

## What future functionalities can be expected?

- Search functionality
- Spatial viewer
- User will design own Programmes and Networks

## How to get hold of us and register as a user?

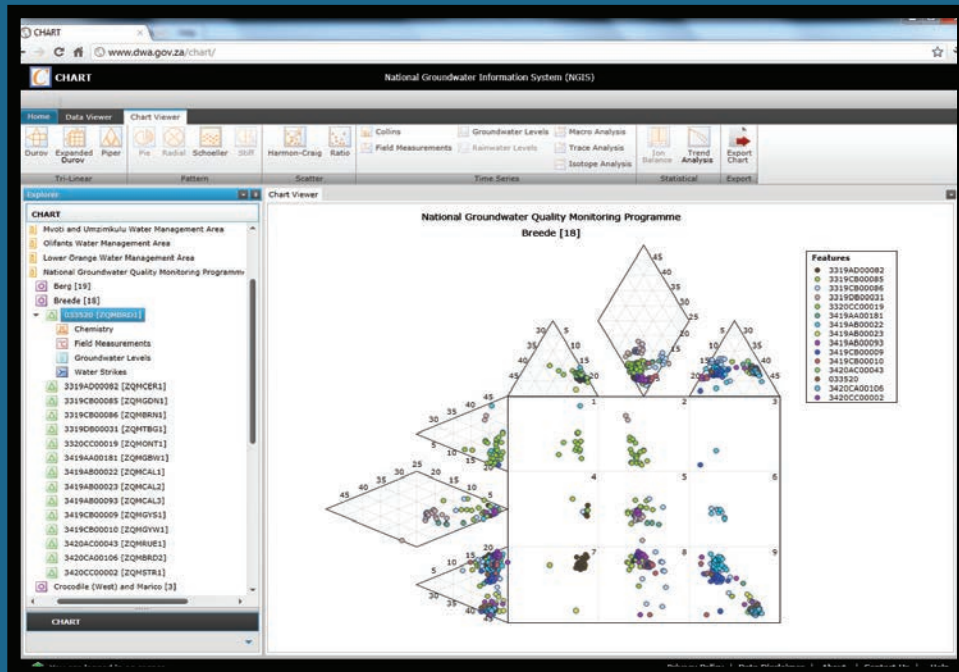
To register go to: <http://www.dwa.gov.za/ngis>

Registered users go to: <http://www.dwa.gov.za/chart>

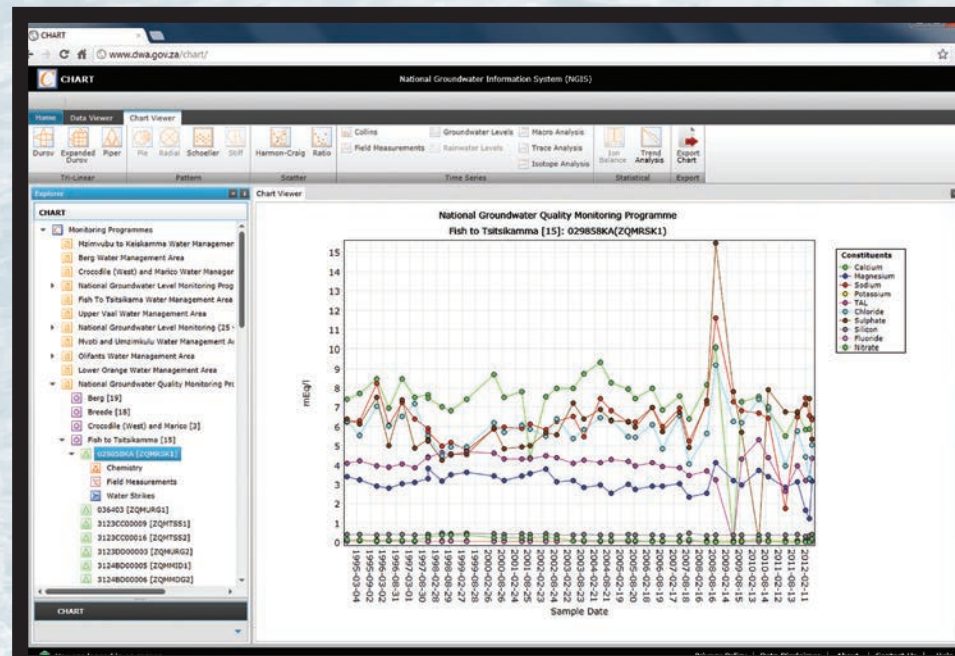
Enquiries: [ngaur@dwa.gov.za](mailto:ngaur@dwa.gov.za)

## Other related links:

Groundwater Website: <http://www.dwa.gov.za/Groundwater>



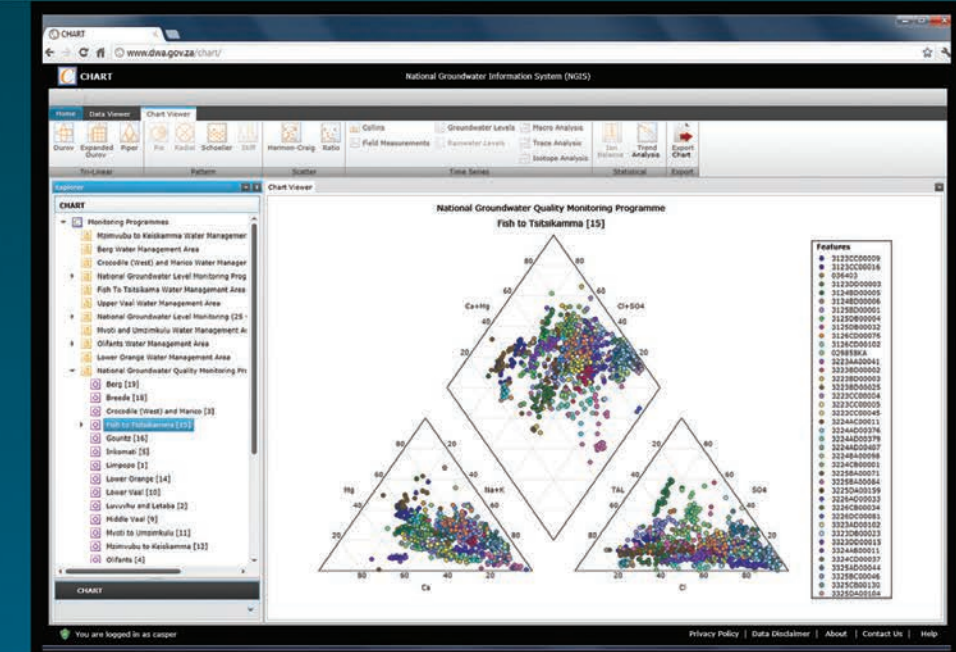
Expanded Durov chart



Macro analysis time series chart

Identifier	Name	Site Type	ZQM Number	G Number	Latitude	Longitude	Elevation	Drainage
3123CC0005	Karee Kloof 0245	Borehole	ZQHTSS1		-31° 53' 57.79"	23° 4' 1.99"	1122.00	L11C
3123CC0016	THREE SISTERS 0244	Borehole	ZQHTSS2		-31° 58' 36.11"	23° 4' 17.00"	1120.00	L11C
036403	MURRAYSBURG PRIMARY SCHOOL 0000	Borehole	ZQHRG1	0036403	-31° 58' 0.91"	23° 45' 42.01"	1180.00	L21E
3122DD0003	HARRAYSBURG PRIMERE SKOOLKOSHUIS 0000	Borehole	ZQHRG2		-31° 58' 0.80"	23° 45' 32.90"	1191.00	L21E
3124BD0005	MIDDELBURG TOEKENKENS GERIE 0000	Borehole	ZQHM101		-31° 59' 5.89"	24° 59' 31.20"	1270.00	Q14B
3124BD0006	THREEPORTEN GED. VLAKONTENY 0011	Spring	ZQHM002		-31° 19' 10.88"	24° 58' 56.21"	1440.00	Q14B
3125BD0001	STEVENSBURG TOWN 0000	Borehole	ZQHTS1		-31° 17' 46.10"	25° 49' 49.69"	1471.00	Q12B
3125BD0004	HOFMEYER TOWN 0000	Borehole	ZQHR1		-31° 39' 11.09"	25° 48' 54.50"	1275.00	Q13A
3125BD0003	PRAM KOPPEN LEEGTE 0000	Borehole	ZQHMFR2		-31° 39' 18.18"	25° 48' 59.83"	1270.00	Q13A
3126CD0003	GOLDEN VALLEY 0129	Borehole	ZQHTAR1		-31° 57' 32.90"	26° 16' 31.48"	1390.00	Q45C
3126CD0007	GOLDEN VALLEY 0129	Borehole	ZQHTAR2		-31° 57' 33.95"	26° 16' 31.48"	1340.00	Q45C
3126CD0010	GOLDEN VALLEY 0129	Borehole	ZQHTAR3		-31° 57' 30.02"	26° 16' 34.18"	1450.00	Q45C
3222BD0026	RHEINOSTERKOP 0155	Borehole	ZQHR5K2		-32° 12' 56.27"	22° 48' 35.57"	963.23	L11F
029858KA	RHEINOSTERKOP 0155	Borehole	ZQHR5K1	0029858KA	-32° 12' 56.99"	22° 49' 4.89"	964.00	L11F
3223AD0041	KLIJKRAAL 0127	Borehole	ZQHR1L1		-32° 2' 21.77"	23° 0' 25.00"	1020.10	L11D
3123BD0002	FARM 94(ABERDEEN) 0094	Borehole	ZQHAB02		-32° 28' 33.82"	23° 48' 21.06"	880.00	N14A
3223BD0003	FARM 94 GED. PERSEVERANCE 0094	Borehole	ZQHAB04		-32° 27' 26.10"	23° 48' 39.20"	883.00	N14A
3223BD0005	FARM 49 PTH. PERSEVERANCE 0000	Borehole	ZQHAB04		-32° 27' 26.75"	23° 48' 39.06"	125.00	N14A
3223CD0004	KAREEKUIL 0029	Borehole	ZQHR7B2		-32° 58' 29.82"	23° 6' 55.04"	820.00	L12C
3223CD0005	KAREEKUIL 0029	Borehole	ZQHR7B3		-32° 58' 29.82"	23° 6' 55.08"	820.00	L12C

Data viewer



The Department of Water Affairs is responsible for Groundwater Information in South Africa. This includes the collection and distribution of all groundwater related data and information products. Adequate groundwater information is paramount, particularly in a dry country such as the Republic of South Africa.

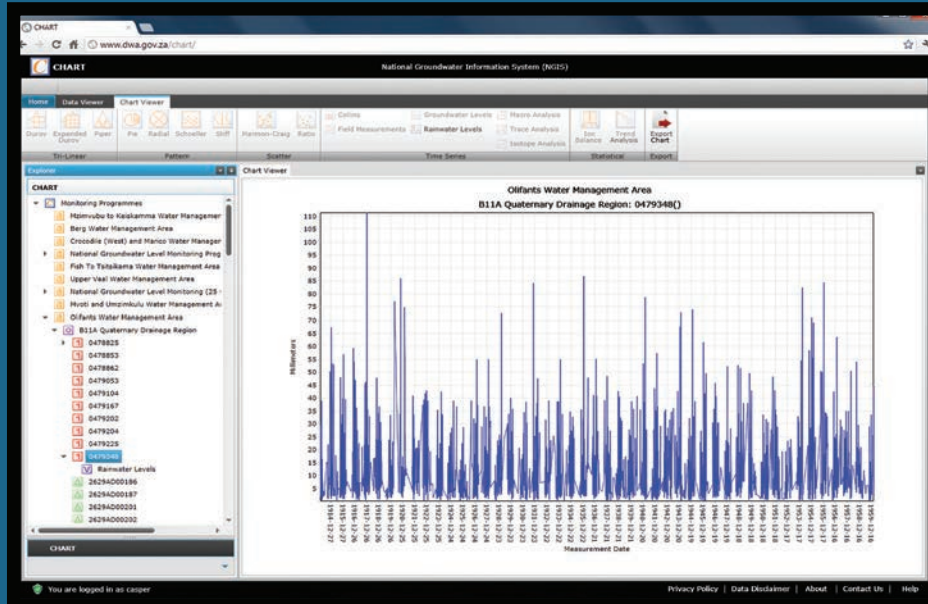
To be able to support strategic development objectives, it is important to analyse and assess the complete hydrogeological cycle and hydrochemical trends in an integrated fashion with collaboration between groundwater, surface water, and meteorological data in a single snapshot or dashboard solution like **CHART**.

The prominent features of **CHART** are depicted in this pamphlet.



**water affairs**  
Department:  
Water Affairs  
REPUBLIC OF SOUTH AFRICA





Rainfall time series chart

## What is CHART?

**CHART** is a web enabled, integrated, hydrogeological analysis and reporting solution that aims to assist hydrogeologists and hydrogeochemists in decision-making during analysis and assessment of hydrogeological and hydrogeochemical data.

## Why CHART?

The DWA has a legal obligation to ensure that water resources (including groundwater) are protected, used, developed, conserved, managed and controlled in a sustainable and equitable manner.

## The National Water Act (NWA) (Act No 36 of 1998), Chapter 14 Part 2

requires the establishment of national monitoring and information systems because the availability of information about water resources is regarded as critical to the main purpose of the NWA. Section 139.2 (a) refers specifically to a national groundwater information system, which translates to the National Groundwater Information Systems (NGIS) Portfolio.

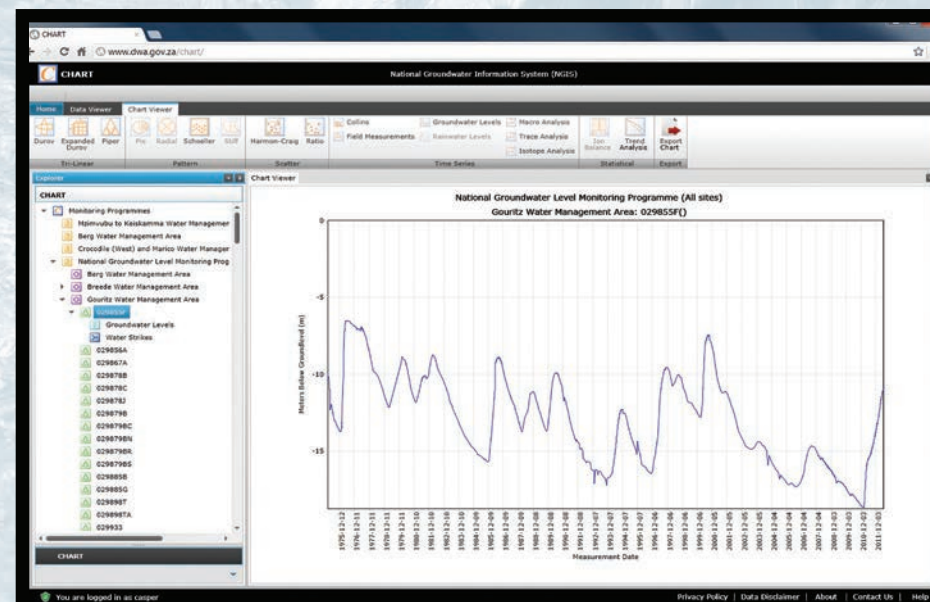
Within the NGIS Portfolio, **CHART** is a solution to analyse and interpret groundwater, surface water, meteorological data and present information for effective groundwater monitoring and decision making.

## What are the benefits of CHART?

- Accessible 24 hours a day
- No license fees
- User-defined data sets made available on request
- Instant plotting of standard and custom-build charts
- Read-only access to data
  - Groundwater features (from National Groundwater Archive (NGA))
  - Water quality (from Water Management System (WMS))
  - Surface and groundwater levels, rainfall measurements (from HYDSTRA)

## What functionalities are currently available?

- Users can export chart images
- Users can export displayed time series data
- Plotting various charts
- Microsoft® Windows and Outlook® style data viewing



Groundwater level time series chart

## What charts are currently available?

Chart Type	Chart Name	Data Plotted
Tri-Linear	Durov	Water quality
	Expanded Durov	Water quality
	Piper	Water quality
Pattern	Pie	Water quality
	Radial	Water quality
	Schoeller	Water quality
	Stiff	Water quality
Scatter	Harmon-Craig	Water quality
	Ratio	Water quality
	Time Series	Water quality
Time Series	Field Measurements	Water quality
	Groundwater Levels	Groundwater measurements
	Rainfall Levels	Rainfall measurements
	Macro Analysis	Water quality
	Trace Analysis	Water quality
Statistical	Isotope Analysis	Water quality
	Ion Balance	Water quality
Trend Analysis	Trend Analysis	Water quality
	Logs	Hydrogeological Log