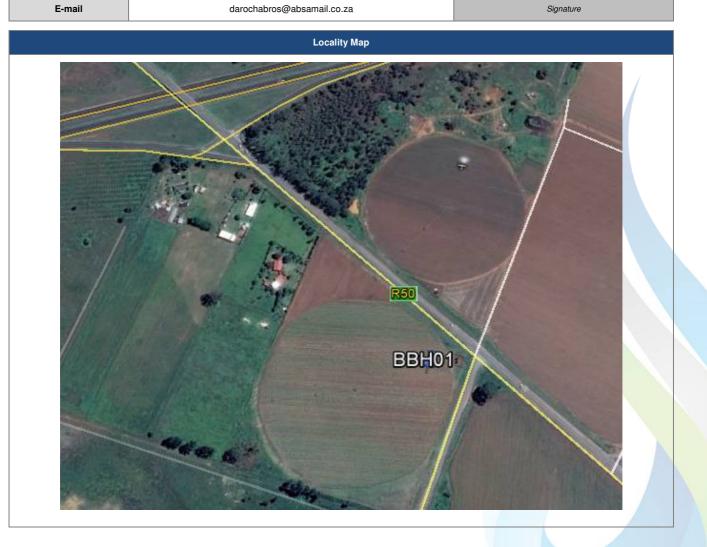
| Sampling Information Sampler Anton Botha Date sampled 11/04/2016 Sample type Inorganic Static water level - rt locality description: Borehole between three households | Sampler Anton Botha Date sampled 11/04/2016 Sample type Inorganic Static water level - | | | | | | | | | | | |
|---|--|----------------------|-----------------|-------------|------------|--|--|--|--|--|--|--|
| Sample type Inorganic Static water level - | Sample type Inorganic Static water level - | Sampling Information | | | | | | | | | | |
| ample type Inorganic Static water level - | ample type Inorganic Static water level - | Complex Ani | ton Rotho Doto | compled | 11/04/2016 | | | | | | | |
| | | | | <u> </u> | 11/04/2010 | | | | | | | |
| rt locality description: Borehole between three households | t locality description: Borehole between three households | Sample type In | norganic Static | water level | - | | | | | | | |
| | | | | | | | | | | | | |

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address: 89 regency drive, R21 corporate park, centurion postal: p.o. box 905008, garsfontein, 0042 web: www.aquatico.co.za office: 012 450 3800 • fax: 012 450 3851

| | PROJECT DETAILS | | Rietkol Project | |
|------------------|-----------------|--------------------|-----------------|---------------------------|
| | | Persona | al Details | |
| Physical address | | - | | |
| Postal address | РО | BOX 635, DELMAS, 2 | 2210 | No Profile Picture Taken |
| District/Town | | Delmas, 2210 | | No Profile Picture Takeri |
| Owner | | Joe Da Rocha | | |
| Contact person | | Luiz Da Rocha | | |
| Cell | 082 452 7797 | Tel | - | |
| Fax | | - | | |



| | | | | Sourc | e In | formation | | | | | | | | | |
|------------------------|---------|-----------------|-----|-----------------|------|----------------|---|---------|--------|------|----------|------|----|---|---|
| Project | | Rietkol Project | t | | Lo | cality number | | | BBI | H01 | | | | | |
| Coordinates | | X-coordinate | | - | | Y-coordinate | - | | | Z-co | ordinate | Э | - | | |
| Locality type | | Borehole | | | Da | ite drilled | | | Unk | nown | | | | | |
| Borehole depth | 26.62 m | | Boi | rehole diameter | | 18 cm | | Colla | r heig | jht | | 22 (| m | | |
| Estimated yield per ho | ur | - | | | Te | st certificate | | | Yes | ; | | - | No | | - |
| Reservoir & size | - | | | | | | | | | | | | | | |
| Liter | | Submersible | X | Mono pump | - | Windmill | - | Hand pu | mp | - | Other | | | - | |

| | | | Current* and I | Future | Use Information | | | | | |
|------------------------|------------|---|--------------------|--------|-----------------|---|-------|---|--|--|
| In use | Yes | Х | No | - | Other | - | | | | |
| Current and future use | Irrigation | х | Livestock watering | - | Domestic | - | Other | - | | |
| Irrigation of crops | | | | | | | | | | |
| | | | | | | | | | | |

| | | Samplir | ng Information | |
|--|---------------------------|--------------------------|-------------------|--|
| Sampler | Anton Botha | Date sampled | 12/04/2016 | |
| Sample type | Inorganic | Static water level | - | |
| Short locality descrip | otion: Borehole at the ed | ge of Da Rocha Bros cro | p field | |
| Comments: Sampled between 70 -80 m. | at water storage dams. | According to owner the I | borehole depth is | |
| Dry/mud at 26.62 m | | | | |



| | | Pers | onal Details | |
|------------------|--------------|-----------------------------------|------------------------|--------------------------|
| Physical address | MOD | DER EAST ORCHA HOLDING 240, 24 | | |
| Postal address | | | | No Profile Picture Taken |
| District/Town | | Delmas, 2210 | No Prome Picture Laken | |
| Owner | | Marius Roland | | |
| Contact person | | Marius Roland | | |
| Cell | 082 493 5253 | Tel | - | |
| Fax | | - | | |
| E-mail | | rentiar@mfc.co.z | a | Signature |



| Source Information | | | | | | | | | | | | | | |
|-------------------------|-------|-----------------|------|-----------------|------------------|----------------|-------|----------|--------|-------------|---|----|------|---|
| Project | | Rietkol Project | | | Lo | ocality number | | | ВВ | H02A | | | | |
| Coordinates | | X-coordinate | | 28.61397 | | Y-coordinate | 26.11 | 26.11336 | | Z-coordinat | e | | 1580 | |
| Locality type | | Monitoring bore | ehol | е | Da | ate drilled | | | Unl | known | | | | |
| Borehole depth | 50 m | | Во | rehole diameter | | 18 cm | | Collai | r heig | ght | - | | | |
| Estimated yield per hou | ır | - | | | Test certificate | | | | Yes | | | No | | - |
| Reservoir & size | 50001 | 000 I JOJO Tank | | | | | | | | | | | | |
| Liter | | Submersible | X | Mono pump | - | Windmill | - H | land pur | np | - Othe | r | | - | |

| | | | Current* and I | uture | Use Information | | | |
|------------------------|------------|---|--------------------|-------|-----------------|---|-------|---|
| In use | Yes | Х | No | - | Other | - | | |
| Current and future use | Irrigation | - | Livestock watering | - | Domestic | Х | Other | - |
| | | | | | | | | |
| | | | | | | | | |

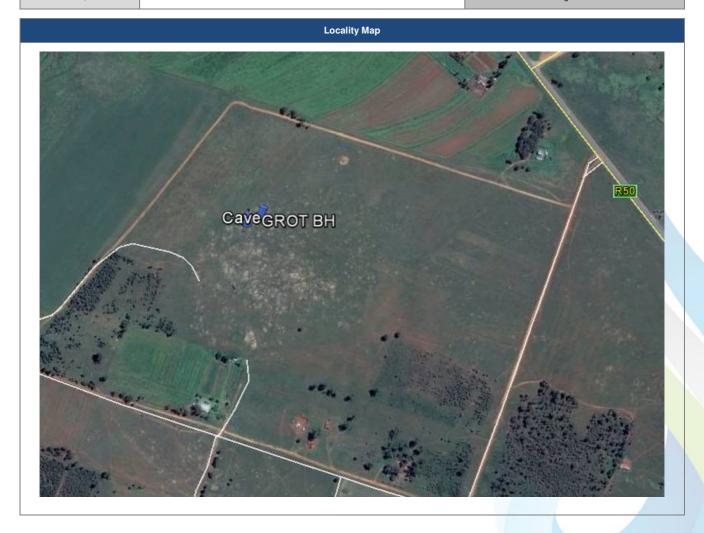
| | | Samplin | g Information | |
|-------------|-------------|--------------------|---------------|--|
| Sampler | Anton Botha | Date sampled | 12/04/2016 | |
| Sample type | Inorganic | Static water level | - | |
| uilding | | | | |
| | | | | |

| | Source Information | | | | | | | | | | | |
|-------------------------|--------------------|-----------------|------------------|----|-----------------------|---|-----------|--------|----------|------|------|---|
| Project | | Rietkol Project | | L | ocality number | | ВІ | 3H02B | | | | |
| Coordinates | | X-coordinate | 28.61318 | | Y-coordinate 26.11474 | | | Z-co | oordinat | е | 1580 | |
| Locality type | | Borehole | | D | ate drilled | | Uı | nknowr | 1 | | | |
| Borehole depth | 60 - 70 m | | Borehole diamete | r | 18 cm | | Collar he | ight | | 15 c | m | |
| Estimated yield per hou | ır | | | To | est certificate | | Ye | es | | - 1 | No | - |
| Reservoir & size | | | | | | | | | | | | |
| Liter | | Submersible | X Mono pump | - | Windmill | - | Hand pump | - | Other | | - | |

| | Current* and Future Use Information | | | | | | | | | | | | |
|------------------------|-------------------------------------|---|--------------------|---|----------|---|-------|---|--|--|--|--|--|
| In use | Yes | X | No | - | Other | - | | | | | | | |
| Current and future use | Irrigation | Х | Livestock watering | - | Domestic | Х | Other | - | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |



| | PROJECT DETAILS | | Rietkol Project | | |
|------------------|-----------------|----------------|--------------------------|------------|--|
| | | Persona | l Details | | |
| Physical address | | - | | | |
| Postal address | | - | | N. D. W. D | |
| District/Town | | DELMAS, 2210 | No Profile Picture Taken | | |
| Owner | | Joseph Coombie | | | |
| Contact person | | Joseph Coombie | | | |
| Cell | 083 408 2909 | Tel | - | | |
| Fax | | - | | | |
| E-mail | | - | | Signature | |



| | Source Information | | | | | | | | | | | | | |
|-------------------------|--------------------|--------------|--------------|-----------------|----------------------|-----------------------|-----|----------|-------------|----------|-------|------|----|---|
| Project Rietkol Project | | | t | | Lo | cality number | | | Gro | Grot | | | | |
| Coordinates | | X-coordinate | | 28.60554 | | Y-coordinate 26.09984 | | | Z-co | ordinate | 9 | 1571 | | |
| Locality type Cave / | | | rground lake | | | Date drilled | | | Unknown | | | | | |
| Borehole depth | - | | Bor | rehole diameter | Unknown Colla | | | Collai | ar height - | | | | | |
| Estimated yield per ho | ur | - | | | Test certificate | | | | | Yes | | | No | - |
| Reservoir & size | - | | | | | | | | | | | | | |
| Liter | | Submersible | - | Mono pump | - | Windmill | - H | land pur | пр | - | Other | | - | |

| | Current* and Future Use Information | | | | | | | | | | | |
|------------------------|-------------------------------------|---|--------------------|---|----------|---|-------|---|--|--|--|--|
| In use | Yes | - | No | - | Other | - | | | | | | |
| Current and future use | Irrigation | - | Livestock watering | - | Domestic | - | Other | - | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

| | | Samplir | ng Information | |
|------------------------|--------------------------|-----------------------------|----------------|--|
| Sampler | Deon / Machiel | Date sampled | 01/04/2016 | |
| Sample type | Inorganic | Static water level | - | |
| Short locality descrip | tion: Cave entrance on t | op of a hill, near old ruir | ıs | |
| Comments: Sample to | aken from inside cave | | | |

| | | | 400000 | Name of the second seco | TIME | | | | | |
|--------------------------|------|-----------------|-------------------|--|------------|-------------|----|------|--|--|
| | | | Sourc | e Information | | | | | | |
| Project | | Rietkol Project | | Locality number | | GrotBH | | | | |
| Coordinates | | X-coordinate | 28.60586 | Y-coordinate | 26.09969 | Z-coordinat | e | 1570 | | |
| Locality type | | Borehole | | Date drilled | | Unknown | | | | |
| Borehole depth | - | | Borehole diameter | Unknown | Collai | r height | - | | | |
| Estimated yield per hour | | - | | Test certificate | Yes | - 1 | No | - | | |
| Reservoir & size | None | | | | | | | | | |
| Liter | | Submersible | - Mono pump | X Windmill | - Hand pur | mp - Othe | r | - | | |
| | | | | | | | | | | |

| | Current* and Future Use Information | | | | | | | | | | | |
|------------------------|-------------------------------------|---|--------------------|---|----------|---|-------|---|--|--|--|--|
| In use | Yes | | No | Х | Other | - | | | | | | |
| Current and future use | Irrigation | - | Livestock watering | - | Domestic | - | Other | - | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

| | Sampling Information | | | | | | | | | | | | |
|-------------|----------------------------|--|------------|-----------------|--|--|--|--|--|--|--|--|--|
| Sampler | Werner Rossouw | Date sampled | 12/04/2016 | | | | | | | | | | |
| Sample type | | Static water level | 23.50m | J. Hard and the | | | | | | | | | |
| | otion: Old borehole at car | ve entrance. ump column still installed | | | | | | | | | | | |



address: 89 regency drive, R21 corpora e bark, centurion postal; p.o. box 905008, garsfontein, 0042 web: www.aquatico.co.za

office: 012 450 3800 • fax: 012 450 3851

| PROJECT DETAILS | Rietkol Project |
|-----------------|-----------------|

| | | Pers | onal Details | |
|------------------|----|--------------------------------------|----------------------------|--------------------------|
| Physical address | | DER EAST ORCHA tion 72, RIETKOL 2 | | |
| Postal address | РО | BOX 310, DELMAS | 5, 2210 | No Profile Picture Taken |
| District/Town | | DELMAS, 2210 | - No Profile Picture Taken | |
| Owner | Ма | ria Johanna Du Pl | essis | |
| Contact person | Ma | ria Johanna Du Pl | essis | |
| Cell | - | Tel | 0136679003 | |
| Fax | | - | | |
| E-mail | | - | Signature | |



| | Source Information | | | | | | | | | | | | | | |
|-------------------------|--------------------------|-------------|----|-----------------|------------------|---------------|----------|----------|-----|----------|----------|------|----|---|---|
| Project Rietkol Project | | | | | Lo | cality number | | | Sec | tion 7 | 1-71.6 (| (Bh6 |) | | |
| Coordinates | Coordinates X-coordinate | | | 28.59887 | , | Y-coordinate | -26 | 5.14014 | | Z-co | ordinate | Э | - | | |
| Locality type Borehole | | | | Date drilled | | | | Unknown | | | | | | | |
| Borehole depth | 63.55 m | | Bo | rehole diameter | | Unknown | Collar h | | | r height | | | | | |
| Estimated yield per ho | ur | - | | | Test certificate | | | | Yes | | | - | No | | - |
| Reservoir & size | - | | | | | | | | | | | | | | |
| Liter | | Submersible | X | Mono pump | - | Windmill | - | Hand pui | тр | - | Other | | | - | |

| | Current* and Future Use Information | | | | | | | | | | | |
|------------------------|-------------------------------------|---|--------------------|---|----------|---|-------|---|--|--|--|--|
| In use | Yes | - | No | Х | Other | - | | | | | | |
| Current and future use | Irrigation | - | Livestock watering | - | Domestic | - | Other | - | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

| Sampling Information | | | | | | | | | | | |
|-----------------------|--------------------------|----------------------|------------|--|--|--|--|--|--|--|--|
| Sampler | Carl / Coenie | Date sampled | 30/01/2017 | | | | | | | | |
| Sample type | Inorganic | Static water level | 63.55 m | | | | | | | | |
| hort locality descrip | tion: Borehole just outs | side section 72 gate | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |



| | Source Information | | | | | | | | | | | | | | |
|-------------------------|--------------------|-----------------------|-----|-----------------|------------------|--------------|------|----------|-------------|-------|---------|--------|-----|--|---|
| Project | | Rietkol Project | | | Locality number | | | | SE | CTION | 172 -72 | .5 (Bl | H5) | | |
| Coordinates | | X-coordinate 28.59616 | | | | Y-coordinate | -26. | 14140 | Z-coordinat | | |) | - | | |
| Locality type | Borehole | | | | Date drilled | | | | Unknown | | | | | | |
| Borehole depth | 100 m (e | st.) | Bor | rehole diameter | 200 mm Colla | | | Colla | r heig | ght | | 0 | | | |
| Estimated yield per hor | ur | 5000 l/hr (est.) | | | Test certificate | | | | Yes | 3 | | - | No | | - |
| Reservoir & size | | | | | | | | | | | | | | | |
| Liter | | Submersible | Х | Mono pump | - | Windmill | - | Hand pur | np | - | Other | | | | |

| | Current* and Future Use Information | | | | | | | | | | | | | |
|------------------------|-------------------------------------|---|--------------------|---|----------|---|-------|---|--|--|--|--|--|--|
| In use | Yes | Х | No | - | Other | - | | | | | | | | |
| Current and future use | Irrigation | Х | Livestock watering | Х | Domestic | - | Other | - | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

| | | Sampling | g Information | |
|-----------------------------|----------------------------|---------------------------------|------------------|--|
| Sampler Sample type | Carl / Coenie Inorganic | Date sampled Static water level | 30/01/2017 | |
| Short locality descriptence | tion: Borehole and tires | s surrounding for protection | on next to house | |



address: 89 regency drive, R21 corporare bank, centurion postal: p.o. box 905008, garsfontein, 0042 web: www.aquatico.co.za office: 012 450 3800 • fax: 012 450 3851

PROJECT DETAILS

Rietkol Project

| | | Pers | onal Details | |
|------------------|------------|---|--------------------------|--|
| Physical address | MODE | DER EAST ORCHA PORTIONS 63, 66 RIETKOL 237 IF | 6, | |
| Postal address | РО | BOX 675, SPRING | No Profile Picture Taken | |
| District/Town | | DELMAS, 2210 | No Profile Picture Taken | |
| Owner | Lo | uman Farm Prope | rty cc | |
| Contact person | Albe | rto Concalves Bor | rageiro | |
| Cell | 0824153236 | Tel | 0136679016 | |
| Fax | | - | | |
| E-mail | | | Signature | |



| | | | | Source | ce Ir | nformation | | | | | | | | | |
|------------------------|---------|----------------|----|-----------------|-------|-----------------|-----|----------|-------------|--------|---------|-----|----|---|---|
| Project | | Rietkol Projec | t | | Lo | ocality number | | | Sec | tion 6 | 3 – 63. | 1 | | | |
| Coordinates | | X-coordinate | | 28.59255 | | Y-coordinate | -26 | .13624 | Z-coordinat | | | е | - | | |
| Locality type | | Borehole | | | Da | ate drilled | | | Unk | nown | | | | | |
| Borehole depth | 37.40 m | | Во | rehole diameter | | 200 mm | | Colla | r heig | ht | | 0 1 | mm | | |
| Estimated yield per ho | ur | - | | | Te | est certificate | | | Yes | | | - | No | | - |
| Reservoir & size | Dam | | | | | | | | | | | | | | |
| Liter | | Submersible | X | Mono pump | - | Windmill | - | Hand pur | np | - | Othe | r | | - | |

| Current* and Future Use Information | | | | | | | | | | | | |
|-------------------------------------|------------|---|--------------------|---|----------|---|-------|---|--|--|--|--|
| In use | Yes | Х | No | - | Other | - | | | | | | |
| Current and future use | Irrigation | - | Livestock watering | - | Domestic | - | Other | - | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

| | | ng Information | | |
|------------------------|----------------------------|---------------------------------|-----------------------|--|
| Sampler Sample type | Carl / Coenie Inorganic | Date sampled Static water level | 31/01/2017 37.40 m | |
| Short locality descrip | tion: Borehole between | No Picture taken | | |
| Comments: | | | | |

| | | | | Source | e Ir | nformation | | | | | | | | |
|------------------------|------------------|-----------------|-----|----------------|-------------|-----------------|--------|-------------|-------------------|-----|-------|---|----|---|
| Project | | Rietkol Project | i | | Lo | ocality number | | | Section 63 – 63.2 | | | | | |
| Coordinates | | X-coordinate | | 28.59051 | | Y-coordinate | -26.13 | Z-coordinat | | | • | - | | |
| Locality type | ocality type Dam | | | | ate drilled | | | - | | | | | | |
| Borehole depth | - | | Bor | ehole diameter | | - | | Colla | r hei | ght | | - | | |
| Estimated yield per ho | ur | - | | | Te | est certificate | | | Yes | 3 | | - | No | - |
| Reservoir & size | - | | | | | | | | | | | | | |
| Liter | | Submersible | - | Mono pump | - | Windmill | - F | land pur | тр | - | Other | | - | |

| | Current* and Future Use Information | | | | | | | | | | | | | |
|------------------------|-------------------------------------|---|--------------------|---|----------|---|-------|---|--|--|--|--|--|--|
| In use | Yes | х | No | - | Other | - | | | | | | | | |
| Current and future use | Irrigation | Х | Livestock watering | - | Domestic | - | Other | - | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

| | | ng Information | | |
|------------------------|---------------------------|---------------------------------|------------|------------------|
| Sampler Sample type | Carl / Coenie | Date sampled Static water level | 31/01/2017 | |
| Short locality descrip | otion: Dam next to crop f | ields | | No Picture taken |
| Comments: Storage | water for irrigation | | | |

| | Source Information | | | | | | | | | | | | | | |
|------------------------|--------------------|-----------------|-----|----------------|-----------------|---------------|-----|----------|------------|--------|--------|---|----|---|---|
| Project | | Rietkol Project | | | Locality number | | | | Sec | tion 6 | 6-66.1 | | | | |
| Coordinates | | X-coordinate | | 28.59271 | Y | '-coordinate | -26 | .14003 | Z-coordina | | | • | | | |
| Locality type | ocality type Dam | | | Date drilled | | | | | - | | | | | | |
| Borehole depth | - | | Bor | ehole diameter | - Colla | | | | ar height | | | - | | | |
| Estimated yield per ho | ur | - | | | Tes | t certificate | | | Yes | | | - | No | | - |
| Reservoir & size | - | | | | | | | | | | | | | | |
| Liter | | Submersible | X | Mono pump | - | Windmill | - | Hand pur | np | - | Other | | | - | |

| Current* and Future Use Information | | | | | | | | | | | |
|-------------------------------------|------------|---|--------------------|---|----------|---|-------|---|--|--|--|
| In use | Yes | - | No | Х | Other | - | | | | | |
| Current and future use | Irrigation | - | Livestock watering | - | Domestic | - | Other | - | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

| | | Sampling | g Information |
|-------------------------|--------------------------|--------------------|---------------|
| Sampler | Carl / Coenie | Date sampled | 31/01/2017 |
| Sample type | inorganic | Static water level | 0 |
| Short locality descript | tion: Dam in center of l | ands | |
| | | | |
| | | | |
| Comments: | | | |
| | | | |

| Source Information | | | | | | | | | | | | | | | |
|--------------------------|---------|-----------------|-------------------|-----------|-----------------|-----------------|-----------|----------|-----------|-----------------|-------|---|----|---|---|
| Project | | Rietkol Project | | | Locality number | | | | | Section 66-66.2 | | | | | |
| Coordinates | | X-coordinate | | 28.59257 | | /-coordinate | -26.13995 | | | Z-coordinate | | - | | | |
| Locality type | | Borehole | | | Date drilled | | | Unknown | | | | | | | |
| Borehole depth | 92.41 m | | Borehole diameter | | | 260 mm Colla | | Collar | ar height | | | - | | | |
| Estimated yield per hour | | - | | | Tes | est certificate | | | Yes | 'es - | | | No | | - |
| Reservoir & size | Dam | | | | | | | | | | | | | | |
| Liter | | Submersible | Х | Mono pump | - | Windmill | - | Hand pur | np | - | Other | | | - | |

| Current* and Future Use Information | | | | | | | | | | | |
|-------------------------------------|------------|---|--------------------|---|----------|---|-------|---|--|--|--|
| In use | Yes | Х | No | - | Other | - | | | | | |
| Current and future use | Irrigation | Х | Livestock watering | - | Domestic | - | Other | - | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |



address: 89 regency drive, R21 corporate bank, centurion postal; p.o. box 905008, garsfontein, 0042

web: www.aquatico.co.za

office: 012 450 3800 • fax: 012 450 3851

| PROJECT DETAILS | Rietkol Project |
|-----------------|-----------------|

| | | Pers | onal Details | |
|------------------|-----------|------------------------------------|---------------------------|--|
| Physical address | | DER EAST ORCHA GELUK 234IR, 221 | | |
| Postal address | PO | BOX 98, DELMAS | No Profile Dieture Telcon | |
| District/Town | | DELMAS, 2210 | No Profile Picture Taken | |
| Owner | | Martinuzzi | | |
| Contact person | | Alex Martinuzz | i | |
| Cell | 837023288 | Tel | | |
| Fax | | - | | |
| E-mail | | verde@global.co. | Signature | |



| | | | | Source | e In | formation | | | | | | | | | |
|------------------------|----|-----------------------|----|-----------------|-----------------|----------------|------|----------|-----------------|------|---------|---|----|---|---|
| Project | | Rietkol Project | | | Locality number | | | | Section 15-15.1 | | | | | | |
| Coordinates | | X-coordinate 28.61934 | | | | Y-coordinate | -26. | 14734 | | Z-co | ordinat | Э | - | | |
| Locality type | | Borehole | | | Da | nte drilled | | | Unk | nown | | | | | |
| Borehole depth | - | | Bo | rehole diameter | | Unknown | | Colla | r heiç | ght | | - | | | |
| Estimated yield per ho | ur | - | | | Те | st certificate | | | Yes | ; | | - | No | | - |
| Reservoir & size | - | | | | | | | | | | | | | | |
| Liter | | Submersible | - | Mono pump | - | Windmill | - | Hand pur | тр | - | Other | | | - | |

| Current* and Future Use Information | | | | | | | | | |
|-------------------------------------|------------|---|--------------------|---|----------|---|-------|---|--|
| In use | Yes | - | No | Х | Other | - | | | |
| Current and future use | Irrigation | - | Livestock watering | - | Domestic | - | Other | - | |
| | | | | | | | | | |
| | | | | | | | | | |

| | | Sampling | g Information | |
|------------------------|----------------------------|---------------------------------|---------------|--|
| Sampler Sample type | Carl / Coenie Inorganic | Date sampled Static water level | 31/01/2017 | |
| Short locality descrip | tion: | | | |
| Comments: | | | | |

| | | | | Sourc | e In | formation | | | | | | | | | |
|-------------------------|-----------------------|-------------|-----|-----------------|--------------|----------------|--------|-----------------|--------|----------|-------|---|----|---|---|
| Project | Rietkol Project | | | Locality number | | | | Section 15-15.2 | | | | | | | |
| Coordinates | X-coordinate 28.61879 | | | , | Y-coordinate | -26 | .14940 | | Z-co | ordinate | Э | - | | | |
| Locality type | Borehole | | | | Date drilled | | | | | Unknown | | | | | |
| Borehole depth | - | | Bor | ehole diameter | | 200 mm | | Collai | r heig | ght | | - | | | |
| Estimated yield per hou | r | - | | | Te | st certificate | | | Yes | ; | | - | No | | - |
| Reservoir & size | JoJo Ta | Tanks | | | | | | | | | | | | | |
| Liter | | Submersible | Х | Mono pump | - | Windmill | - | Hand pur | np | - | Other | | | - | |

| Current* and Future Use Information | | | | | | | | | |
|-------------------------------------|------------|---|--------------------|---|----------|---|-------|---|--|
| In use | Yes | Х | No | - | Other | - | | | |
| Current and future use | Irrigation | - | Livestock watering | Х | Domestic | Х | Other | - | |
| | | | | | | | | | |
| | | | | | | | | | |

| | | Sampling | Information | |
|------------------------|--------------------------|--------------------|-------------|--|
| Sampler | Carl / Coenie | Date sampled | 31/01/2017 | AND THE PARTY OF T |
| Sample type | Inorganic | Static water level | 50 m | STATE OF THE PARTY |
| nort locality descript | Came Danahala aassila af | | | |

| Source Information | | | | | | | | | | | | | | | |
|-------------------------|-----------------------|-------------|-----|-----------------|--------------|-----------------|-----|-----------------|--------|------|---------|----|------|---|---|
| Project | Rietkol Project | | | Locality number | | | | Section 15-15.3 | | | | | | | |
| Coordinates | X-coordinate 28.60956 | | | 28.60956 | | Y-coordinate | -26 | .14877 | | Z-co | ordinat | е | - | | |
| Locality type | Borehole | | | | Da | ate drilled | | | Unk | nown | | | | | |
| Borehole depth | - | | Bor | rehole diameter | 200 mm Colla | | | Collai | r heig | ht | | 50 | 0 mm | 1 | |
| Estimated yield per hou | ır | - | | | Te | est certificate | | | Yes | | | - | No | | - |
| Reservoir & size | - | | | | | | | | | | | | | | |
| Liter | | Submersible | X | Mono pump | - | Windmill | - | Hand pur | np | - | Other | | | - | |

| Current* and Future Use Information | | | | | | | | | |
|-------------------------------------|------------|---|--------------------|---|----------|---|-------|---|--|
| In use | Yes | - | No | Х | Other | - | | | |
| Current and future use | Irrigation | - | Livestock watering | - | Domestic | - | Other | - | |
| | | | | | | | | | |
| | | | | | | | | | |

| | | Samplin | g Information | |
|------------------------|---------------------------|-------------------------|---------------|-------------------|
| Sampler | Carl / Coenie | Date sampled | 31/01/2017 | |
| Sample type | Inorganic | Static water level | 15.85 m | |
| Snort locality descrip | ition: Borenole next to r | oad across from Rossgro | building | No locality photo |
| Comments: | | | | |



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office: 012 450 3800 • fax: 012 450 3851

| PROJECT DETAILS | Rietkol Project |
|-----------------|-----------------|
| | |

| | | Pers | onal Details | |
|------------------|------------|-------------------------------------|-------------------------|---------------------------|
| Physical address | | DER EAST ORCHA tion 103, RIETKOL | | |
| Postal address | РО | BOX 828, DELMAS | 3, 2210 | No Profile Picture Taken |
| District/Town | | DELMAS, 2210 | | No Profile Picture Takeri |
| Owner | F | Rossgro Voere Pty | Ltd | |
| Contact person | | Chris Rossouw | | |
| Cell | 0832727776 | Tel | 0136651999 / 0136656800 | |
| Fax | | - | | |
| E-mail | | janice@rossgro.co. | za | Signature |



| | Source Information Source Information | | | | | | | | | | | | | | |
|------------------------|---------------------------------------|-------------------------|-----|----------------|--------------|----------------------|--------|--------|-----|---------|----------|----|---|---|--|
| Project | | Rietkol Project | | | Loc | ality number | | | Res | idenc | e 01 | | | | |
| Coordinates | | X-coordinate | | 28.61310 | Y | '-coordinate | -26 | .13716 | | Z-co | ordinate | 9 | - | | |
| Locality type | | Borehole | | | Date drilled | | | | | Unknown | | | | | |
| Borehole depth | - | | Bor | ehole diameter | | 200 mm | Collai | r heig | ht | | 0 m | m | | | |
| Estimated yield per ho | ur | - | | | Tes | t certificate | | | Yes | | - | No | | - | |
| Reservoir & size | - | | | | | | | | | | | | | | |
| Liter | | Submersible X Mono pump | | | | - Windmill - Hand pu | | | | - | Other | | | - | |

| | Current* and Future Use Information | | | | | | | | | | | | | | |
|------------------------|-------------------------------------|---|--------------------|---|----------|---|-------|---|--|--|--|--|--|--|--|
| In use | n use Yes - No X Other - | | | | | | | | | | | | | | |
| Current and future use | Irrigation | - | Livestock watering | - | Domestic | - | Other | - | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

| | Sampling Information | | | | | | | | | | | | | |
|------------------------|----------------------------|---------------------------------|----------------------|--|--|--|--|--|--|--|--|--|--|--|
| Sampler Sample type | Carl / Coenie Inorganic | Date sampled Static water level | 30/01/2017 8.85 m | | | | | | | | | | | |
| Short locality descrip | tion: Borehole under pl | ay tower at section 71 res | idence | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Comments: | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

| | | | Sourc | e Informa | tion | | | | | | | | | |
|-------------------------|-------------|-----------------|--------------|-------------------------------------|----------|--------|------------------|-------|--------|------|-----|----|--|---|
| Project | | Rietkol Project | | Locality | number | | | Res | idence | e 02 | | | | |
| Coordinates | | X-coordinate | 28.61264 | Y-coordinate -26.13763 Z-coordinate | | | | |) | - | | | | |
| Locality type | | Borehole | Date drilled | | | | Unk | nown | | | | | | |
| Borehole depth | N/A | | 200 | nm | | Collai | ar height 100 mm | | | | | | | |
| Estimated yield per hor | ur | | | Test cer | ificate | | | Yes | | | - 1 | No | | - |
| Reservoir & size | N/A | | | | | | | | | | | | | |
| Liter | X Mono pump | - Wi | ndmill | - | Hand pur | тр | I - I | Other | | | - | | | |
| | | | | | | | | | | | | | | |

| | Current* and Future Use Information | | | | | | | | | | | | | |
|------------------------|-------------------------------------|---|--------------------|---|----------|---|-------|---|--|--|--|--|--|--|
| In use | Yes | Х | No | - | Other | - | | | | | | | | |
| Current and future use | Irrigation | Х | Livestock watering | Х | Domestic | Х | Other | - | | | | | | |
| | A | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

| | | Samplin | g Information | |
|------------------------|----------------------------|---------------------------------|---------------|--|
| Sampler Sample type | Carl / Coenie Inorganic | Date sampled Static water level | 30/01/2017 | |
| Short locality descrip | otion: Borehole in pump | house in front of residen | ce | |
| Comments: | | | | |

| | Source Information | | | | | | | | | | | | | | |
|-------------------------|--------------------|-------------------------|-----|----------------|--------------|----------------|-----|----------|--------|-------|----------|-------|-------|-----|---|
| Project | | Rietkol Project | | | Loc | cality number | | | DAN | / SEC | CTION | 71 (2 | 37/1) | | |
| Coordinates | | X-coordinate | | 28.60615 | ١ | /-coordinate | -26 | 3.14506 | | Z-co | ordinate | Э | - | | |
| Locality type | | DAM | | | Date drilled | | | | | nown | | | | | |
| Borehole depth | - | | Bor | ehole diameter | - Colla | | | | r heig | ht | | - | | | |
| Estimated yield per hou | ır | - | | | Tes | st certificate | | | Yes | | | - | No | | - |
| Reservoir & size | DAM | 1 | | | | | | | | | | | | | |
| Liter | | Submersible - Mono pump | | | | Windmill | - | Hand pui | mp | - | Other | | | DAM | |

| | Current* and Future Use Information | | | | | | | | | | | | | |
|---------------------------|-------------------------------------|---|--------------------|---|----------|---|-------|---|--|--|--|--|--|--|
| In use Yes X No - Other - | | | | | | | | | | | | | | |
| Current and future use | Irrigation | х | Livestock watering | - | Domestic | - | Other | - | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

| | | Samplin | g Information | |
|------------------------|-----------------------|----------------------------|---------------|---|
| Sampler | Carl / Coenie | Date sampled | 30/01/2017 | |
| Sample type | Inorganic | Static water level | - | 1 |
| Short locality descrip | tion: Ground dam near | plant, used for irrigation | | |
| Comments: Also part | of section 237 | | | |
| | | | | |

| | | 4 | | 1 | | | | | | | | | |
|--------------------------|-----------------|-----|----------------|-------|---------------|-----|----------|---------|------|----------|-------|------|---|
| | | | Sourc | e Inf | ormation | | | | | | | | |
| Project | Rietkol Project | | | Loc | ality number | | | GEL | UK S | ECTIO | N 2 (| 2.1) | |
| Coordinates | X-coordinate | | 28.59647 | Y | -coordinate | -26 | 3.13216 | | Z-co | ordinate | е | - | |
| Locality type | Borehole | 4 | | Dat | e drilled | | | Unkr | nown | | | | |
| Borehole depth - | | Bor | ehole diameter | | 160 mm | | Collar | r heigl | ht | | 0 | | |
| Estimated yield per hour | 60 l/min (est) | | * | Tes | t certificate | | | Yes | | | - | No | - |
| Reservoir & size | | | | | | | | | | | | | |
| Liter | Submersible | X | Mono pump | - | Windmill | - | Hand pun | mp | - | Other | | | |

| | Current* and Future Use Information | | | | | | | | | | | | | |
|------------------------|-------------------------------------|---|--------------------|---|----------|---|-------|---|--|--|--|--|--|--|
| n use Yes X No - Other | | | | | | | | | | | | | | |
| Current and future use | Irrigation | - | Livestock watering | Х | Domestic | Х | Other | - | | | | | | |
| Chicken farming | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

| | Sampling Information | | | | | | | | | | | |
|------------------------|----------------------------|---------------------------------|-----------------------|-------------------|--|--|--|--|--|--|--|--|
| Sampler Sample type | Carl / Coenie Inorganic | Date sampled Static water level | 30/01/2017 22.14 m | | | | | | | | | |
| Short locality descrip | tion: Borehole next to ol | | | | | | | | | | | |
| | | | | No locality photo | | | | | | | | |
| Comments: | | | | | | | | | | | | |

| | Source Information | | | | | | | | | | | | | | |
|-------------------------|--------------------|--------------|-------------------|-----------|---------------|---------------------------------|------|----------|--------|--------------|--------|-----|----|---|---|
| Project Rietkol Project | | | t | | cality number | ity number Section 71 – 71.4 (E | | | | | 4 (BH4 |) | | | |
| Coordinates | | X-coordinate | | 28.60976 | | Y-coordinate | -26. | 14612 | | Z-coordinate | | | - | | |
| Locality type Borehole | | | | | Da | ate drilled | | | Unł | known | | | | | |
| Borehole depth | N/A | | Borehole diameter | | | 300 mm | | Colla | r heig | ght | | 500 | mm | | |
| Estimated yield per ho | ur | - | | | Te | est certificate | | | Yes | 3 | | - 1 | No | | - |
| Reservoir & size | N/A | | | | | | | | | | | | | | |
| Liter | | Submersible | X | Mono pump | - | Windmill | - | Hand pur | mp | - | Other | | | - | |

| Current* and Future Use Information | | | | | | | | | | | |
|-------------------------------------|------------|---|--------------------|---|----------|---|-------|---|--|--|--|
| In use | Yes | Х | No | - | Other | - | | | | | |
| Current and future use | Irrigation | Х | Livestock watering | - | Domestic | Х | Other | - | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

| Sampling Information | | | | | | | | | | | | |
|------------------------|----------------------------|---------------------------------|--------------|--|--|--|--|--|--|--|--|--|
| Sampler Sample type | Carl / Coenie Inorganic | Date sampled Static water level | 30/01/2017 | | | | | | | | | |
| Short locality descrip | otion: Large BH south of | the plant. (Small building | g enclosure) | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

| Source Information | | | | | | | | | | | |
|-------------------------|-------|-----------------|------------------------------------|------------------|-------------|-----------------|------|---|--|--|--|
| Project | | Rietkol Project | | Locality number | | Section 31-31.1 | | | | | |
| Coordinates | | X-coordinate | te 28.60577 Y-coordinate -26.15631 | | Z-coordinat | е | - | | | | |
| Locality type | | Borehole | | Date drilled | Unknown | | | | | | |
| Borehole depth | 120 m | | Borehole diameter | 200 mm | r height | 0 mm | | | | | |
| Estimated yield per hou | ır | 110 000 l/hr | | Test certificate | | Yes | - No | - | | | |
| Reservoir & size | - | | | | | | | | | | |
| Liter Sub | | Submersible | X Mono pump | - Windmill | - Hand pu | mp - Other | r | - | | | |

| Current* and Future Use Information | | | | | | | | | | | | |
|-------------------------------------|------------|---|--------------------|---|----------|---|-------|---|--|--|--|--|
| In use | Yes | Х | No | - | Other | - | | | | | | |
| Current and future use | Irrigation | Х | Livestock watering | - | Domestic | - | Other | - | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

| Sampling Information | | | | | | | | | | | | |
|------------------------|----------------------------|---------------------------------|-----------------------|--|--|--|--|--|--|--|--|--|
| Sampler Sample type | Carl / Coenie inorganic | Date sampled Static water level | 30/01/2017 54.65 m | | | | | | | | | |
| Short locality descrip | otion: | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Comments: | | | | | | | | | | | | |
| | | | | | | | | | | | | |

| | Source Information | | | | | | | | | | | | | | |
|--------------------------|--------------------|--------------|-------------------|-----------|----|----------------|-----|----------|-----------------|--------------|-------|-----|----|---|---|
| Project Rietkol Project | | | | | Lo | cality number | | | Section 31-31.2 | | | | | | |
| Coordinates | | X-coordinate | | 28.60762 | , | Y-coordinate | -26 | .15184 | | Z-coordinate | | | | | |
| Locality type Boreho | | | | | | Date drilled | | | Unknown | | | | | | |
| Borehole depth | 68 m | | Borehole diameter | | | 200 mm | | Colla | r heig | ht | | 0 m | m | | |
| Estimated yield per hou | ır | - | | | Te | st certificate | | | Yes | | | - | No | | - |
| Reservoir & size | Dam | m | | | | | | | | | | | | | |
| Liter Submersible | | Submersible | X | Mono pump | - | Windmill | - | Hand pur | mp | - | Other | | | - | |

| Current* and Future Use Information | | | | | | | | | | | | |
|-------------------------------------|------------|---|--------------------|---|----------|---|-------|---|--|--|--|--|
| In use | Yes | Х | No | - | Other | - | | | | | | |
| Current and future use | Irrigation | Х | Livestock watering | - | Domestic | - | Other | - | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

| | | Sampling | g Information | | VESTELL. |
|------------------------|---------------------|--------------------|---------------|--|-------------|
| Sampler | Carl / Coenie | Date sampled | 31/01/2017 | | |
| Sample type | - | Static water level | 48.29 m | The state of the s | A STATE OF |
| Short locality descrip | ntion: | | | | 113 |
| iort rocumty descrip | | | | A VIII | _ 1.1 |
| | | | | | 1 4 6 |
| | | | | | 对年3年 |
| Comments: 15 Kw m | otor fitted to pump | | | | 从 入外 |
| | | | | | + 700 |
| | | | | | |
| | | | | | |
| | | Carrea | Information | | |

| Source Information | | | | | | | | | | | | | | |
|------------------------|------|-----------------|-------------------|--------------|----------------|-----------|----------|------------|--------|---------|-------|----|---|---|
| Project | | Rietkol Project | | Lo | cality number | | | Sec | tion 3 | 1-31.3 | (BH3) | | | |
| Coordinates | | X-coordinate | 28.60813 | Y-coordinate | | -26.15101 | | Z-coordina | | ordinat | е | - | | |
| Locality type | | Borehole | | Date drilled | | | | Unknown | | | | | | |
| Borehole depth | 64 m | | Borehole diameter | | 200 mm | | Collar | r height | | | 200 | mm | | |
| Estimated yield per ho | ur | | | Te | st certificate | | | Yes | | | - | No | | - |
| Reservoir & size | N/A | | | | | | | | | | | | | |
| Liter | | Submersible | X Mono pump | - | Windmill | - | Hand pun | np | - | Other | • | | - | |

| Current* and Future Use Information | | | | | | | | | | | | |
|-------------------------------------|------------|---|--------------------|---|----------|---|-------|---|--|--|--|--|
| In use | Yes | Х | No | - | Other | - | | | | | | |
| Current and future use | Irrigation | - | Livestock watering | Х | Domestic | - | Other | - | | | | |
| | | | | | | | | | | | | |
| | A | | | | | | | | | | | |

| | P | Camplin | u Information | |
|-----------------------|--------------------------|-----------------------------|----------------|--|
| | | Sampling | g Information | |
| Sampler | Carl / Coenie | Date sampled | 30/01/2017 | |
| Sample type | Inorganic | Static water level | 47.98 m | The state of the s |
| hant lacality decario | | | | |
| mort locality descrip | tion: BH3 next to road a | at entrance next to transfo | rmer from road | |
| mort locality descrip | tion: BH3 next to road a | at entrance next to transfo | rmer from road | |
| nort locality descrip | tion: BH3 next to road a | at entrance next to transfo | rmer from road | |
| Comments: 9AMP 40 | | at entrance next to transfo | rmer from road | |

| | Source Information | | | | | | | | | | | | | | |
|-----------------------------|---------------------|-----------------------|-----|-----------------|------------------|----------------------------------|-----|----------|------------|--------------|-------|-----|----|---|---|
| Project | ect Rietkol Project | | | | | Locality number Section 24-24.13 | | | | | | | | | |
| Coordinates | | X-coordinate 28.62518 | | | | /-coordinate | -26 | 3.14590 | | Z-coordinate | | | | | |
| Locality type | | Borehole | | | Dat | te drilled | | | Unk | nown | | | | | |
| Borehole depth | - | | Boi | rehole diameter | 200 mm Colla | | | | lar height | | | 0 m | | | |
| Estimated yield per hou | ır | - | | | Test certificate | | | | Yes | | | | No | | - |
| Reservoir & size JoJo tanks | | | | | | | | | | | | | | | |
| Liter | Submersible X Mono | | | Mono pump | l - | Windmill | - | Hand pur | np | - | Other | | | - | |

| Current* and Future Use Information | | | | | | | | | | | | |
|-------------------------------------|------------|---|--------------------|---|----------|---|-------|---|--|--|--|--|
| In use Yes X No - Other - | | | | | | | | | | | | |
| Current and future use | Irrigation | - | Livestock watering | - | Domestic | Х | Other | - | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

| | | Samplin | g Information | VI VIII VIII VIII VIII VIII VIII VIII |
|------------------------|----------------------------|---------------------------------|--------------------|---------------------------------------|
| Sampler Sample type | Carl / Coenie Inorganic | Date sampled Static water level | 31/01/2017 49 m | |
| | · | of Rossouw Boerdery hea | | No locality photo |
| Comments: | | | | |
| | | | | |

| | | | Sourc | e Inf | ormation | | | | | | | | | |
|-------------------------|----------------------|-----------------|-------------------|------------------------|----------------|---|----------------|--------------------|------|-------|---|----|---|---|
| Project | | Rietkol Project | | Loc | cality number | | | Section 24 – 24.03 | | | | | | |
| Coordinates | | X-coordinate | 28.62339 | Y-coordinate -26.12728 | | | Z-coordinate - | | | | | | | |
| Locality type | | Borehole | | Date drilled | | | | Unkı | nown | | | | | |
| Borehole depth | - | E | Borehole diameter | | - | | Collar | heig | ht | | - | | | |
| Estimated yield per hou | r | - | | Tes | st certificate | | | Yes | | | - | No | | - |
| Reservoir & size | Reservoir & size N/A | | | | | | | | | | | | | |
| Liter | | Submersible | X Mono pump | - | Windmill | - | Hand pun | np | - | Other | | | - | |

| | | 48 | | | | | | | | | | |
|-------------------------------------|------------|-----|--------------------|---|------------|----------|-------|--|--|--|--|--|
| Current* and Future Use Information | | | | | | | | | | | | |
| In use | Yes | - 1 | No | Х | Other | - | | | | | | |
| Current and future use | Irrigation | | Livestock watering | _ | Domestic | <u> </u> | Other | | | | | |
| | ga.io.i | | | | 2011100110 | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

| Sampling Information | | | | | | | | | | | | |
|------------------------|------------------|--------------------|------------|--|--|--|--|--|--|--|--|--|
| Sampler | Carl / Coenie | Date sampled | 30/01/2017 | | | | | | | | | |
| Sample type | Sample not taken | Static water level | - | Control of the Contro | | | | | | | | |
| Short locality descrip | otion: | | | | | | | | | | | |
| Comments: Borehole | e blocked | | | | | | | | | | | |

| | Source Information | | | | | | | | | | | | | | |
|-------------------------|-------------------------------|-----------------------|-----|----------------|----------------------|---------------|-----|----------|--------------|--------|---------|---|----|---|---|
| Project | Rietkol Project | | | | Loc | cality number | | | Sec | tion 2 | 4 -24.2 | | | | |
| Coordinates | | X-coordinate 28.62187 | | | | /-coordinate | -26 | .12685 | Z-coordinate | | | | | | |
| Locality type | Borehole | | | | Dat | te drilled | | | Unk | nown | | | | | |
| Borehole depth | 108 m | | Bor | ehole diameter | Unknown Colla | | | | ar height | | | - | | | |
| Estimated yield per hou | ır | - | | | Test certificate | | | | Yes | | | - | No | | - |
| Reservoir & size | eservoir & size Dam and tanks | | | | | | | | | | | | | | |
| Liter | Liter Submersible - Mo | | | Mono pump | - | Windmill | - | Hand pur | пр | - | Other | | | - | |

| Current* and Future Use Information | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|--|
| In use Yes X No - Other - | | | | | | | | | | | | |
| Current and future use Irrigation X Livestock watering - Domestic X Other - | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

| Sampler | | | | |
|---------------------------|---------------|--------------------|------------|-----------|
| | Carl / Coenie | Date sampled | 31/01/2017 | |
| Sample type | - | Static water level | - 4 | |
| Chart lacality decariatio | | | | |
| Short locality descriptio | on: | | | |
| | | | | |
| | | | | |
| Comments: No sample t | taken | | | |
| • | | | | 决位 |
| | | | | |
| | | | | |

| | | | Source | e In | formation | | | | | | | | | |
|-------------------------|---------|-----------------------|-------------|------|----------------|-------|----------|-----------------|------|-------|----|----|---|---|
| Project | | Rietkol Project | | Lo | cality number | | | Section 24-24.4 | | | | | | |
| Coordinates | | X-coordinate 28.62404 | | | Y-coordinate | -26.1 | 2729 | Z-coordinate | | | | - | | |
| Locality type | | Borehole | | | ite drilled | | | Unk | nown | | | | | |
| Borehole depth | 52.30 m | Borehole diameter | | | 200 mm Colla | | | ar height 0 mm | | | ım | | | |
| Estimated yield per hor | ur | | | Те | st certificate | | | Yes | | | - | No | | - |
| Reservoir & size | Dam | | | | | | | | | | | | | |
| Liter | | Submersible | X Mono pump | - | Windmill | - H | Hand pum | np | - | Other | | | - | |

| - Valentia | Current* and Future Use Information | | | | | | | | | | | | |
|---------------------------|-------------------------------------|--|--|--|--|--|--|---|--|--|--|--|--|
| In use Yes X No - Other - | | | | | | | | | | | | | |
| Current and future use | Current and future use | | | | | | | | | | | | |
| | A | | | | | | | - | | | | | |
| | A | | | | | | | | | | | | |

| Sampling Information | | | | | | | | | | | |
|--------------------------|--------------------------|--------------------------|-------------------|---|--|--|--|--|--|--|--|
| Sampler | Carl / Coenie | Date sampled | 31/01/2017 | TO THE REAL PROPERTY. | | | | | | | |
| Sample type | | Static water level | 52.30 m | MARK THE PROPERTY OF THE PARTY | | | | | | | |
| Short locality descrip | tion: | | | | | | | | | | |
| Comments: No samp gained | le taken, pump was off a | t time of sampling and n | o access could be | | | | | | | | |

| Source Information | | | | | | | | | | | | | | | |
|-------------------------|------------------------|--------------|----------|-----------------|------------------|-----------|---------------|----------|-------|---------|--------|---|----|---|---|
| Project Rietkol Project | | | | Locality number | | | | Sect | ion 2 | 4 – 24. | 5 | | | | |
| Coordinates | | X-coordinate | 28.63612 | Y | '-coordinate | -26 | .14266 | | Z-co | ordinat | е | ŀ | | | |
| Locality type Borehole | | | | | Dat | e drilled | | | 2008 | 3 (est | .) | | | | |
| Borehole depth | 95 m (es | t.) | Bor | ehole diameter | | 300 mm | Collar height | | | | 600 mm | | | | |
| Estimated yield per ho | ur | - | | | Test certificate | | | | Yes | | | - | No | | - |
| Reservoir & size TANKS | | | | | | | | | | | | | | | |
| Liter | Submersible X Mono pum | | | Mono pump | - | Windmill | - | Hand pur | mp | - | Other | | | - | |

| Current* and Future Use Information | | | | | | | | | | | | |
|-------------------------------------|------------|---|--------------------|---|----------|---|-------|---|--|--|--|--|
| In use Yes X No X Other - | | | | | | | | | | | | |
| Current and future use | Irrigation | Х | Livestock watering | - | Domestic | Х | Other | - | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

| | | Commin | u Information | | | | | | | | | |
|-----------------------|-------------------|--------------------|---------------|--|--|--|--|--|--|--|--|--|
| Sampling Information | | | | | | | | | | | | |
| Sampler | Carl / Coenie | Date sampled | 30/01/2017 | | | | | | | | | |
| Sample type | Inorganic | Static water level | 74.5m | | | | | | | | | |
| | | | | ALL ALL AND AL | | | | | | | | |
| nort locality descrip | tion: 22 kw motor | | | 1 | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| omments: | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

| Source Information | | | | | | | | | | | | | | | |
|---|---|----------|----------|----------------|-----|---------------|--|--------|--------|------|---|----|------|---|---|
| Project Rietkol Project Locality number Section 24 – 24.6 | | | | | | | | | | | | | | | |
| Coordinates | Coordinates X-coordinate 28.63707 Y-coordinate -26.14389 Z-coordinate - | | | | | | | | | | | | | | |
| Locality type | | Borehole | | | Dat | e drilled | | | Unk | nown | ı | | | | |
| Borehole depth | | | Bor | ehole diameter | | 300 mm | | Collai | r heig | ght | | 50 | 0 mm | ı | |
| Estimated yield per hour | r | | — | | Tes | t certificate | | | Yes | ; | | - | No | | - |
| Reservoir & size | N/A | | | | | | | | | | | | | | |
| Liter Submersible X Mono pump - Windmill - Hand pump - Other - | | | | | | | | | | | | | | | |

| Current* and Future Use Information | | | | | | | | | | | | | |
|-------------------------------------|------------|---|--------------------|---|----------|---|-------|---|--|--|--|--|--|
| In use | Yes | - | No | Х | Other | - | | | | | | | |
| Current and future use | Irrigation | - | Livestock watering | - | Domestic | - | Other | - | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| | - designation of the second of | | | | | | | | | | | |
|------------------------|--|--------------------|------------|--|--|--|--|--|--|--|--|--|
| Sampling Information | | | | | | | | | | | | |
| Sampler | Carl / Coenie | Date sampled | 30/01/2017 | | | | | | | | | |
| Sample type | Inorganic | Static water level | 92 m | | | | | | | | | |
| Short locality descrip | ntion: Borehole on the b | | | | | | | | | | | |
| Comments: Borehole | not in use | | | | | | | | | | | |

| | Source Information | | | | | | | | | | | | | | |
|-------------------------|--------------------|-------------|----|-----------------|------------------|-----------------|-------|-------------------|--------|------|---------|-----|----|---|---|
| Project Rietkol Project | | | t | Locality number | | | | Section 24 – 24.7 | | | | | | | |
| Coordinates | s X-coordinate | | | 28.63584 | | Y-coordinate | -26.1 | 4271 | | Z-co | ordinat | е | - | | |
| Locality type Borehole | | | | | Da | ate drilled | | | Unk | nown | | | | | |
| Borehole depth | 202 m | | Во | rehole diameter | 220-260 mm Colla | | | Colla | r heig | jht | | 350 | mm | | |
| Estimated yield per hou | ır | - | | | Te | est certificate | | | Yes | ; | | - | No | | - |
| Reservoir & size | N/A | | | | | | | | | | | | | | |
| Liter | | Submersible | X | Mono pump | - | Windmill | - | Hand pur | пр | - | Other | | | - | |

| Current* and Future Use Information | | | | | | | | | | | | |
|-------------------------------------|------------|---|--------------------|---|----------|---|-------|---|--|--|--|--|
| In use Yes - No X Other - | | | | | | | | | | | | |
| Current and future use | Irrigation | - | Livestock watering | - | Domestic | - | Other | - | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

| Sampling Information | | | | | | | | | | | | |
|------------------------|----------------------------|---------------------------------|-----------------------|--|--|--|--|--|--|--|--|--|
| Sampler Sample type | Carl / Coenie Inorganic | Date sampled Static water level | 30/01/2017 83.30 m | | | | | | | | | |
| hort locality descrip | tion: Newly drilled bore | hole | | | | | | | | | | |
| | | | | | | | | | | | | |
| omments: | | | | | | | | | | | | |
| | | | | | | | | | | | | |

| Source Information | | | | | | | | | | | |
|--------------------------|-----------------|------------------|------------------|------------|------------------|--------|--|--|--|--|--|
| Project | Rietkol Project | | Locality number | | Section 24 – 24. | 8 | | | | | |
| Coordinates | X-coordinate | 28.63618 | Y-coordinate | -26.14373 | Z-coordinat | te - | | | | | |
| Locality type | Borehole | | Date drilled | | Unknown | | | | | | |
| Borehole depth - | В | orehole diameter | 200 mm | Colla | r height | - | | | | | |
| Estimated yield per hour | - | | Test certificate | | Yes | - No - | | | | | |
| Reservoir & size N/A | | | | | | | | | | | |
| Liter | Submersible | X Mono pump | - Windmill | - Hand pui | mp - Other | r - | | | | | |

| Current* and Future Use Information | | | | | | | | | | | | |
|-------------------------------------|------------|---|--------------------|---|----------|---|-------|---|--|--|--|--|
| In use Yes - No X Other - | | | | | | | | | | | | |
| Current and future use | Irrigation | - | Livestock watering | - | Domestic | - | Other | - | | | | |
| | | | | | | | | | | | | |
| | 0 | | | | | | | | | | | |

| | | Samplin | g Information | |
|------------------------|------------------------|---------------------------------|--------------------|--|
| Sampler Sample type | Carl / Coenie | Date sampled Static water level | 30/01/2017 59 m | |
| Short locality descrip | otion: | | | |
| Comments: Borehole | not in use. Not sample | d, closed | | |

| | | | | Sourc | e Inf | ormation | | | | | | | | | |
|------------------------|----------|--------------|-------------------|-----------------|------------------|--------------|-----|----------|---------|--------------|----------|-----|----|---|---|
| Project Rietkol Proje | | | : | Locality number | | | | | Sec | tion 2 | 4 – 24.9 |) | | | |
| Coordinates | | X-coordinate | | 28.63633 | Υ | /-coordinate | -26 | 5.13684 | | Z-coordinate | | | - | | |
| Locality type Borehole | | | | Date drilled | | | | | Unknown | | | | | | |
| Borehole depth | 200 m (e | st.) | Borehole diameter | | | 260 mm | | Colla | r heig | ht | | 150 | mm | | |
| Estimated yield per h | our | - | | | Test certificate | | | | Yes | | | - 1 | No | | - |
| Reservoir & size | Dam | | | | | | | | | | | | | | |
| Liter | | Submersible | | Mono pump | I - | Windmill | - | Hand pur | тр | - | Other | | | - | |

| Current* and Future Use Information | | | | | | | | | | | | |
|-------------------------------------|------------|---|--------------------|---|----------|-----------|--|--|--|--|--|--|
| In use Yes X No - Other - | | | | | | | | | | | | |
| Current and future use | Irrigation | Х | Livestock watering | - | Domestic | - Other - | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

| Sampling Information | | | | | | | | | | |
|-------------------------|-------------------------|-----------------------------|-------------|--|--|--|--|--|--|--|
| Sampler | Carl / Coenie | Date sampled | 30/01/2017 | The state of the s | | | | | | |
| Sample type | Inorganic | Static water level | - | | | | | | | |
| Short locality descript | tion: Double drilled bo | reholes next to road and po | ower line. | | | | | | | |
| | | | | | | | | | | |
| | | 0 | Information | | | | | | | |

| | | | | Total | | | | | | | | |
|-------------------------|----|-----------------|-------------------|-------|---------------|-------------------|-----------|--------------|----------|----|-------|---|
| | | | Sourc | e Inf | ormation | | | | | | | |
| Project | | Rietkol Project | | Loc | ality number | | S | ection | 24 – 24. | 10 | | |
| Coordinates | | X-coordinate | 28.63650 | Y | -coordinate | -26 | 3.13503 | Z-coordinate | | | - | |
| Locality type | | DAM | AM Date dril | | | ate drilled Unkno | | | 'n | | | |
| Borehole depth | - | E | Borehole diameter | | - | | Collar he | lar height | | | | |
| Estimated yield per hou | ır | | | Tes | t certificate | | Ye | es | | - | No | - |
| Reservoir & size DAM | | | | | | | | | | | | |
| Liter | | Submersible | - Mono pump | - | Windmill | - | Hand pump | - | Othe | r | DAM10 |) |

| Current* and Future Use Information | | | | | | | | | | | | |
|-------------------------------------|------------|---|--------------------|---|----------|---|-------|---|--|--|--|--|
| In use | Yes | Х | No | - | Other | - | | | | | | |
| Current and future use | Irrigation | Х | Livestock watering | - | Domestic | - | Other | - | | | | |
| | A | | | | | | | | | | | |
| | | | | | | | | | | | | |

| | g Information | | | |
|------------------------|-----------------------|--------------------|------------|-----------|
| Sampler | Carl / Coenie | Date sampled | 30/01/2017 | |
| Sample type | Inorganic | Static water level | 0 | 1000 |
| Short locality descrip | tion: Dam at pumphous | е | | in in the |
| | | | | |
| | | | | |

| | | | | Source | e Inf | ormation | | | | | | | | | |
|-------------------------|------------------|-----------------|-------------------|--------------|-------|----------------|------|----------|---------|--------------|----------|----|----|-------|---|
| Project | | Rietkol Project | t | | Loc | cality number | | | Sect | ion 2 | 4 – 24.1 | 11 | | | |
| Coordinates | | X-coordinate | | 28.63667 | ١ | /-coordinate | -26. | 13357 | | Z-coordinate | | | - | | |
| Locality type | by type Borehole | | | Date drilled | | | | | Unknown | | | | | | |
| Borehole depth | - | | Borehole diameter | | | 260 mm | | Collar | heigl | ht | | - | | | |
| Estimated yield per hou | r | - | | | Tes | st certificate | | | Yes | | | - | No | | - |
| Reservoir & size | DAM10 | | | | | | | | | | | | | | |
| Liter | | Submersible | X | Mono pump | - | Windmill | - | Hand pun | np | - | Other | | | DAM10 | |

| Current* and Future Use Information | | | | | | | | | | | | |
|-------------------------------------|------------|---|--------------------|---|----------|-----------|--|--|--|--|--|--|
| In use Yes - No X Other - | | | | | | | | | | | | |
| Current and future use | Irrigation | - | Livestock watering | - | Domestic | - Other - | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

| | | Sampling | g Information | NIII. |
|------------------------|---------------|--------------------|---------------|--|
| Sampler | Carl / Coenie | Date sampled | 30/01/2017 | and the state of t |
| Sample type | Inorganic | Static water level | - | |
| Short locality descrip | otion: | | | |
| | | | | |
| | | | | |
| Comments: | | | | |
| | | | | |
| | | | | |

| | | | Sour | ce Information | | | | | | |
|--------------------------|-------|-----------------|--------------------------|------------------|----------|------------------------|---------|---|----|---|
| Project | | Rietkol Project | | Locality numb | Sec | tion 24 – 24. | 12 | | | |
| Coordinates | | X-coordinate | 28.63686 | Y-coordinate | -26.1331 | -26.13310 Z-coordinate | | е | - | |
| Locality type | | Borehole | | Date drilled | | Unk | nown | | | |
| Borehole depth | - | | Borehole diameter 260 mm | | | Collar heig | ıht | - | | |
| Estimated yield per hour | r | - | | Test certificate |) | Yes | i | - | No | - |
| Reservoir & size | DAM10 | | | | | | | | | |
| Liter | | Submersible | X Mono pump | - Windmill | - Har | nd pump | - Other | r | - | |
| | | | | | | | | | | |

| Current* and Future Use Information | | | | | | | | | | | | |
|-------------------------------------|-------------------------|---|--------------------|---|----------|---|-------|---|--|--|--|--|
| In use | In use Yes No X Other - | | | | | | | | | | | |
| Current and future use | Irrigation | - | Livestock watering | - | Domestic | - | Other | - | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

| Sampling Information | | | | | | | | | | |
|-----------------------|---------------|--------------------|------------|-----|--|--|--|--|--|--|
| Sampler | Carl / Coenie | Date sampled | 30/01/2017 | 4.4 | | | | | | |
| Sample type | Inorganic | Static water level | - | | | | | | | |
| Short locality descri | ption: | | | | | | | | | |
| Comments: | | | | | | | | | | |

| | Source Information | | | | | | | | | | | | | | |
|------------------------|------------------------------------|----------------|----|-----------------|-----------------|----------------|---|----------|------------------------|---|-------|---|----|--|---|
| Project | | Rietkol Projec | t | | Locality number | | | | GELUK SECTION 24 -24.1 | | | | | | |
| Coordinates | ates X-coordinate - Y-coordinate - | | | | | Z-coordinate | | | | - | | | | | |
| Locality type | pe Borehole Date drilled | | | | | Unknown | | | | | | | | | |
| Borehole depth | - | | Во | rehole diameter | | 200 mm | | Colla | ar height 200 m | | | | | | |
| Estimated yield per ho | ur | 60l/min (est) | | | Те | st certificate | | | Yes | | | - | No | | - |
| Reservoir & size | - | | | | | | | | | | | | | | |
| Liter | | Submersible | - | Mono pump | - | Windmill | - | Hand pui | тр | - | Other | | | | |
| | | | | | | | | | | | | | | | |

| Current* and Future Use Information | | | | | | | | | |
|-------------------------------------|------------|---|--------------------|---|----------|---|-------|---|--|
| In use | Yes | - | No | - | Other | | | | |
| Current and future use | Irrigation | - | Livestock watering | - | Domestic | - | Other | - | |
| | | | | | | | | | |
| | | | | | | | | | |

| Sampler | | Sampling Information | | | | | | | | | | | |
|----------------------------|---------------|----------------------|------------|--------------------|--|--|--|--|--|--|--|--|--|
| | Carl / Coenie | Date sampled | 30/01/2017 | | | | | | | | | | |
| Sample type | Inorganic | Static water level | 42 m | | | | | | | | | | |
| Short locality description | on: | | | No locality photo | | | | | | | | | |
| | | | | No locality prioto | | | | | | | | | |
| Comments: | | | | | | | | | | | | | |



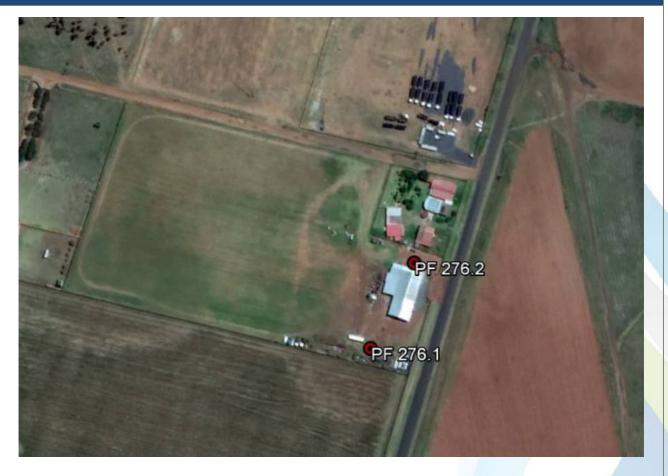
address: 89 regency drive, R21 corpora e bark, centurion postal; p.o. box 905008, garsfontein, 0042 web: www.aquatico.co.za

office: 012 450 3800 • fax: 012 450 3851

PROJECT DETAILS

Rietkol Project

| | | Pers | onal Details | |
|------------------|--------------|-------------------------------|--------------------------|--------------------------|
| Physical address | MODI | DER EAST ORCHA HOLDING 276 | | |
| Postal address | | | | No Profile Picture Taken |
| District/Town | | DELMAS, 2210 | No Profile Picture Laken | |
| Owner | | Pieter Fourie | | |
| Contact person | | Tienie Fourie | | |
| Cell | 082 924 3100 | Tel | | |
| Fax | | - | | |
| E-mail | | | Signature | |



| | Source Information | | | | | | | | | | | | | | |
|-------------------------|---|---------------|--------------|----------------|----------------|----------------|---------|----------|--------|-------|-------|------|----|---|---|
| Project | Project Rietkol Project | | | | Lo | cality number | | | PF | 276.1 | | | | | |
| Coordinates | X-coordinate 28.61821 Y-coordinate 26.12791 | | | | Z-coordinate - | | | | | | | | | | |
| Locality type | | Borehole | Date drilled | | | Unk | Unknown | | | | | | | | |
| Borehole depth | 220 m | | Bor | ehole diameter | | 38 cm | | Colla | r heig | ght | | 38 (| cm | | |
| Estimated yield per hor | ır | 24 000 liters | | | Te | st certificate | | | Yes | ; | | - | No | | Х |
| Reservoir & size | voir & size 20 000 liters | | | | | | | | | | | | | | |
| Liter | | Submersible | X | Mono pump | - | Windmill | - | Hand pui | тр | - | Other | | | - | |

| Current* and Future Use Information | | | | | | | | | |
|-------------------------------------|------------|---|--------------------|---|----------|---|-------|------|--|
| In use | Yes | Х | No | - | Other | - | | | |
| Current and future use | Irrigation | - | Livestock watering | - | Domestic | Х | Other | Work | |
| | | | | | | | | | |
| | | | | | | | | | |

| Jean-Erik Inorganic | Date sampled Static water level | 16/03/2018 - | |
|------------------------|---------------------------------|---|--|
| ı: Hoewe 276. Boreh | ole behind workshop | | |
| | | | |
| n | | | |
| | Inorganic : Hoewe 276. Boreh | Jean-Erik Date sampled Inorganic Static water level : Hoewe 276. Borehole behind workshop | Inorganic Static water level - : Hoewe 276. Borehole behind workshop |

| | | | | A0101010101010 | - | | 400000 | | | | | | | | |
|--------------------------|-----------|-----------------|-----------|----------------|----------|---------------|-----------------------|--------|--------|-------|--|----|----|--|---|
| Source Information | | | | | | | | | | | | | | | |
| Project | | Rietkol Project | 4 | | Loc | ality number | | | PF | 276.2 | | | | | |
| Coordinates | | X-coordinate | | 28.61858 | Y | -coordinate | 26.12735 Z-coordinate | | | 9 | | | | | |
| Locality type | | Borehole | | | Dat | e drilled | | | Unk | nown | | | | | |
| Borehole depth | Est. 75 m | 1 | Bore | ehole diameter | | 20.3 cm | | Collar | r heig | jht | | 28 | cm | | |
| Estimated yield per hou | ır | 6000 liters | M | | Tes | t certificate | | | Yes | ; | | - | No | | - |
| Reservoir & size | None | | 1 | | | | | | | | | | | | |
| Liter Submersible - Mone | | | Mono pump | - | Windmill | - | Hand pur | np | - | Other | | | - | | |
| | | | Zħ. | | | | | | | | | | | | |

| Current and Future Use Information | | | | | | | | | | | |
|---|------------|---|--------------------|---|----------|---|-------|---|--|--|--|
| In use | Yes | 1 | No | Х | Other | - | | | | | |
| Current and future use | Irrigation | - | Livestock watering | - | Domestic | - | Other | - | | | |
| Future use when other borehole dries up | | | | | | | | | | | |
| | | | | | | | | | | | |

| | | Samplin | g Information | |
|------------------------|------------------------|---------------------------------|-----------------------|--|
| Sampler Sample type | Jean-Erik inorganic | Date sampled Static water level | 16/03/2018 20.20 m | |
| | ption: Hoewe 276. Bore | hole next to workshop | | |
| | | | | |
| Comments: Sample | e taken | | | |
| Comments: Sample | e taken | | | |



address: 89 regency drive, R21 corporale bank, centurion postal; p.o. box 905008, garsfontein, 0042 web: www.aquatico.co.za

office: 012 450 3800 • fax: 012 450 3851

PROJECT DETAILS

Rietkol Project

| | | Pers | onal Details | |
|------------------|--------------|------------------------------|--------------------------|--------------------------|
| Physical address | MODD | ER EAST ORCHA HOLDING 277 | | |
| Postal address | | | | No Profile Picture Taken |
| District/Town | | DELMAS, 2210 | No Profile Picture Laken | |
| Owner | | Dr. Kobus Greef | f | |
| Contact person | | Dr. Kobus Greef | f | |
| Cell | 081 861 5600 | Tel | | |
| Fax | | - | | |
| E-mail | | - | Signature | |



| | | | | Sourc | e li | nformation | | | | | | | | |
|-------------------------|--------|-----------------------|-----|----------------|-----------------|-----------------|-------|----------|-------|--------------|-----|---|----|---|
| Project | | Rietkol Project | | | Locality number | | | KG | 277 | | | | | |
| Coordinates | | X-coordinate 28.61543 | | | | Y-coordinate | 26.12 | 2689 | | Z-coordinate | | | - | |
| Locality type | | Borehole | | | Date drilled | | | Unknown | | | | | | |
| Borehole depth | - | | Bor | ehole diameter | - Colla | | | Colla | r hei | ght | | - | | |
| Estimated yield per hou | ır | 24 000 liters | | | Te | est certificate | | | Yes | S | T - | N | lo | Х |
| Reservoir & size | 20 000 | liters | | | | | | | | | | | | |
| Liter | | Submersible | X | Mono pump | - | Windmill | - | Hand pur | mp | - Otl | ner | | - | |

| Current* and Future Use Information | | | | | | | | | | |
|-------------------------------------|------------|---|--------------------|---|----------|---|-------|------|--|--|
| In use | Yes | Х | No | - | Other | - | | | | |
| Current and future use | Irrigation | - | Livestock watering | - | Domestic | Х | Other | Work | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

| | | Samplin | g Information | |
|------------------------|------------------------|---------------------------------|---------------|--|
| Sampler Sample type | Jean-Erik Inorganic | Date sampled Static water level | 16/03/2018 | |
| Short locality descrip | tion: Hoewe 277. Boreh | ole next to house | | |
| | | | | |
| Comments: Sample to | aken | | | |



address: 89 regency drive, R21 corporate bank, centurion postal: p.o. box 905008, garsfontein, 0042 web: www.aquatico.co.za

office: 012 450 3800 • fax: 012 450 3851

| PROJECT DETAILS | Rietkol Project |
|-----------------|-----------------|
|-----------------|-----------------|

| | Personal Details | |
|------------------|---|--------------------------|
| Physical address | MODDER EAST ORCHARDS AH, HOLDING 282 | |
| Postal address | | No Profile Picture Taken |
| District/Town | DELMAS, 2210 | No Profile Picture Taken |
| Owner | Riaan Fisher | |
| Contact person | Riaan Fisher | |
| Cell | - Tel - | |
| Fax | - | |
| E-mail | - | Signature |



| | | | | Sourc | e Inf | ormation | | | | | | | | | |
|------------------------|-----------------|--------------|-----------------------|-----------------|--------------|---------------|-----|----------|---------|----|--------------|---|----|---|---|
| Project | Rietkol Project | | | Locality number | | | | RF2 | 82.1 | | | | | | |
| Coordinates | | X-coordinate | X-coordinate 28.61396 | | | '-coordinate | 26. | 26.12995 | | | Z-coordinate | | | | |
| Locality type | | Borehole | | | Date drilled | | | | Unknown | | | | | | |
| Borehole depth | 150 m | | Bor | ehole diameter | | - | | Collai | r heig | ht | | - | | | |
| Estimated yield per ho | ur | 960 liters | | | Tes | t certificate | | | Yes | | | - | No | | - |
| Reservoir & size | - | | | | | | | | | | | | | | |
| Liter | | Submersible | - | Mono pump | - | Windmill | - | Hand pur | тр | - | Other | | | - | |

| Current* and Future Use Information | | | | | | | | | | | |
|--------------------------------------|------------|---|--------------------|---|----------|---|-------|---|--|--|--|
| In use | Yes | - | No | Х | Other | - | | | | | |
| Current and future use | Irrigation | - | Livestock watering | - | Domestic | - | Other | - | | | |
| Not in use. Planned future domestic. | | | | | | | | | | | |
| | | | | | | | | | | | |

| | | Samplir | ng Information | |
|------------------------|-----------------|---------------------------------|-----------------------|--|
| Sampler Sample type | - Inorganic | Date sampled Static water level | 20/03/2018 46.84 m | |
| Short locality descrip | tion: Hoewe 282 | | | |
| | | | | |
| Comments: Sample to | ıken | | | |

| | | | Sourc | e Inf | ormation | 40000 | | | | | | | | |
|-------------------------|---------|--------------|-------------------|-------|----------------|----------|----------|--------|--------------|-------|---|----|---|---|
| Project | 00011 | | cality number | | | RF2 | 282.2 | | | | | | | |
| Coordinates | | X-coordinate | 28.61343 | Y | '-coordinate | 26.13052 | | | Z-coordinate | | | - | | |
| Locality type | | Borehole | | Dat | e drilled | | | Unk | nown | | | | | |
| Borehole depth | Unknowr | i E | Sorehole diameter | | 7 | | Colla | r heig | ght | | - | | | |
| Estimated yield per hou | ır | Unknown | | Tes | st certificate | | | Yes | ; | | - | No | | - |
| Reservoir & size | None | | | | | | | | | | | | | |
| Liter | | Submersible | - Mono pump | - | Windmill | - | Hand pur | тр | T - 1 | Other | | | - | |
| | | | | | | | | | | | | | | |

| Current and Future Use Information | | | | | | | | | | |
|------------------------------------|------------|---|--------------------|---|----------|---|-------|---|--|--|
| In use | Yes | - | No | Х | Other | - | | | | |
| Current and future use | Irrigation | - | Livestock watering | - | Domestic | - | Other | - | | |
| Not in use | | | | | | | | | | |
| | | | | | | | | | | |

| | A | | | |
|-----------------------|--------------------------|---------------------|-------------|--|
| - | 2000 | Sampling | Information | |
| Sampler | _ | Date sampled | 20/03/2018 | |
| Sample type | - | Static water level | 8.5 m | |
| Short locality descri | ption: Hoewe 282 | | | |
| Comments: Sample | e not taken. Borehole ca | eved in at 11.6 mbs | | |



address: 89 regency drive, R21 corpora e bark, centurion postal; p.o. box 905008, garsfontein, 0042 web: www.aquatico.co.za

office: 012 450 3800 • fax: 012 450 3851

| PROJECT DETAILS | Rietkol Project |
|-----------------|-----------------|

| | | Pers | onal Details | |
|------------------|--------------|------------------------------------|--------------|--------------------------|
| Physical address | | DER EAST ORCHA OLDINGS 158, 160 | | |
| Postal address | | | | No Profile Picture Taken |
| District/Town | | DELMAS, 2210 | | No Profile Picture Laken |
| Owner | | Sarel Kritzinger | | |
| Contact person | | Sarel Kritzinger | | |
| Cell | 082 412 2575 | Tel | | |
| Fax | | - | | |
| E-mail | | | | Signature |



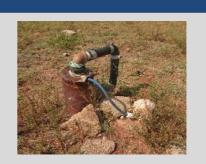
| | | | | Sourc | e In | formation | | | | | | | | | |
|------------------------|----|-----------------|-----|----------------|-----------------|----------------|-----|---------|--------|------|----------|----|----|---|---|
| Project | | Rietkol Project | | | Locality number | | | SK | 160 | | | | | | |
| Coordinates | | X-coordinate | | 28.60494 | , | Y-coordinate | 26. | 11764 | | Z-co | ordinate | Э | - | | |
| Locality type | | Borehole | | | Da | te drilled | | | Unk | nown | | | | | |
| Borehole depth | - | | Bor | ehole diameter | | 16 cm | | Colla | r heig | ght | | 30 | cm | | |
| Estimated yield per ho | ur | - | | | Te | st certificate | | | Yes | ; | | - | No | | Х |
| Reservoir & size | - | | | | | | | | | | | | | | |
| Liter | | Submersible | X | Mono pump | - | Windmill | - | Hand pu | mp | - | Other | | | - | |

| | Current* and Future Use Information | | | | | | | | | | | |
|------------------------|-------------------------------------|---|--------------------|---|----------|---|-------|---|--|--|--|--|
| In use | Yes | х | No | - | Other | - | | | | | | |
| Current and future use | Irrigation | х | Livestock watering | Х | Domestic | х | Other | - | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

| | | Sampli | ng Information |
|-------------|-----------|--------------------|----------------|
| Sampler | Jean-Erik | Date sampled | 16/03/2018 |
| Sample type | - | Static water level | - |
| | • | | |

Short locality description: Hoewe 160. Situated in a field next to the road.





| | | | | Almontonion, | - 10 | | 40000000 | | | | | | | | |
|------------------------|-----------|-----------------|------|----------------|--------|---------------|----------|----------|-------|------|----------|----------|----|---|---|
| | | | | Source | e Info | ormation | | | | | | | | | |
| Project | | Rietkol Project | _ | | Loc | ality number | | | SK 1 | 58 | | | | | |
| Coordinates | | X-coordinate | | 28.60101 | Y | -coordinate | 26. | 11829 | | Z-co | ordinate | = | | | |
| Locality type | | Borehole | P | 1 | Date | e drilled | | | Unkr | nown | | | | | |
| Borehole depth | Est. 81.6 | 9 m | Bore | ehole diameter | | Unknown | | Collar | heigl | ht | | - | | | |
| Estimated yield per ho | ur | - | M | | Tes | t certificate | | | Yes | | | - 1 | No | | - |
| Reservoir & size | None | | | | | | | | | | | | | | |
| Liter | | Submersible | X | Mono pump | - | Windmill | - | Hand pun | np | - | Other | | | - | |

| | Current* and Future Use Information | | | | | | | | | | |
|-------------------------|-------------------------------------|-----|--------------------|---|----------|---|-------|---|--|--|--|
| In use | Yes | - | No | Х | Other | - | | | | | |
| Current and future use | Irrigation | - " | Livestock watering | - | Domestic | - | Other | - | | | |
| Planned to be used from | June 2018 | | | | | | | | | | |
| | | | | | | | | | | | |

| | Sampling Information | | | | | | | |
|-------------|----------------------|--------------------|------------|--|--|--|--|--|
| Sampler | Jean-Erik | Date sampled | 16/03/2018 | | | | | |
| Sample type | - | Static water level | 41.25 m | | | | | |
| | | | | | | | | |

Short locality description: Hoewe 158.

Comments: Borehole is covered by soil, has a fitting and will be used in the future. No sample taken.



Appendix E

Test reports









Client:Groundwater CompleteDate of certificate:25 April 2016Address:Plot 9, Riversdale, 6670Date accepted:18 April 2016Report no:30522Date completed:25 April 2016

Report no:30522Date completed:25Project:Groundwater complete - Rietkol HydrocencusRevision:0

Lab no: 255607 255608 255609 255610 255611 255612 255613 Date sampled: 10-Apr-16 10-Apr-16 10-Apr-16 10-Apr-16 10-Apr-16 10-Apr-16 10-Apr-16 Sample type: Water Water Water Water Water Water Water Locality description: 148PB1 202Unex2 208BM 153MT2 213IW1 229HDP 222PK **Analyses** Unit Method A pH @ 25°C рΗ ALM 20 7.42 7.30 8.00 7.53 7.85 8.78 6.95 A Electrical conductivity (EC) @ 25°C mS/m AIM 20 45.2 19.6 38.3 37.7 32.7 21.3 38.1 A Total dissolved solids (TDS) mg/l **ALM 26** 264 120 216 211 173 127 209 A Total alkalinity mg CaCO₃/I **ALM 01** 166 34.7 183 204 155 99.4 168 A Chloride (CI) mg/l ALM 02 14.9 7.50 6.26 2.33 1.84 1.93 20.8 A Sulphate (SO₄) **ALM 03** 7.03 3.86 12.0 4.67 14.7 5.62 5.13 mg/l A Nitrate (NO₃) as N 0.305 mg/l **ALM 06** 11.7 12.1 2.61 0.734 3.01 1.28 A Ammonium (NH₄) as N **ALM 05** < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 mg/l A Orthophosphate (PO₄) as P 0.055 < 0.002 < 0.002 < 0.002 < 0.002 < 0.002 < 0.002 **ALM 04** mg/l A Fluoride (F) mg/l **ALM 08** < 0.142 0.183 0.201 0.230 0.171 <0.142 0.490 A Calcium (Ca) mg/l **ALM 30** 48.7 17.6 35.8 42.0 35.0 11.6 36.3 A Magnesium (Mg) mg/l **ALM 30** 27.6 10.7 31.5 28.4 21.5 7.84 22.5 A Sodium (Na) **ALM 30** 9.48 4.57 5.37 2.71 mg/l 6.68 25.8 13.7 A Potassium (K) **ALM 30** 0.676 0.898 0.925 0.937 mg/l 0.562 2.00 A Aluminium (AI) mg/l **ALM 31** < 0.002 < 0.002 < 0.002 < 0.002 < 0.002 < 0.002 < 0.002 A Iron (Fe) mg/l **ALM 31** < 0.004 < 0.004 < 0.004 < 0.004 < 0.004 < 0.004 < 0.004 A Manganese (Mn) mg/l **ALM 31** < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 A Chromium (Cr) mg/l **ALM 31** < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 A Copper (Cu) mg/l **ALM 31** < 0.002 < 0.002 < 0.002 < 0.002 < 0.002 < 0.002 0.922 A Nickel (Ni) mg/l **ALM 31** < 0.002 < 0.002 < 0.002 < 0.002 < 0.002 <0.002 <0.002 A Total hardness mg CaCO₃/I ALM 26 235 88 219 222 176 183

A = Accredited N = Non accredited O = Outsourced S = Sub-contracted NR = Not requested RTF = Results to follow NATD = Not able to determine The results relates only to the test item tested.

Results reported against the limit of detection.







Client:Groundwater CompleteDate of certificate:25 April 2016Address:Plot 9, Riversdale , 6670Date accepted:18 April 2016Report no:30522Date completed:25 April 2016

Project: Groundwater complete - Rietkol Hydrocencus Revision: 0

| Lab no: | | | 255614 | 255615 | 255616 |
|--|------------|--------|-----------|-----------|-----------|
| Date sampled: | | | 10-Apr-16 | 10-Apr-16 | 10-Apr-16 |
| Sample type: | | | Water | Water | Water |
| Locality description: | | | 226BKM | 235LP3 | 278JDP02 |
| Analyses | Unit | Method | | | |
| A pH @ 25°C | рН | ALM 20 | 8.13 | 8.24 | 8.62 |
| A Electrical conductivity (EC) @ 25°C | mS/m | ALM 20 | 29.3 | 23.4 | 36.3 |
| A Total dissolved solids (TDS) | mg/l | ALM 26 | 167 | 133 | 196 |
| A Total alkalinity | mg CaCO₃/I | ALM 01 | 145 | 114 | 158 |
| A Chloride (CI) | mg/I | ALM 02 | 7.74 | 4.20 | 13.0 |
| A Sulphate (SO ₄) | mg/l | ALM 03 | 5.41 | 7.67 | 10.9 |
| A Nitrate (NO ₃) as N | mg/l | ALM 06 | 0.606 | 1.09 | 0.615 |
| A Ammonium (NH ₄) as N | mg/l | ALM 05 | <0.005 | <0.005 | <0.005 |
| A Orthophosphate (PO ₄) as P | mg/l | ALM 04 | <0.002 | <0.002 | <0.002 |
| A Fluoride (F) | mg/l | ALM 08 | 0.180 | 0.198 | 0.221 |
| A Calcium (Ca) | mg/l | ALM 30 | 35.2 | 18.9 | 29.1 |
| A Magnesium (Mg) | mg/l | ALM 30 | 15.8 | 18.0 | 22.4 |
| A Sodium (Na) | mg/l | ALM 30 | 10.5 | 8.58 | 18.8 |
| A Potassium (K) | mg/l | ALM 30 | 0.994 | 1.33 | 2.02 |
| A Aluminium (Al) | mg/l | ALM 31 | <0.002 | <0.002 | <0.002 |
| A Iron (Fe) | mg/l | ALM 31 | <0.004 | <0.004 | <0.004 |
| A Manganese (Mn) | mg/l | ALM 31 | <0.001 | <0.001 | <0.001 |
| A Chromium (Cr) | mg/l | ALM 31 | <0.003 | <0.003 | <0.003 |
| A Copper (Cu) | mg/l | ALM 31 | <0.002 | <0.002 | <0.002 |
| A Nickel (Ni) | mg/l | ALM 31 | <0.002 | <0.002 | <0.002 |
| A Total hardness | mg CaCO₃/I | ALM 26 | 153 | 121 | 165 |

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Results reported against the limit of detection.

Results marked 'Not SANAS Accredited' in this report are not included in the SANAS Schedule of Accreditation for this laboratory.

Uncertainty of measurement available on request for all methods included in the SANAS Schedule of Accreditation.

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Client: Groundwater Complete **Address:** Plot 9, Riversdale , 6670

Report no: 36945

Project: Groundwater Complete - Rietkol Hydrocencus

Date of certificate: 09 February 2017

Date accepted: 06 February 2017

Date completed: 09 February 2017

Revision: 0

| Lab no: | | | 36045 | 36046 | 36047 | 36048 | 36049 | 36050 | 36051 |
|--|------------|--------|-------------|--------------|-------------|------------------|--------------|--------------|--------------|
| Date sampled: | | | 30-Jan-2017 | 30-Jan-2017 | 30-Jan-2017 | 30-Jan-2017 | 30-Jan-2017 | 30-Jan-2017 | 30-Jan-2017 |
| Sample type: | | | Water | Water | Water | Water | Water | Water | Water |
| Locality description: | | | | Section 15.2 | Section 2.1 | Section 24.13 | Section 63.1 | Section 24.5 | Section 71.4 |
| Analyses | Unit | Method | | | | | | | |
| A pH @ 25°C | рН | ALM 20 | 7.92 | 7.73 | 8.29 | 7.94 | 8.50 | 7.90 | 8.31 |
| A Electrical conductivity (EC) @ 25°C | mS/m | ALM 20 | 44.7 | 29.1 | 29.8 | 38.2 | 43.2 | 41.4 | 33.8 |
| A Total dissolved solids (TDS) | mg/l | ALM 26 | 265 | 182 | 182 | 219 | 261 | 246 | 205 |
| A Total alkalinity | mg CaCO3/I | ALM 01 | 221 | 184 | 140 | 214 | 181 | 213 | 180 |
| A Chloride (CI) | mg/l | ALM 02 | 17.0 | 3.85 | 7.38 | 9.95 | 20.6 | 10.1 | 9.05 |
| A Sulphate (SO ₄) | mg/l | ALM 03 | 19.9 | <0.141 | 0.402 | 1.25 | 44.5 | 20.0 | 18.5 |
| A Nitrate (NO₃) as N | mg/l | ALM 06 | 0.830 | 0.508 | 7.69 | 0.644 | 0.719 | 0.382 | 0.374 |
| A Ammonium (NH ₄) as N | mg/l | ALM 05 | 0.099 | 0.078 | 0.047 | 0.045 | 0.101 | 0.047 | 0.049 |
| A Orthophosphate (PO ₄) as P | mg/l | ALM 04 | 0.051 | 0.044 | 0.038 | 0.110 | 0.039 | 0.070 | 0.045 |
| A Fluoride (F) | mg/l | ALM 08 | 0.395 | 0.340 | <0.263 | 0.418 | 0.268 | 0.374 | <0.263 |
| A Calcium (Ca) | mg/l | ALM 30 | 46.2 | 29.4 | 30.7 | 36.2 | 32.2 | 42.8 | 28.7 |
| A Magnesium (Mg) | mg/l | ALM 30 | 22.1 | 16.9 | 18.6 | 21.4 | 25.8 | 20.3 | 24.3 |
| A Sodium (Na) | mg/l | ALM 30 | 18.3 | 12.8 | 3.42 | 12.7 | 21.4 | 16.6 | 11.9 |
| A Potassium (K) | mg/l | ALM 30 | 2.40 | 3.48 | 1.38 | 4.07 | 2.11 | 3.66 | 1.41 |
| A Aluminium (Al) | mg/l | ALM 31 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| A Iron (Fe) | mg/l | ALM 31 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 |
| A Manganese (Mn) | mg/l | ALM 31 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| A Chromium (Cr) | mg/l | ALM 31 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 |
| A Copper (Cu) | mg/l | ALM 31 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| A Nickel (Ni) | mg/l | ALM 31 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| A Total hardness | mg CaCO3/I | ALM 26 | 206 | 143 | 153 | 179 | 187 | 191 | 172 |
| A Sodium Adsorption Ratio | SAR | ALM 26 | 0.56 | 0.47 | 0.12 | 0.41 | 0.68 | 0.52 | 0.40 |
| A Difference | % | ALM 26 | -3.87 | -4.66 | -4.88 | -4.90 | -4.79 | -4.07 | -3.47 |

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Results reported against the limit of detection.







Client: Groundwater Complete **Address:** Plot 9, Riversdale , 6670

Report no: 36945

Project: Groundwater Complete - Rietkol Hydrocencus

Date of certificate: 09 February 2017Date accepted: 06 February 2017Date completed: 09 February 2017

Revision: 0

| Lab no: | | | | 36052 |
|-------------------------------------|-------------|------------|--------|--------------|
| Date sampled: | | | | 30-Jan-2017 |
| Sample type: | | | | Water |
| Locality description: | | | | Section 72.5 |
| Analyse | s | Unit | Method | |
| A pH @ 25°C | | рН | ALM 20 | 8.32 |
| A Electrical conductivity | (EC) @ 25°C | mS/m | ALM 20 | 34.7 |
| A Total dissolved solids (| TDS) | mg/l | ALM 26 | 209 |
| A Total alkalinity | | mg CaCO3/I | ALM 01 | 168 |
| A Chloride (CI) | | mg/l | ALM 02 | 14.0 |
| A Sulphate (SO ₄) | | mg/l | ALM 03 | 22.2 |
| A Nitrate (NO₃) as N | | mg/l | ALM 06 | 0.498 |
| A Ammonium (NH ₄) as N | I | mg/l | ALM 05 | 0.059 |
| A Orthophosphate (PO ₄) | as P | mg/l | ALM 04 | 0.042 |
| A Fluoride (F) | | mg/l | ALM 08 | <0.263 |
| A Calcium (Ca) | | mg/l | ALM 30 | 25.9 |
| A Magnesium (Mg) | | mg/l | ALM 30 | 23.0 |
| A Sodium (Na) | | mg/l | ALM 30 | 17.0 |
| A Potassium (K) | | mg/l | ALM 30 | 1.49 |
| A Aluminium (Al) | | mg/l | ALM 31 | <0.002 |
| A Iron (Fe) | | mg/l | ALM 31 | <0.004 |
| A Manganese (Mn) | | mg/l | ALM 31 | <0.001 |
| A Chromium (Cr) | | mg/l | ALM 31 | <0.003 |
| A Copper (Cu) | | mg/l | ALM 31 | <0.002 |
| A Nickel (Ni) | | mg/l | ALM 31 | <0.002 |
| A Total hardness | | mg CaCO3/I | ALM 26 | 159 |
| A Sodium Adsorption Ra | tio | SAR | ALM 26 | 0.59 |
| A Difference | | % | ALM 26 | -3.76 |

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Uncertainty of measurement available on request for all methods included in the SANAS Schedule of Accreditation.

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Client:Groundwater CompleteDate of certificate:20 March 2018Address:Plot 9, Riversdale , 6670Date accepted:19 March 2018Report no:50645Date completed:20 March 2018

Project: Groundwater Complete - Rietkol Hydrocencus **Revision:** 0

| Lab no: | | | 15662 | 15663 | 15664 |
|--|------------|--------|------------------------|------------------------|------------------------|
| LAD NO: | | | 15002 15-Mar- | 15003 15-Mar- | 15-Mar- |
| Date sampled: | | | 2018 | 2018 | 2018 |
| Sample type: | | | Water | Water | Water |
| Locality description: Analyses | Unit | Method | Hoewe276 Locality 1 | Hoewe276 Locality 2 | Hoewe277 Locality 1 |
| A pH @ 25°C | рН | ALM 20 | 8.18 | 7.12 | 8.07 |
| A Electrical conductivity (EC) @ 25°C | mS/m | ALM 20 | 32.1 | 29.6 | 33.1 |
| A Total dissolved solids (TDS) | mg/l | ALM 26 | 200 | 177 | 202 |
| A Total alkalinity | mg CaCO3/I | ALM 01 | 169 | 120 | 156 |
| A Chloride (CI) | mg/l | ALM 02 | 5.43 | 6.38 | 9.16 |
| A Sulphate (SO ₄) | mg/l | ALM 03 | 23.0 | 6.93 | 9.78 |
| A Nitrate (NO₃) as N | mg/l | ALM 06 | 0.912 | 7.58 | 5.23 |
| A Ammonium (NH ₄) as N | mg/l | ALM 05 | 0.192 | 0.192 | 0.036 |
| A Orthophosphate (PO ₄) as P | mg/l | ALM 04 | <0.005 | <0.005 | <0.005 |
| A Fluoride (F) | mg/l | ALM 08 | <0.263 | <0.263 | <0.263 |
| A Calcium (Ca) | mg/l | ALM 30 | 29.6 | 30.8 | 33.0 |
| A Magnesium (Mg) | mg/l | ALM 30 | 25.0 | 18.2 | 21.4 |
| A Sodium (Na) | mg/l | ALM 30 | 7.62 | 5.89 | 8.90 |
| A Potassium (K) | mg/l | ALM 30 | 2.14 | 1.50 | 1.87 |
| A Aluminium (AI) | mg/l | ALM 31 | 0.010 | <0.002 | <0.002 |
| A Iron (Fe) | mg/l | ALM 31 | <0.004 | <0.004 | <0.004 |
| A Manganese (Mn) | mg/l | ALM 31 | <0.001 | 0.038 | <0.001 |
| A Chromium (Cr) | mg/l | ALM 31 | <0.003 | <0.003 | <0.003 |
| A Copper (Cu) | mg/l | ALM 31 | <0.002 | <0.002 | <0.002 |
| A Nickel (Ni) | mg/l | ALM 31 | <0.002 | <0.002 | <0.002 |
| A Total hardness | mg CaCO3/I | ALM 26 | 177 | 152 | 171 |

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Results reported against the limit of detection.







Client:Groundwater CompleteDate of certificate:28 March 2018Address:Plot 9, Riversdale , 6670Date accepted:20 March 2018Report no:50727Date completed:28 March 2018

Project: Groundwater Complete - Rietkol Hydrocencus Revision: 0

| no: | | | 16061 |
|--|------------|--------|-----------------|
| te sampled: | | | 20-Mar- 2018 |
| mple type: | | | Water |
| ality description: | | | RKLX |
| Analyses | Unit | Method | |
| pH @ 25°C | pH | ALM 20 | 7.74 |
| Electrical conductivity (EC) @ 25°C | mS/m | ALM 20 | 65.1 |
| Total dissolved solids (TDS) | mg/l | ALM 26 | 416 |
| Total alkalinity | mg CaCO3/I | ALM 01 | 233 |
| Chloride (CI) | mg/l | ALM 02 | 85.0 |
| Sulphate (SO ₄) | mg/l | ALM 03 | 33.7 |
| Nitrate (NO₃) as N | mg/l | ALM 06 | 0.339 |
| Ammonium (NH₄) as N | mg/l | ALM 05 | 0.137 |
| Orthophosphate (PO ₄) as P | mg/l | ALM 04 | <0.005 |
| Fluoride (F) | mg/l | ALM 08 | 0.302 |
| Calcium (Ca) | mg/l | ALM 30 | 44.5 |
| Magnesium (Mg) | mg/l | ALM 30 | 29.5 |
| Sodium (Na) | mg/l | ALM 30 | 74.4 |
| Potassium (K) | mg/l | ALM 30 | 4.56 |
| Aluminium (Al) | mg/l | ALM 31 | <0.002 |
| Iron (Fe) | mg/l | ALM 31 | <0.004 |
| Manganese (Mn) | mg/l | ALM 31 | 0.193 |
| Chromium (Cr) | mg/l | ALM 31 | <0.003 |
| Copper (Cu) | mg/l | ALM 31 | <0.002 |
| Nickel (Ni) | mg/l | ALM 31 | <0.002 |
| Total hardness | mg CaCO3/I | ALM 26 | 232 |

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Results reported against the limit of detection.