

GHP 1122



HYDROLOGICAL SERVICES
Sub-Directorate: GRAM

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MP

2011-03-11

NATIONAL GROUNDWATER QUALITY MONITORING NETWORK

It is time for the 1st run of the National Groundwater Quality Monitoring Network for 2011.

Please note that we are using a new, more user friendly Field form

For this run we are going to take samples for the following analyses at all the monitoring points.

1 Macro sample – **Blue and white bottle.**

Please note that the samples will not be preserved anymore!!!!!!!

Once again I would like to ask you to note any changes (owners, contact numbers addresses etc.) and deviations of the monitoring point on the field form. If you move a monitoring point to a new point or select a new point please complete one of the blank forms at the back of your field book. If you decide to close a monitoring point, also mark that clearly on the field form and state the reason for closing the point.

Please indicate the EC unit that your instrument reads.

Field books and samples must in future be send to **Shouneez Chaka** because she is the person responsible for the registration of samples on the WMS.

Shouneez's contact details: Tel: 012 – 336 7853

E-mail: wdp@dwa.gov.za

eManzini Building

Room 303

185 Schoeman Street

Pretoria

0001

Thank you for your time and effort with this monitoring network. Please drive safely when you are going to do the monitoring.



ZQMWT1

MP

Geosite Information

NGA Identifier: 2429CD00988 Monitoring Feature Id: 89809

Site Name: PANORAMA PRIMARY SCHOOL 0307

Latitude: -25° 51' 7.99" Longitude: 29° 14' 43.01"

Site Type: Borehole Depth: 100.00 m

Pump Type: Mono Type Pump Pump Depth: 0 m

Equipment:

Owner Information

Name:

Address:

Suburb: Town:

Contact Details:

Arriving At Borehole/Monitoring Point

Is The Pump On? YES NO

Water Level Before The Pump Is Switched On:

Meter Reading Before The Pump Is Switched On:

Sampling

	Temperature	EC	pH	DO	ALK
5 Minutes	19	24.6	7.19		
10 Minutes	19	24.7	7.19		
15 Minutes	19	24.7	7.19		
Final	19	24.7	7.19		

If Field Measurements did not stabilised by now, continue with the next time sheet.

20 Minutes					
40 Minutes					
60 Minutes					
80 Minutes					
100 Minutes					
120 Minutes					

Sampling Date: 2011/04/20 Sampling Time: 08h55

EC Measurement Unit: mS/m mS/cm µS/cm

After Sampling Has Been Completed

Water Level: Meter Reading:

Sampler Information

Name: T. Madman

Rank: CASO Office: 410

MP 2011/04/20



ZQMSAB1

mp

Geosite Information

NGA Identifier	2530BB00024	Monitoring Feature Id	89713
Site Name	SABIE 0000		
Latitude	-25° 5' 39.98"	Longitude	30° 47' 19.00"
Site Type	Spring	Depth	0 m
Pump Type		Pump Depth	0 m
Equipment			

Owner Information

Name			
Address			
Suburb		Town	
Contact Details			

Arriving At Borehole/Monitoring Point

Is The Pump On?	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
Water Level Before The Pump Is Switched On				
Meter Reading Before The Pump Is Switched On				

Sampling

	Temperature	EC	pH	DO	ALK
5 Minutes					
10 Minutes					
15 Minutes					
Final	18	20.1	7.22		

If Field Measurements did not stabilised by now, continue with the next time sheet.

20 Minutes					
40 Minutes					
60 Minutes					
80 Minutes					
100 Minutes					
120 Minutes					

Sampling Date	2011/04/11	Sampling Time	11h50
EC Measurement Unit	mS/m	<input checked="" type="checkbox"/> mS/cm	<input type="checkbox"/> µS/cm

After Sampling Has Been Completed

Water Level		Meter Reading	
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Sampler Information

Name	T. Madhman		
Rank	CNSO	Office	H/O

10722002607



ZQMSEC1

mp

Geosite Information

NGA Identifier: 2629CA00408 Monitoring Feature Id: 89718
 Site Name: SECUNDA KWEKERY 0000
 Latitude: -26° 30' 1.01" Longitude: 29° 13' 17.00"
 Site Type: Borehole Depth: 30.00 m
 Pump Type: Positive Displacement Pump Depth: 0 m
 Equipment:

Owner Information

Name:
 Address:
 Suburb: Town:
 Contact Details:

Arriving At Borehole/Monitoring Point

Is The Pump On? YES NO
 Water Level Before The Pump Is Switched On:
 Meter Reading Before The Pump Is Switched On:

6207420001#1

Sampling

	Temperature	EC	pH	DO	ALK
5 Minutes	18.2	100.2	7.69		
10 Minutes	18.1	99.8	7.69		
15 Minutes	18.1	99.8	7.69		
Final	18.0	99.8	7.69		

If Field Measurements did not stabilised by now, continue with the next time sheet.

20 Minutes					
40 Minutes					
60 Minutes					
80 Minutes					
100 Minutes					
120 Minutes					

Sampling Date: 2011/04/20 Sampling Time: 13:10

EC Measurement Unit: mS/m mS/cm µS/cm

After Sampling Has Been Completed

Water Level: Meter Reading:

Sampler Information

Name: T. Madlana
 Rank: C 1930 Office: 4/0



ZQMRS L2

mp

Geosite Information

NGA Identifier: 2529BB00108 Monitoring Feature Id: 89703

Site Name: MAPOCHSGRONDE GED. RYNFONTEIN 0500

Latitude: -25° 11' 25.98" Longitude: 29° 56' 15.97"

Site Type: Borehole Depth: 80.00 m

Pump Type: Submersible Pump Pump Depth: 0 m

Equipment:

Owner Information

Name: Van Der Merwe, VM

Address:

Suburb: Town:

Contact Details:

Arriving At Borehole/Monitoring Point

Is The Pump On? YES NO

Water Level Before The Pump Is Switched On:

Meter Reading Before The Pump Is Switched On:

Sampling

	Temperature	EC	pH	DO	ALK
5 Minutes	22	65.5	7.39		
10 Minutes	22	65.5	7.38		
15 Minutes	22	65.5	7.38		
Final	22	65.5	7.38		

If Field Measurements did not stabilised by now, continue with the next time sheet.

20 Minutes					
40 Minutes					
60 Minutes					
80 Minutes					
100 Minutes					
120 Minutes					

Sampling Date: 2011/04/19 Sampling Time: 1140

EC Measurement Unit: mS/m mS/cm µS/cm

After Sampling Has Been Completed

Water Level: Meter Reading:

Sampler Information

Name: T. Moduma

Rank: CASO Office: H10

2011/04/19 #1



ZQMMGZ1

mp

Geosite Information

NGA Identifier: 2629DA00356 Monitoring Feature Id: 90100
 Site Name: MORGENZON 0466
 Latitude: -26° 44' 38.00" Longitude: 29° 37' 5.99"
 Site Type: Borehole Depth: 16.00 m
 Pump Type: Submersible Pump Pump Depth: 0 m
 Equipment:

Owner Information

Name: Olivier, DSS
 Address:
 Suburb: Town:
 Contact Details:

Arriving At Borehole/Monitoring Point

Is The Pump On? YES NO
 Water Level Before The Pump Is Switched On:
 Meter Reading Before The Pump Is Switched On:

Sampling

	Temperature	EC	pH	DO	ALK
5 Minutes	17.18	88.7	7.38		
10 Minutes	17.15	87.3	7.36		
15 Minutes	17.15	87.25	7.36		
Final	17.15	87.25	7.37		

If Field Measurements did not stabilised by now, continue with the next time sheet.

20 Minutes					
40 Minutes					
60 Minutes					
80 Minutes					
100 Minutes					
120 Minutes					

Sampling Date: 2011/04/20 Sampling Time: 16h45

EC Measurement Unit: mS/m mS/cm µS/cm

After Sampling Has Been Completed

Water Level: Meter Reading:

Sampler Information

Name: T. Madhuran
 Rank: CASO Office: H/O

17# 00002637



ZQMMHL1

mp

Geosite Information

NGA Identifier: 2429CD00178 Monitoring Feature Id: 90101
 Site Name: LOSKOP NURSERY 0029
 Latitude: -24° 59' 22.99" Longitude: 29° 18' 51.98"
 Site Type: Borehole Depth: 30.00 m
 Pump Type: Mono Type Pump Pump Depth: 0 m
 Equipment:

Owner Information

Name: Greyling, JA
 Address:
 Suburb: Town:
 Contact Details:

Arriving At Borehole/Monitoring Point

Is The Pump On? YES NO
 Water Level Before The Pump Is Switched On:
 Meter Reading Before The Pump Is Switched On:

Sampling

	Temperature	EC	pH	DO	ALK
5 Minutes	24.80	188.7	7.27		
10 Minutes	24.75	188.4	7.25		
15 Minutes	24.7	188.4	7.25		
Final	24.7	188.4	7.24		

M# 100022628

If Field Measurements did not stabilised by now, continue with the next time sheet.

20 Minutes					
40 Minutes					
60 Minutes					
80 Minutes					
100 Minutes					
120 Minutes					

Sampling Date: 2011 04/19 Sampling Time: 09h20
 EC Measurement Unit: mS/m mS/cm µS/cm

After Sampling Has Been Completed

Water Level: Meter Reading:

Sampler Information

Name: T. Moduma
 Rank: CASO Office: 12/0



ZQMMLL2

MP

Geosite Information

NGA Identifier: 2531AD00047 Monitoring Feature Id: 90108

Site Name: MALELANE PTN. BOREHOLE A / SWEA 0389

Latitude: -25° 30' 14.00" Longitude: 31° 30' 22.00"

Site Type: Borehole Depth: 35.00 m

Pump Type: Pump Depth: 0 m

Equipment: Electronic Data Logger

Owner Information

Name: Rodseth, JAH

Address:

Suburb: Town:

Contact Details:

Arriving At Borehole/Monitoring Point

Is The Pump On? YES NO

Water Level Before The Pump Is Switched On:

Meter Reading Before The Pump Is Switched On:

Sampling

	Temperature	EC	pH	DO	ALK
5 Minutes	24.5	82.4	7.4		
10 Minutes	24.5	82.4	7.4		
15 Minutes	24.5	82.4	7.4		
Final	24.5	82.4	7.4		

NH 1000022639

If Field Measurements did not stabilised by now, continue with the next time sheet.

20 Minutes					
40 Minutes					
60 Minutes					
80 Minutes					
100 Minutes					
120 Minutes					

Sampling Date: 2011/04/12 Sampling Time: 16h40

EC Measurement Unit: mS/m mS/cm µS/cm

After Sampling Has Been Completed

Water Level: Meter Reading:

Sampler Information

Name: T Maduma

Rank: CASO Office: H/O



ZQMLYD1

MP

Geosite Information

NGA Identifier: 2530BA00024 Monitoring Feature Id: 90082
 Site Name: POTATO BOARD 0033
 Latitude: -25° 8' 1.00" Longitude: 30° 33' 47.02"
 Site Type: Borehole Depth: 48.00 m
 Pump Type: Pump Depth: 0 m
 Equipment: Electronic Data Logger

Owner Information

Name: _____
 Address: _____
 Suburb: _____ Town: _____
 Contact Details: _____

Arriving At Borehole/Monitoring Point

Is The Pump On? YES NO
 Water Level Before The Pump Is Switched On: _____
 Meter Reading Before The Pump Is Switched On: _____

Sampling

	Temperature	EC	pH	DO	ALK
5 Minutes	17.8	4.03	6.69		
10 Minutes	17.8	4.03	6.69		
15 Minutes	17.8	4.03	6.69		
Final	17.8	4.03	6.69.		

10000001 #11

If Field Measurements did not stabilised by now, continue with the next time sheet.

20 Minutes					
40 Minutes					
60 Minutes					
80 Minutes					
100 Minutes					
120 Minutes					

Sampling Date: 2010/04/11 Sampling Time: 1040

EC Measurement Unit: mS/m mS/cm µS/cm

After Sampling Has Been Completed

Water Level: _____ Meter Reading: _____

Sampler Information

Name: T. Madhavan
 Rank: CASO Office: #/0



ZQMGKP1

-mp

Geosite Information

NGA Identifier: 2430DD00023 Monitoring Feature Id: 90011

Site Name: NEAR NATURAL BRIDGE 0565

Latitude: -24° 55' 17.00" Longitude: 30° 49' 58.01"

Site Type: Spring Depth: 0 m

Pump Type: Pump Depth: 0 m

Equipment:

Owner Information

Name:

Address:

Suburb: Town:

Contact Details:

Arriving At Borehole/Monitoring Point

Is The Pump On? YES NO

Water Level Before The Pump Is Switched On:

Meter Reading Before The Pump Is Switched On:

Sampling

	Temperature	EC	pH	DO	ALK
5 Minutes					
10 Minutes					
15 Minutes					
Final	18.1	6.60	7.30		

If Field Measurements did not stabilised by now, continue with the next time sheet.

20 Minutes					
40 Minutes					
60 Minutes					
80 Minutes					
100 Minutes					
120 Minutes					

Sampling Date: 2011/04/11 Sampling Time: 13h10

EC Measurement Unit: mS/m mS/cm µS/cm

After Sampling Has Been Completed

Water Level: Meter Reading:

Sampler Information

Name: T. Madman

Rank: CASO Office: A/O

1.11.11



ZQMHAZ1

mp

Geosite Information

NGA Identifier: 2530AA00425 Monitoring Feature Id: 90023
 Site Name: NUMBI GARDENS 0015
 Latitude: -25° 3' 56.99" Longitude: 30° 6' 29.02"
 Site Type: Borehole Depth: 40.00 m
 Pump Type: Pump Depth: 0 m
 Equipment: Electronic Data Logger

Owner Information

Name: _____
 Address: _____
 Suburb: _____ Town: _____
 Contact Details: _____

Arriving At Borehole/Monitoring Point

Is The Pump On? YES NO
 Water Level Before The Pump Is Switched On: _____
 Meter Reading Before The Pump Is Switched On: _____

Sampling

	Temperature	EC	pH	DO	ALK
5 Minutes	22.8	61.33	6.80		
10 Minutes	22.6	61.30	6.77		
15 Minutes	22.4	61.30	6.75		
Final	22.3	61.30	6.75		

If Field Measurements did not stabilised by now, continue with the next time sheet.

20 Minutes					
40 Minutes					
60 Minutes					
80 Minutes					
100 Minutes					
120 Minutes					

Sampling Date: 2011/04/13 Sampling Time: 13h15

EC Measurement Unit: mS/m mS/cm µS/cm

After Sampling Has Been Completed

Water Level: _____ Meter Reading: _____

Sampler Information

Name: T. Moolman
 Rank: CASO Office: H/O

629220001 #11



ZQMKMP1

mp

Geosite Information

NGA Identifier: 2531BD00099 Monitoring Feature Id: 90051
 Site Name: KOMATIPOORT MUNICIPALITY 0000
 Latitude: -25° 25' 40.01" Longitude: 31° 57' 29.99"
 Site Type: Borehole Depth: 20.00 m
 Pump Type: Positive Displacement Pump Depth: 0 m
 Equipment:

Owner Information

Name:
 Address:
 Suburb: Town:
 Contact Details:

Arriving At Borehole/Monitoring Point

Is The Pump On? YES NO
 Water Level Before The Pump Is Switched On:
 Meter Reading Before The Pump Is Switched On:

Sampling

	Temperature	EC	pH	DO	ALK
5 Minutes	24	78.70	7.28		
10 Minutes	24	78.70	7.27		
15 Minutes	24	78.70	7.27		
Final	24	78.70	7.27		

If Field Measurements did not stabilised by now, continue with the next time sheet.

20 Minutes					
40 Minutes					
60 Minutes					
80 Minutes					
100 Minutes					
120 Minutes					

NA# 10000 22630

Sampling Date: 20110411 Sampling Time: 09h05

EC Measurement Unit: mS/m mS/cm µS/cm

After Sampling Has Been Completed

Water Level: Meter Reading:

Sampler Information

Name: T. Moolman
 Rank: C 450 Office: H10



ZQMCR1

mp

Geosite Information

NGA Identifier: 2630AA00421 Monitoring Feature Id: 89962
 Site Name: CAROLINA 0000
 Latitude: -26° 5' 30.98" Longitude: 30° 8' 1.00"
 Site Type: Borehole Depth: 0 m
 Pump Type: Positive Displacement Pump Depth: 0 m
 Equipment:

Owner Information

Name: Van Straaten, JJ
 Address:
 Suburb: Town:
 Contact Details:

Arriving At Borehole/Monitoring Point

Is The Pump On? YES NO
 Water Level Before The Pump Is Switched On:
 Meter Reading Before The Pump Is Switched On:

Sampling

	Temperature	EC	pH	DO	ALK
5 Minutes	19.6	23.55	7.54		
10 Minutes	19.3	23.53	7.52		
15 Minutes	19.1	23.50	7.5		
Final	19.1	23.50	7.5		

If Field Measurements did not stabilised by now, continue with the next time sheet.

20 Minutes					
40 Minutes					
60 Minutes					
80 Minutes					
100 Minutes					
120 Minutes					

11/100002223

Sampling Date: 2011/04/14 Sampling Time: 12h05

EC Measurement Unit: mS/m mS/cm µS/cm

After Sampling Has Been Completed

Water Level: Meter Reading:

Sampler Information

Name: T. Modman
 Rank: CASO Office: H/G



ZQMBPS1

MP

Geosite Information

NGA Identifier: 2530DC00171 Monitoring Feature Id: 89918
 Site Name: AVENTURA 0000
 Latitude: -25° 57' 14.00" Longitude: 30° 33' 54.00"
 Site Type: Spring Depth: 0 m
 Pump Type: Pump Depth: 0 m
 Equipment:

Owner Information

Name: Jonk, G
 Address:
 Suburb: Town:
 Contact Details:

Arriving At Borehole/Monitoring Point

Is The Pump On? YES NO
 Water Level Before The Pump Is Switched On:
 Meter Reading Before The Pump Is Switched On:

Sampling

	Temperature	EC	pH	DO	ALK
5 Minutes					
10 Minutes					
15 Minutes					
Final	51.1	62.1	9.20		

If Field Measurements did not stabilised by now, continue with the next time sheet.

20 Minutes					
40 Minutes					
60 Minutes					
80 Minutes					
100 Minutes					
120 Minutes					

Sampling Date: 2011/04/14 Sampling Time: 16h25
 EC Measurement Unit: mS/m mS/cm µS/cm

After Sampling Has Been Completed

Water Level: Meter Reading:

Sampler Information

Name: T. Masluma
 Rank: ASU Office: H10

A# 10002225



ZQMBBT1

mp

Geosite Information

NGA Identifier: 2531CC00013 Monitoring Feature Id: 89876
 Site Name: OOSTERBEEK 0371
 Latitude: -25° 49' 41.02" Longitude: 31° 4' 59.02"
 Site Type: Borehole Depth: 44.50 m
 Pump Type: Pump Depth: 0 m
 Equipment: Electronic Data Logger

Owner Information

Name: Van Rensburg, WJJ
 Address:
 Suburb: Town:
 Contact Details:

Arriving At Borehole/Monitoring Point

Is The Pump On? YES NO
 Water Level Before The Pump Is Switched On:
 Meter Reading Before The Pump Is Switched On:

Sampling

	Temperature	EC	pH	DO	ALK
5 Minutes	18.1	1.11	6.91		
10 Minutes	18.0	1.10	6.91		
15 Minutes	18	1.10	6.91		
Final	18	1.10	6.91		

If Field Measurements did not stabilised by now, continue with the next time sheet.

20 Minutes					
40 Minutes					
60 Minutes					
80 Minutes					
100 Minutes					
120 Minutes					

Sampling Date: 2011/04/12 Sampling Time: 12h55

EC Measurement Unit: mS/m mS/cm µS/cm

After Sampling Has Been Completed

Water Level: Meter Reading:

Sampler Information

Name: T Madhavan Rank: C250 Office: H/10

M#1000025



ZQMTSH2

MP

11/02/11/22
22/7/2011
5152200001 W

Geosite Information

NGA Identifier	2528BB00106	Monitoring Feature Id	89772
Site Name	TSAMAHANSI 0003		
Latitude	-25° 4' 19.09"	Longitude	28° 59' 8.02"
Site Type	Borehole	Depth	80.00 m
Pump Type	Monotype	Pump Depth	0 m
Equipment	Electronic Data Logger		

Owner Information

Name	TSHAMAHANSI COMMUNITY		
Address			
Suburb	TSHAMAHANSI	Town	MOKOPANE
Contact Details			

Arriving At Borehole/Monitoring Point

Is The Pump On?	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>
Water Level Before The Pump Is Switched On	NO ACCESS			
Meter Reading Before The Pump Is Switched On				

Sampling

	Temperature	EC	pH	DO	ALK
5 Minutes	26.7 °C	859 µS	7.56		
10 Minutes	25.6 °C	861 µS	7.52		
15 Minutes	25.6 °C	795 µS	7.54		
Final	24.9 °C	797 µS	7.52		

If Field Measurements did not stabilised by now, continue with the next time sheet.

20 Minutes					
40 Minutes					
60 Minutes					
80 Minutes					
100 Minutes					
120 Minutes					

Sampling Date	7/4/2011	Sampling Time	13:41
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EC Measurement Unit mS/m mS/cm µS/cm

After Sampling Has Been Completed

Water Level	N/A	Meter Reading	
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Sampler Information

Name	ABEL		
Rank	CASO	Office	POLOKWANE