

THE GROUNDWATER INDUSTRY AND GOOD GROUNDWATER GOVERNANCE

GROUNDWATER GOVERNANCE “*comprises the enabling framework and guiding principles for responsible **collective action** to ensure control, protection and socially-sustainable utilisation of Groundwater resources for the benefit of humankind and dependent ecosystems*”.

GROUNDWATER INDUSTRY IN SOUTH AFRICA THUS NEEDS TO FORM AN INTEGRAL PART OF GROUNDWATER GOVERNANCE

- Partner with government
- Define roles and responsibilities
- Set up and police standards

IN ORDER FOR THIS TO REALISE THE
GROUNDWATER INDUSTRY WOULD
NEED TO ORGANISE ITSELF IN
ORDER TO TAKE RESPONSIBILITY
FOR THE VARIOUS SECTORS, i.e.

- Professional Hydrogeologists will need to be registered
- Contractors (Drillers, test pumping, pump installers etc) licensed

THIS WILL ENABLE RESPONSIBILITIES
TO BE CLEARLY DEFINED AND DATA
TO BE COLLATED IN A
COMPREHENSIVE WAY

If you do not understand the resource and
have no data to backup your
understanding there can be no
governance

Drilling of boreholes can occur almost anywhere without any requirement to record hydrogeological information



Boreholes can be tested and equipped by anyone



BK 94/04257/23

Plot 108
Noodkudp
WARMBAD

Sel: 082-492-6469
Faks: 086-6371-600
E-pos: lh@intronik.co.za

Posbus 1009
WARMBAD
0480

**TOETS SERTIFIKAAT
TEST CERTIFICATE**

Etelaar: **SAMPADA LODGE PTY(LTD) H/A
LEEUVENHOF COUNTRY LODGE & GARDEN SPA**

Owner:

Boorgat getoets te: **ER 370 LOUBAD RD, MODIMOLLE, 0510**
Borehole tested at:

Beskrywing: **Borehole(3) at workers cottages (Stoor)**

Description:

Boorgat diepte: **Depth:37m** **Water level:13m**
Borehole depth:

Toets Diepte: **32m**
Test Depth:

Lewering: **iuur Fourteen Thousand Eight Hundred and Ninety (14 890L/h)**
Delivery: /hour

Toetsbeampte: **Mnr. H. Horak**
Test Official:

Datum: **24 May 2016**
Date:

Handtekening: **J. H. Konstruksie**
Signature:

Department of Water Affairs and Forestry

Chief Directorate: Community Water Supply and Sanitation
and
Directorate: Geohydrology

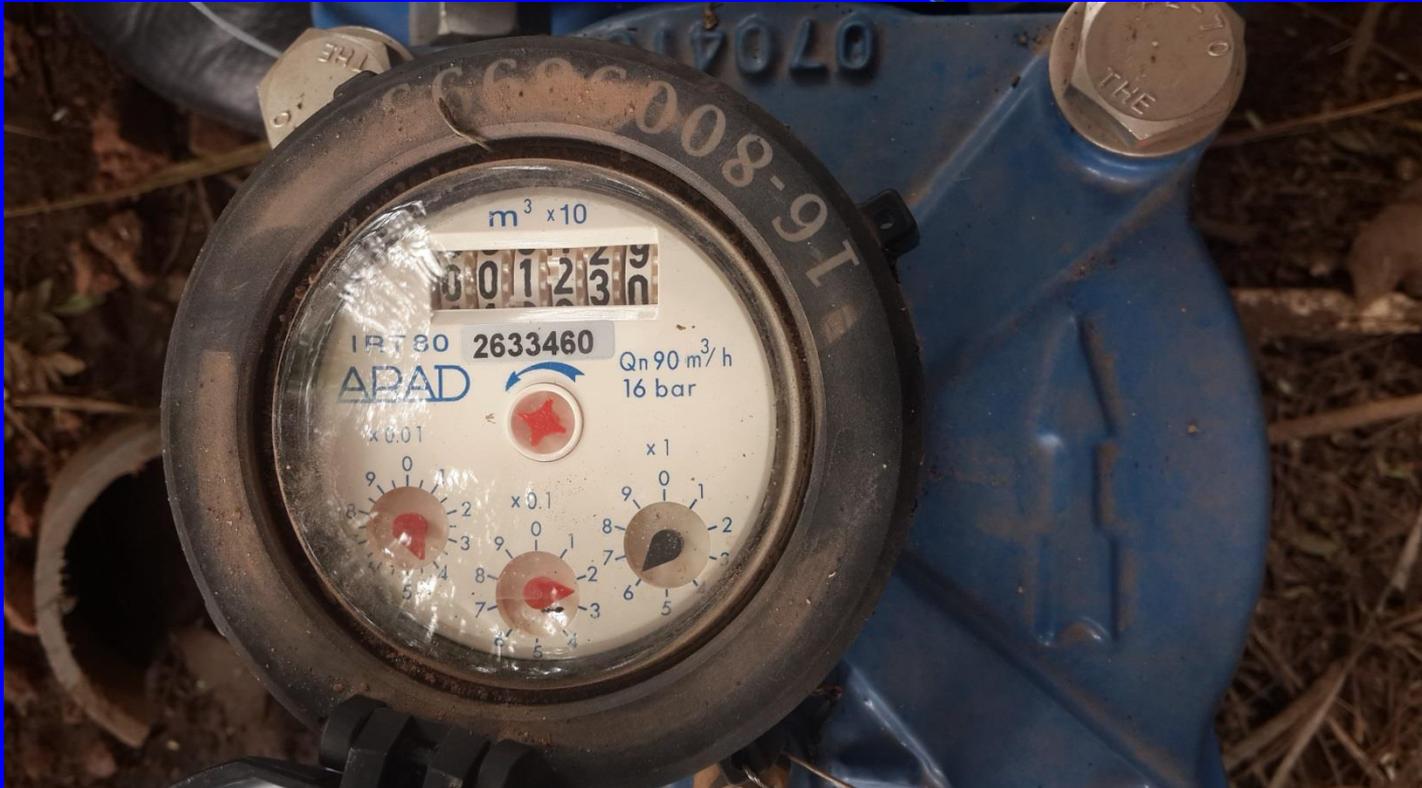
**MINIMUM
STANDARDS AND GUIDELINES FOR
GROUNDWATER RESOURCE DEVELOPMENT
FOR THE
COMMUNITY WATER SUPPLY
AND
SANITATION PROGRAMME**

FIRST EDITION
APRIL 1997

Monitoring



Data Collation



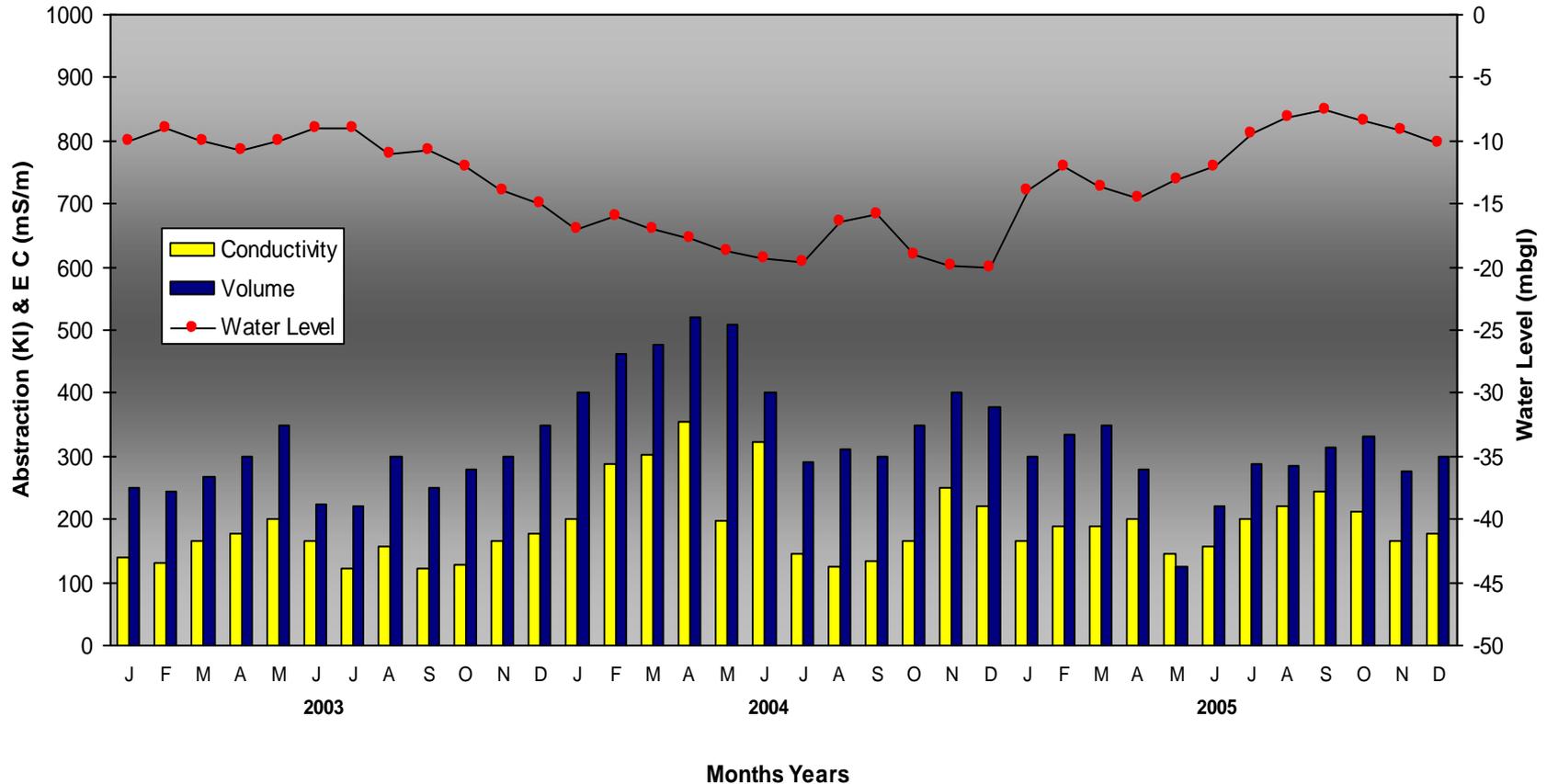
Centralised accessible data storage

GRIP LIMPOPO

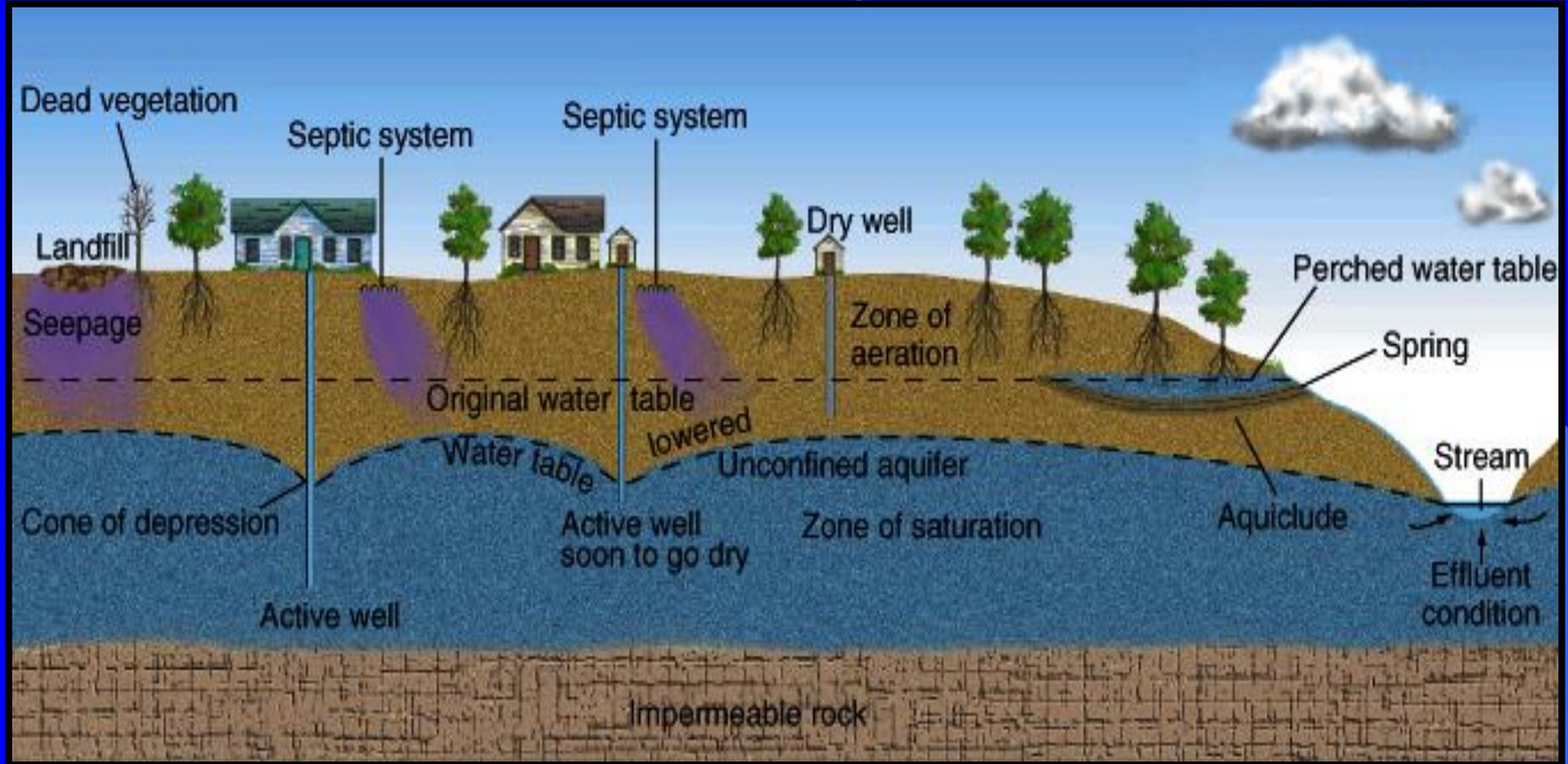
GRIP Project				Borehole Field Data Sheet			
Date of Visit	<input type="text" value="yyyy / mm / dd"/>			District	<input type="text"/>		
Captured	<input type="checkbox"/>	Reporting Institution	<input type="text"/>	Municipality	<input type="text"/>		
BASIC INFORMATION	Reg. BH Nr.	<input type="text" value="H"/>		Alt. BH Nrs.	<input type="text"/>		
1:50000 Map Ref	<input type="text"/>	Site ID Code	<input style="background-color: yellow;" type="text"/>	Rep. Institution	<input type="text"/>		
Farm/Site Name	<input type="text" value="Farm prtn Village"/>						
Province District Farm Nrs	Longitude		<input type="text"/>	Coordinate	<input type="text" value="T Survey"/>		
<input type="text" value="Prov. RegDistrict Farm"/>	Latitude		<input type="text"/>	Method	<input type="text" value="M Interpolate"/>		
Site	<input type="text" value="D"/>	<input type="text" value="G"/>	<input type="text" value="U"/>	Coordinate Ref. Point	<input type="text" value="Cape Datum"/>		
Status	<input type="text" value="Destroyed"/>	<input type="text" value="In Use"/>	<input type="text" value="Unused"/>	Time	<input type="text" value="h"/>	<input type="text" value="Hartbeeshoek Datum"/>	
Altitude	<input type="text" value="mamsl"/>			Site Type	<input type="text" value="B"/>	<input type="text" value="D"/>	<input type="text" value="F"/>
					<input type="text" value="H"/>	<input type="text" value="W"/>	<input type="text" value="Z"/>
					<input type="text" value="hole"/>	<input type="text" value="Well"/>	<input type="text" value="tain"/>
					<input type="text" value="hole"/>	<input type="text" value="Point"/>	<input type="text" value="r"/>
				Site	<input type="text" value="E"/>	<input type="text" value="M"/>	<input type="text" value="O"/>
				Purpose	<input type="text" value="ervation"/>	<input type="text" value="ervation"/>	<input type="text" value="uction"/>
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Manage the abstraction scheme

Ground Water Management Chart



Understand the groundwater system



The National Water Act, Act 36 of 1998.

Need to obtain the right to use water

- Schedule 1 use
- General Authorisation
- Existing lawful use
- Water Use License

GROUNDWATER INDUSTRY IS A CRUTIAL PARTNER IN GROUNDWATER GOVERNANCE:

- Has enormous capacity
- Experience
- Local knowledge
- Innovative
- Can draw on international experience

GROUNDWATER DEVELOPMENT PROJECTS SHOULD INCLUDE:

- Resource evaluation
- Impacts on other users and the environment
- A management plan
- A monitoring programme
- Licensing requirements
- Auditing and compliance