HYDROGEOLOGICAL REPORT

FARM No 02256B, DENNEHOF, LA MOTTE, FRANSCHHOEK

(PORTION 8 OF THE FARM LA MOTTE ANNEX, No 1038, ADMINISTRATIVE DISTRICT OF PAARL)

Prepared for

MULTISOURCE BEVERAGES (Pty) Ltd

08611 HYDR8

by

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31 May 2014

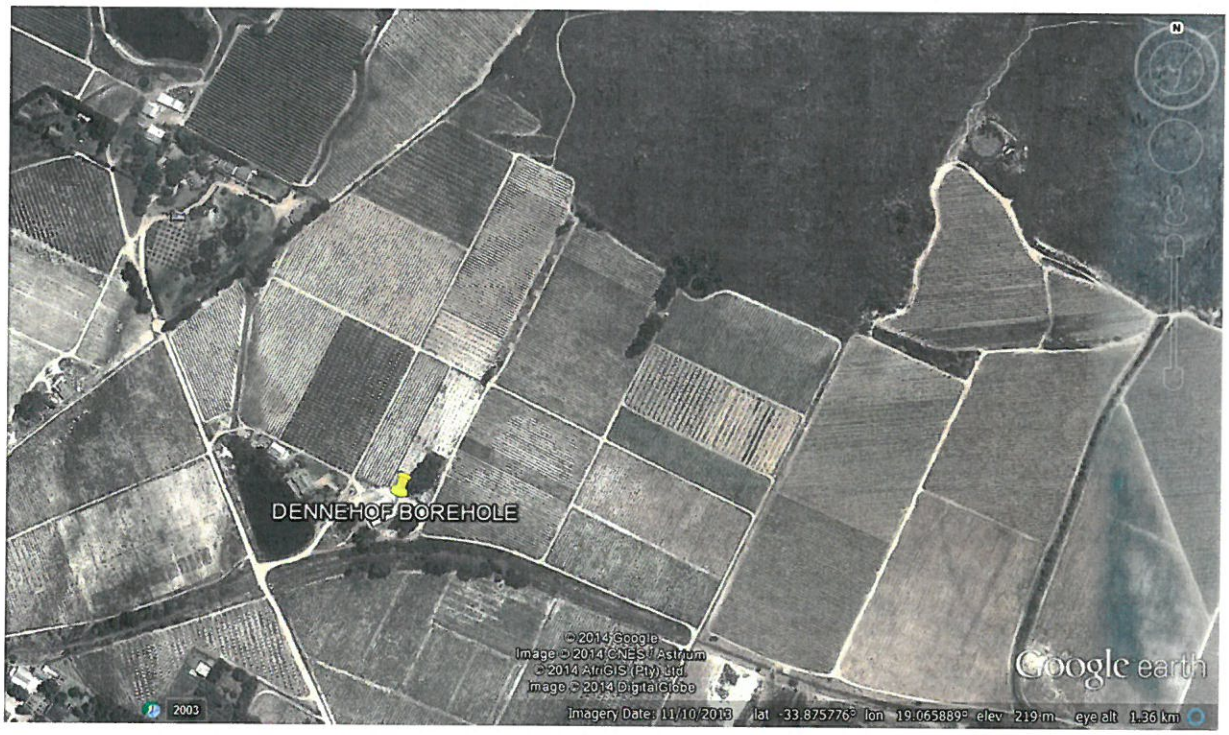
Summary

Excellent quality drinking water has been bottled commercially in the bottling plant on Dennehof farm since late-2007. The source is a semi-artesian borehole extracting pollution-free groundwater at depth from the Franschhoek Formation. The groundwater is recharged by rainfall in the nearby pristine Hawequa Nature Reserve, Klein Drakenstein Mountain range. The rate of commercial extraction is deemed sustainable.

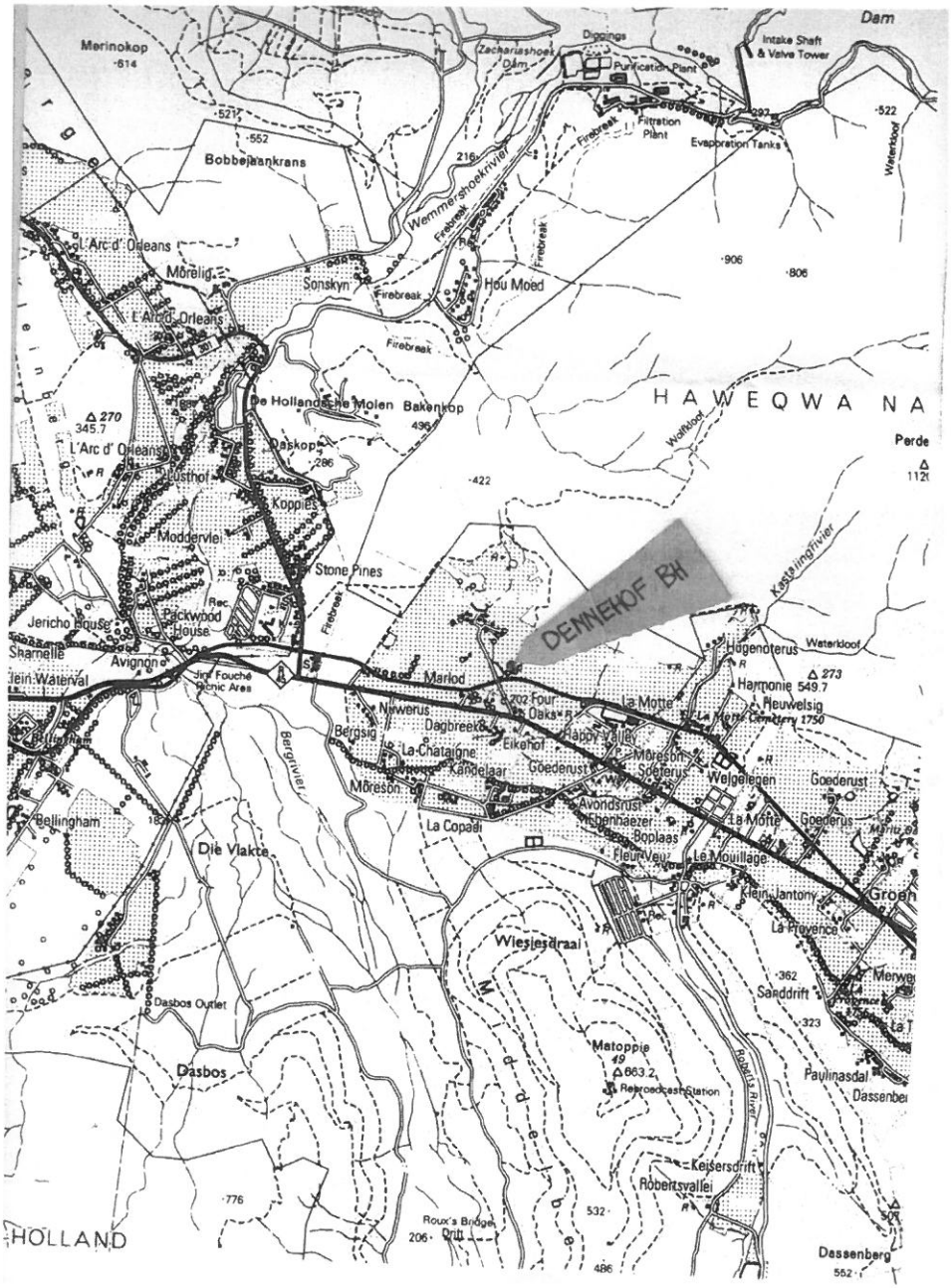
Opsomming

Uitstekende kwaliteit drinkwater word sedert laat-2007 in die botteleer-aanleg op Dennehof plaas gebottel. Die bron is 'n semi-artesiese boorgat wat onbesoedelde water diep uit die Franschhoek Formasie onttrek. Die grondwater word deur reënval in die nabygeleë ongerepte Hawekwa Natuurreservaat, Klein Drakensteinbergreeks, aangevul. Die kommersiële pomptempo word as volhoubaar beskou.

GOOGLE EARTH image of Dennehof Farm and surrounding farmland, showing the location of the Dennehof borehole. Agriculture is mainly wine grape vineyards and fruit orchards. Natural unfarmed land shown in the upper righthand corner is the hilly region of the Hawequa Nature Reserve, Klein Drakenstein Mountain range.



1 : 25 000 (approximate scale) topographical map of Dennehof and surrounding area, showing the location of Dennehof borehole. Map is an enlargement of Sheet 3319CC Franschhoek 1 : 50 000.



OFFICE COPY

DAVID HELLIG & ABRAHAMSE, LAND SURVEYORS

Portion 8 of the Farm La Motte Annex No 1038, Administrative District of Paarl

PLAAS Nr. 02256 B

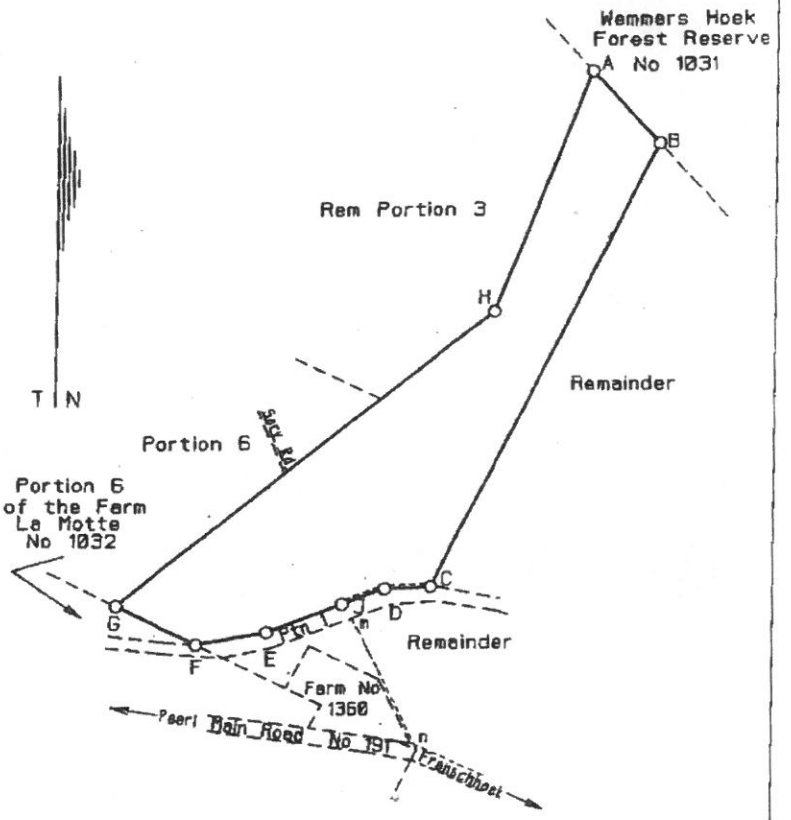
S.G. No
~~8025/1998~~
8084/1998
Approved
for Surveyor-General
1999 - 01 - 06

Sheet No 2 of 2 Sheets

CERTIFIED COPY FOR REGISTRATION
FOR SURVEYOR-GENERAL
DATE 02/04/1999

THIS PORTION IS SUBJECT TO CONDITIONS REFERRED TO IN SECT. 11 (6) OF ACT 21/1940.

APPROVED IN TERMS OF SECT. 4 OF ACT 70/1970
Consent No. 29422
REF 01/1389 2.A.(2)
DATE 1998 - 09 - 01



Surveyed in November and December 1998 by me.

S G DREYER
Land Surveyor
PLS 1028

Scale 1 : 10 000


SPAR
still
spring
water
Bottled at source
5 Litre
nutritional information
Typical mineral composition (mg/l)
Calcium 0,3
Magnesium 1,3
Sodium 12
Potassium 0,2
Chloride 19
Sulphate 1,4
Alkalinity (CaCO3) 9
Nitrate 0,1
Fluoride <0,1
TDS 40
PH 5,8
Filtered spring water bottled at source on farm 1038/7, Franschhoek. Subject to seasonal fluctuations.
STORE IN A COOL, DRY PLACE.
SPAR Consumer Help Line:
0860 313141
Specially packed and quality guaranteed for SPAR South Africa (Pty) Ltd.
22 Chancery Lane/P.O. Box 1589
Pinetown 3600
www.spar.co.za
PRODUCT OF SOUTH AFRICA
6 001008 255342


nutritional information
Typical mineral composition (mg/l)
Calcium 0,3
Magnesium 1,3
Sodium 12
Potassium 0,2
Chloride 19
Sulphate 1,4
Alkalinity (CaCO3) 9
Nitrate 0,1
Fluoride <0,1
TDS 40
PH 5,8
Filtered spring water bottled at source on farm 1038/7, Franschhoek. Subject to seasonal fluctuations.
SPAR
still
spring
water
Bottled at source
1,5 Litre


nutritional information
SPAR
still
mineral
water
750 ml
STORE IN A COOL, DRY PLACE.
SPAR Consumer Help Line:
0860 313141
PRODUCT OF SOUTH AFRICA
6 001008 716164


nutritional information
Typical mineral composition (mg/l)
Calcium 0,3
Magnesium 1,3
Sodium 12
Potassium 0,2
Chloride 19
Sulphate 1,4
Alkalinity (CaCO3) 9
Nitrate 0,1
Fluoride <0,1
TDS 40
PH 5,8
Filtered spring water bottled at source on farm 1038/7, Franschhoek. Subject to seasonal fluctuations.
SPAR
still
spring
water
Bottled at source
500 ml
STORE IN A COOL, DRY PLACE.
SPAR Consumer Help Line:
0860 313141
Specially packed and quality guaranteed for SPAR South Africa (Pty) Ltd.
22 Chancery Lane/P.O. Box 1589
Pinetown 3600
www.spar.co.za
PRODUCT OF SOUTH AFRICA
6 001008 255328

HYDROGEOLOGICAL REPORT

FARM No 02256B, DENNEHOF, LA MOTTE, FRANSCHHOEK

(PORTION 8 OF THE FARM LA MOTTE ANNEX, No 1038, ADMINISTRATIVE DISTRICT OF PAARL)

Introduction

This document follows SANBWA guidelines for a hydrogeological report.

Franschhoek valley is well known for the quality of its bottled water sourced from natural springs and boreholes.

The farm Dennehof No 02256B has been producing bottled water from a semi-artesian borehole since late-2007.

Two established SANBWA-accredited groundwater bottlers closest to Dennehof are:

a) Richeneau Water – located approximately 500 metres north of Dennehof, and
b) La Vie De Luc – located approximately 7 kilometres southeast of Dennehof

In the Franschhoek region the primary aquifer – mostly a confined aquifer -- is the Table Mountain sandstone forming the pristine Klein Drakenstein mountainland known internationally as part of the World Heritage Region for the Cape Fynbos Floral Kingdom (2004).

Groundwater is carried in various sandstone units of the Table Mountain Group, a very thick succession of fractured sedimentary rocks, mostly quartz sandstone.

In the vicinity of Dennehof Farm the elevation of the Franschhoek valley floor is at approximately 208 metres above mean sea level compared to peak heights in the Klein Drakenstein mountain range of the nearby Hawequa Nature Reserve that vary between 1121 metres above mean sea level (Perdekop #22), 1252 metres above mean sea level (Suikerboskop), 1283 metres above mean sea level (Dikkop), and 1419 metres above mean sea level (DuToitskop #272).

Close to Dennehof recharge of the primary aquifer takes place in the Hawequa Nature Reserve located in the Klein Drakenstein mountainous region, where annual rainfall (and rare snowfall) can reach 2000mm.

By comparison average rainfall in the Franschhoek valley itself is approximately 845mm per annum.

The general geological structure of the region close to Dennehof favours leakage of groundwater stored in the confined Table Mountain sandstone aquifer into the Franschhoek Formation – a secondary aquifer, also confined -- underlying the Franschhoek valley.

The Franschhoek Formation consists of various metamorphic rocks; it is poorly exposed at the surface, being generally covered by a variable thickness of quartz sand and scree.

Groundwater in the Franschhoek Formation confined aquifer tends to be concentrated in a complex fracture system of fissures, joints and fault zones; its chemical signature indicates that the groundwater is derived from the Table Mountain sandstone aquifer.

A third aquifer can be recognised on Dennehof farm; as far as the source borehole is concerned this aquifer is of no consequence, being an unconfined aquifer of variable thickness, and sealed off from the borehole by means of casing. The aquifer consists of unconsolidated quartz sand and weathered rock overlying solid rock of the Franschhoek Formation below. Its free water table is presumed to slope southwestward more or less parallel to the gradient of the palaeoterrace.

Location of the Dennehof borehole

The source borehole, here referred to as the Dennehof borehole, is located on Portion 8 of the Farm LaMotte Annex No 1038, Administrative District of Paarl, Farm No. 02256B, Surveyor General No. 8084/1998, generally known as Dennehof, located approximately 7,3 kilometres northwest of Franschhoek and 250 metres north of the R45.

Coordinates of the borehole collar are -33.877 South; +19.063 East, collar elevation of the borehole is 208 metres above mean sea level.

The bottling plant is directly next to the Dennehof borehole (less than 2 metres separation between borehole collar and bottling plant).

Hydrogeology of the source

The Dennehof borehole is located on an abandoned palaeoterrace of the Franschhoek River (tributary to the Berg River).

The palaeoterrace is approximately 3500 metres wide in the vicinity of Dennehof and slopes in a general southwesterly direction from the Wemmershoek hills (Hawequa Nature Reserve) towards the Franschhoek River.

The highest elevation of the palaeoterrace on Dennehof farm is approximately 230 metres above mean sea level, dropping down to about 190 metres above mean sea level at the river, a surface gradient of approximately 0,011.

The surface material for several hundred metres around the borehole is mostly quartz sand several metres thick forming a minor unconfined aquifer with predicted discharge southwestwards towards the Franschhoek River.

The solid rock at depth below the palaeoterrace -- at the Dennehof borehole intersected at 27 metres below collar -- is interpreted as belonging to the Franschhoek Formation.

Nearest Table Mountain sandstone exposures to the Dennehof borehole occur about 350 metres east of the borehole collar; the stratigraphic unit exposed closest to the Dennehof borehole is the Nardouw Formation but eastward progressively lower stratigraphic units of the Table Mountain succession can be found – all contributing to the Table Mountain sandstone confined aquifer.

The conspicuous topographic break between the smooth slope of the palaeoterrace and the rugged Wemmershoek hills marks the general position of the Dennegeur Fault, locally a major structural junction between the Table Mountain sandstone to the northeast of the fault plane, and the Franschhoek Formation to the southwest of the fault plane.

Locally the general dip of the Table Mountain sandstone – the primary confined aquifer in the region – is to the southwest, which serves to generate a significant piezometric groundwater gradient southwestward from the mountainous recharge area towards the valley region, where the Dennehof borehole is located.

Groundwater from the Table Mountain sandstone confined aquifer is delivered to the Dennehof borehole across the Dennegeur Fault along fissures intersected at depth in the Franschhoek Formation.

The Dennehof borehole is sub-artesian, the piezometric pressure in the fracture system intersected at 72 metres below collar, and deeper, being sufficient to force the static water table (rest stage) to within 1 – 2 metres below collar level.

However, from July to January (occasionally up to February) the borehole tends to be artesian; the overflow water (and any waste water from the bottling plant) is piped to the irrigation dam about 150 metres away towards the southwest.

Borehole data

The Dennehof borehole was drilled in September 2007.

Since completion it has been in production as a commercial source of bottled potable water.

The driller's report (RPM Drilling, report 1/2007, dated 19 Sept 2007) indicates a total depth below the collar of 157 metres, loose sand and weathered sandstone being intersected in the uppermost 27 metres.

The rest of the borehole is in solid rock, indicated on the driller's log as "sandstone", interpreted in this report as belonging to the Franschhoek Formation.

According to the driller's log water-bearing fissures were intersected at 72 metres below collar depth, at 83 metres, at 104 metres and at 120 metres.

The information in the driller's log is incomplete to determine whether the uppermost 27 metres of loose material intersected in the borehole represents a minor and independent (unconfined) aquifer, but this scenario is likely.

The borehole is sealed to a depth of 27 metres below the collar by means of a 203mm to 168mm diametre mild steel and PVC casing, thereby effectively sealing off any superficial groundwater that might be present and disconnecting the superficial unconfined aquifer from the sub-artesian water-bearing fissures intersected in the borehole..

The borehole below 27 metres is free-standing in solid rock belonging to the Franschhoek Formation.

The 8-hour pump test (DeVilliers Visser Besproeiing, dated 20 Sept 2007) tested the water yield at a depth of 99 metres below collar.

For the duration of the test the pump rate was maintained at between 13 500 litres per hour and 14 200 litres per hour.

During the first hour the water table dropped rapidly from the pre-test static level of 2 metres below collar to 80 metres below the collar.

During the remainder of the test the water table dropped steadily, reaching a steady state at 94 metres below collar after 6 hours of continuous pumping.

No irregularities in the yield were noticed during the pump test.

Water was initially slightly turbid, clearing after about two days, with no subsequent change noted.

Water extraction equipment

The production pump is located at 75 metres below collar elevation.

The production pump is a low-maintenance AQUANOX QF 25/18/5,5kW, stainless steel, with a Filterwell 125mm pump screen.

The pump has been in continuous service since installation in late-2007.

Delivery pipe from the pump to the holding tank is a 63mm HDPE Class 16 plastic pipe.

The borehole is capped by a bolted airtight steel cover preventing access to the borehole by insects or other unwanted organisms. The borehole collar is protected by a low cement-block wall covered with a removable weatherproof steel cover.

The production cycle during a typical working day consists of a pumping cycle of some 30 minutes, followed by more or less 60 minutes rest time, followed by another pumping cycle, and so on, depending on the demand from the bottling plant.

Approximate extraction on a typical 8-hour working day is around 35 – 40 kiloliters.

During a cycle of production pumping the draw-down water level in the borehole stabilises at approximately 12,5 metres below the collar.

The water table recovers to around 1 – 2 metres below collar height when production is stopped.

Compared to the pump test data the rate of production is deemed to be sustainable.

Pumped water from the borehole is filtered through two intermediate pre-filters before being delivered to a standard Nel's PVC holding tank.

From the holding tank water enters the bottling plant less than 2 metres away.

When the water level in the holding tank drops below a pre-set level the borehole pump automatically starts up to refill the holding tank.

The cover of the holding tank is fully secured and the tank's ventilation opening is screened to prevent entry by insects or other unwanted organisms.

Possible pollution of the aquifer

The nature of the local underground plumbing of the confined underground water flow system makes pollution of the Franschhoek Formation aquifer intersected at depth in the Dennehof borehole extremely unlikely.

The main recharge region is the western Wemmershoek hills, an extensive region consisting of pristine montane fynbos of the Hawequa Nature Reserve where no farming or other agricultural or industrial activity occurs.

The main water-bearing fissures intersected in the Dennehof borehole occur at depth in the Franschhoek Formation (from 72 metres below collar to 120 metres below collar), well away from any potential superficial pollutants.

Any pollution of the unconfined aquifer in the vicinity of the Dennehof borehole – pollution that could possibly derive from rural farming activities – is effectively shielded from the main water-producing fissures by impervious sleeves and casing inserted in the borehole to a depth of 27 metres below collar.

The agricultural activity on Dennehof farm and surrounding farms consists of wine-grape vineyards and fruit orchards.

Agricultural pesticides & fertilisers are applied on Dennehof farm according to standard best-practice specifications and precautions.

A single agricultural irrigation dam on Dennehof farm is located approximately 95 metres downslope (to the southwest) of the production borehole; no interaction with or seepage into the borehole is envisaged.

The nearest residential french drain to the production borehole discharges into the superficial unconfined aquifer at a location more than 100 metres away downslope (to the southwest) on the

neighbouring farm Eikehof; no interaction with or seepage of waste water into the production borehole is expected .

Dennehof farm has, apart from its bottling plant and residential buildings, no underground fuel tanks, no household waste disposal site, no industrial waste site, and no potentially hazardous activity that could contribute to groundwater pollution of either the superficial unconfined aquifer or the deep-seated confined aquifer.

Pollution certification

There is no recognisable indication of any pollution or potential pollution of the groundwater produced from the deep-seated fissures in the confined aquifer.

All geohydrological indications are that the recharge region of the confined aquifer is pollution-free.

The infiltrated groundwater is derived from rainfall in a pristine natural recharge area and there are no signs of any pollution of the groundwater en route to the Dennehof borehole.

Microbiological analysis certificate

The microbiological analysis (Wynland Laboratories report 150420014/2658/M, dated 10 April 2014) reports no *E. coli*, no faecal coliforms, no heterotrophic plate growth, no mould growth, no *Pseudomonas aeroginosa*, no other coliforms and no yeast growth.

The original microbiological analysis (WAL/report WAL/Rep2007/Dennehof.1, dated 12 October 2007) listed similar analytical results.

The current microbiological analysis indicates no microbiological pollution of theDennehof borehole water.

Chemical composition certificate

The standard chemical analysis (Wynland Laboratories report 16042014/2680/C) lists values for 35 tested indicator components in the Dennehof horehole water.

The Dennehof borehole water has analytical values typically associated with pristine uncontaminated Table Mountain sandstone aquifer water (notably its chloride and sodium values, low pH, low total dissolved solids, low carbonate, calcium, magnesium and potassium values).

The analytical values support the contention that the production fissures in the Dennehof borehole derive groundwater sourced exclusively from recharge in the pristine Table Mountain sandstone mountainous region to the northeast.

The very low analytical values for ammonium, cyanide, nitrate, phospherous and potassium indicate that the impact of agricultural fertiliser, pesticides or other pollutants on the chemical composition of the borehole water is insignificant or absent, indicating that the superficial unconfined aquifer – a possible source of polluted groundwater -- is effectively sealed off from the production fissures at depth.

The chemical analysis certificate indicates that no remedial measures or any other measures are called for to protect the Dennehof borehole or its aquifer or its recharge region.

Conclusion

The Dennehof borehole, located on Dennehof farm No 02256B in the Franschhoek valley, Cape Winelands, has been in continuous and sustainable commercial production since late-2007, producing at source high quality, pollution-free, bottled water.

The confined aquifer intersected at depth in the Franschhoek Formation is provided with groundwater derived from the Table Mountain sandstone confined aquifer that has its recharge area in the nearby mountainous region of the pristine Hawequa Nature Reserve.

Recharge of the primary Table Mountain sandstone aquifer is by ample rainfall (and rare snowfall), mainly in die winter season.

Based on the pump test data the current commercial rate of extraction at the Dennehof borehole is deemed sustainable.

^^

RPM Drilling

"SETTING THE DRILLING STANDARD"

VAT REG. NO. 4110105921
Owner: Roy Peter Moore

P.O. Box 73
Rawsonville
6845

Tel: (023) 342 5184
Fax: (023) 347 6045
Cell: 082 568 1163
E-mail: rpmdrilling@vodamail.co.za

BOORGATVOLTOOIINGSVERSLAG
BOREHOLE COMPLETION REPORT

Borehole no:
Borehole nr:..... 1/2007

Description:
Beskrywing:.....

Client nr:
Kliënt: ..... Mnr T.F. Malherbe

Property:
Eiendom:..... Eikehof

Contractor: **RPM Drilling, 36 Carinus Street, Worcester 6850**
Kontrakteur: **RPM Lugdrukbore, Carinusstraat, Worcester 6850**

Proprietor:
Eienaar: **Roy Moore (023) - 342 5184**

Person responsible during drilling process:
Verantwoordelike persoon tydens boorproses:..... G Stadler

Date drilling commenced:
Datum boorgat begin:..... 13.9.2007

Date drilling was completed:
Datum boorgat voltooi:..... 14.9.2007

	DEPT DIEPTE	FORMATION FORMASIE	STRATA
(i)	0 - 24m	Sand & Klip	24m
(ii)	24 - 27m	Verweerde Sandsteen	3m
(ii)	27 - 157m	Sandsteen	130m
(iv)			
(v)			

Total depth of borehole:
Totale diepte van boorgat:..... 157 m

Casing: 203mm 24 m
Voering:168mm :..... 27 m

Water found on depths:
Water gevind op dieptes:..... 72;83;104;120 m

.....m

.....m

Volume capacity as tested: blowyield
Volume kapasiteit soos getoets: blaastoets..... ± 18000 l/h

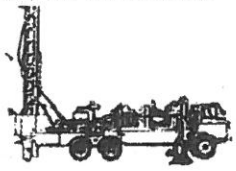
Volume capacity as tested: test pump
Volume kapasiteit soos getoets: toetspomp.....l/h

.....

RP MOORE

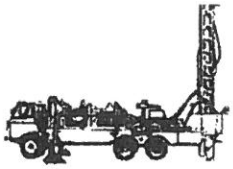
Date/Datum..... 2014.09.14

TUE, 24-JAN-00 21:05 RPM DRILLING 3476045 P.03



RPM LUGDRUKBORE DRILLING

(Roy Moore)



Carinusstraat 36 Carinus Street
Worcester
6850

VAT REG. NO. 4110106921 BTW REG. NR.

Tel.: 023 342 5184
Sel./Cell.: 082 568 1163
Faks./Fax: 023 347 6045

BOORGATVOLTOOINGSVERSLAG
BOREHOLE COMPLETION REPORT

9767

Borehole No.: Boorgat Nr.: 11/2007 Description: Beskrywing:

Client: Kliënt: Mnr T.F. Malherbe Property: Eiendom: Eikehof

Contractor: **RPM Drilling, 36 Carinus Street, Worcester 6850**
Kontrakteur: **RPM Lugdrukbore, Carinusstraat 36, Worcester 6850**

Proprietor: Eienaar: **Roy Moore (023) 342 5184**

Person responsible during drilling process: Verantwoordelike persoon tydens boorproses: G. Stoffer

Date drilling commenced: Datum boorgat begin: 13.9.2007

Date drilling was completed: Datum boorgat voltooi: 14.9.2007

	DEPTH DIEPTE	FORMATION FORMASIE	STRATA
(I)	0 - 24m	Sand + Klip	24m
(II)	24 - 27 m	Verweerde Sandsteen	3 m
(III)	27 - 157m	Sandsteen	130m
(IV)			
(V)			

Total depth of borehole: Totale diepte van boorgat: 157 m

Casing: Voering: 203 mm - 24 m

168 mm - 27 m

Water found on depths: Water gevind op dieptes: 72 m

83 m SAND

104 m SAND

120 m

Volume capacity as tested: Volume kapasiteit soos getoets: (± 4000) gal/h

(± 18000) l/h

75

Date: Datum, 2007.09.19

R.P. MOORE

WPW TEL: (023) 342 2639

De Villiers Visser
Besproeiing BK

CK1993/004434/23
Lid van S.A.B.I.
Ontwerp, verskaf en installeer:
Besproeiingstelsels, Boorgatpompe en Filterstasies
Toets van Boorgate en Diens van Pompstelle

Tel : 021 - 876 2275
Sel : 082 550 8694
Fax : 0866906085
Posbus 89, La Motte, 7691
epos: div@dvbesproeiing.co.za

******* Boorgat Toets Verslag *******

Eienaar:- Mnr. TF Malherbe

Adres:- Dennehof
La Motte

Boorgat No:- Langs stoor op Dennehof

Deursnee:- 168mm **PVC:-** **Van oppervlak tot:-** 27m **In Rots**

Deursnee:- 157mm **Geboor in rots.** **Van:-** 27m **Tot:-** 157m

Totale diepte van boorgat:- 157m

Diepte waarop water gekry was:- 72, 83, 104 + 120m

Statiese watervlak:- 2m

Pompdiepte tydens toets:- 99m

Pomp gebruik tydens toets:- Super "D"T38/22/30kW.

Getoets deur:- Mnr. L.M. Van Tonder **Datum:-** 20/09/2007

.....
De Villiers Visser
Lid

******* Toets resultaat *******

Tegniese gegewens met tussenposes van een uur

	Ure	Vloei in liters per uur	Watervlak tydens toets
0	09h15	14 000	2m
1	10h15	13 500	80m
2	11h15	13 500	89,5m
3	12h15	13 500	91m
4	13h15	13 500	92,5m
5	14h15	14 200	93m
6	15h15	14 200	94m
7	16h15	14 200	94m
8	17h15	14 200	94m

Afwykings indien waargeneem gedurende toets.

.....

.....

.....

****

WYNLAND LABORATORIES

28 Hoofweg, Wellington
7655
A SANAS accredited Testing Laboratory T 0349
Tel: 021 8733514
Fax: 021 8733515
reception@wynlandlab.co.za

Chemical Report

Dennehof Water
Dennehof
La Motte
7691

Report No : 16042014/2680/C
Date : 10-Apr-2014
Lims ID 11268
Order Number C-10.04.14

SampleID:18 620
Water Other 5 Liter

	Result	Test code
Aluminium (as Al)	Not Detected	C102*
Ammonium (as NH4 - N)	<0.0 mg/l	C109
Antimony (as Sb)	Not Detected	C102*
Arsenic (as As)	Not Detected	C102*
Barium (as Ba)	Not Detected	C102*
Bicarbonate (as HCO3)	0.0 mg/l	C117*
Boron (as B)	Not Detected	C102
Cadmium (as Cd)	Not Detected	C102*
Calcium (as Ca)	0.36 mg/l	C102
Carbonate (as CO3)	0.0 mg/l	C117*
Chloride (as Cl)	18.7 mg/l	C110
Chlorine (as Cl2)	< 0.05 mg/l	C114*
Chrome (as Cr)	Not Detected	C102*
COD	<15 mg/l	C108
Copper (as Cu)	Not Detected	C102
Cyanide (as CN)	<0.01 mg/l	C115*
EC	9.2 ms/m	C105*
Fluoride (as F)	<0.1 mg/l	C107
Iron (as Fe)	Not Detected	C102
Lead (as Pb)	Not Detected	C102*
Magnesium (as Mg)	1.20 mg/l	C102
Manganese (as Mn)	Not Detected	C102
Mercury (as Hg)	Not Detected	C102*
Molybdenum (as Mo)	Not Detected	C102*
Nickel (as Ni)	Not Detected	C102*
Nitrate (as NO3 - N)	1.5 mg/l	C106
Nitrite (as NO2)	0.01 mg/l	C121*
pH at 25°C	4.5	C101
Phosphorous (as P)	Not Detected	C102*
Potassium (as K)	0.16 mg/l	C102

*** Test code marked with * not SANAS accredited**

J Havenga

J Havenga Laboratory technician

WYNLAND LABORATORIES
28 Hoofweg, Wellington
7655
A SANAS accredited Testing Laboratory T 0349
Tel: 021 8733514
Fax: 021 8733515
reception@wynlandlab.co.za

Chemical Report

Dennehof Water
Dennehof
La Motte
7691

Report No : 16042014/2680/C
Date : 10-Apr-2014
Lims ID 11268
Order Number C-10.04.14

Selenium (as Se)	Not Detected	C102*
Sodium (as Na)	9.25 mg/l	C102
Sulphate (as SO4)	<5.0 mg/l	C103
TDS	59.0 mg/l	C105.1*
Turbidity	0.08 NTU	C116*
Zinc (as Zn)	Not Detected	C102

End of report

*** Test code marked with * not SANAS accredited**

J Havenga Laboratory technician

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Microbiology Report

Dennehof Water
Dennehof
La Motte
7691

Report No : 15042014/2658/M
Date : 10-Apr-2014
Lims ID 11280
Order Number 10.04.14

SampleID:18698
Water Drink

	Result	Test code
E. coli (Water)	No Growth cfu/100ml	W 106
Faecal Coliforms	No Growth cfu/100ml	W 123
Heterotrophic Plate Count	No Growth cfu/ml	W 102
Moulds	No Growth cfu/ml	W103*
Pseudomonas aeruginosa	No Growth cfu/100ml	W 124
Total Coliforms (Water)	No Growth cfu/100ml	W 104
Yeast	No Growth cfu/ml	W103*

End of report

*** Test code marked with * not SANAS accredited**

T Smith Senior Laboratory technician