



water & sanitation

Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA



REVIEW, EVALUATION AND OPTIMISATION OF THE SOUTH AFRICAN WATER RESOURCES MONITORING NETWORK

Network Inventory

VOLUME 2: MAP BOOK

DRAFT

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Obtainable from

Chief Directorate: Water Information Management
Department: Water and Sanitation
Private Bag X313
PRETORIA
0001

PREFACE

The Department of Water and Sanitation (DWS) is the custodian of ten national monitoring programmes. The overall aim of this project is to undertake an evaluation of each monitoring network, in its present condition, and to redesign and realign the network based on scientific analysis and the strategic and management objectives of DWS and of the country as a whole. The water resources monitoring network will be optimised to ensure sustainable, relevant and up-to-date data of an acceptable quality.

This Network Inventory Task focussed on the production of maps to illustrate the spatial distribution of the existing monitoring stations for these ten monitoring programmes. The deliverable from this Network Inventory task, together the User Requirements Task will be used to identify shortcomings in the current networks.

The metadata from each of the ten monitoring networks was analysed and descriptive labels were developed for each station to describe the temporal information (record period), open/closed, completeness, etc.

This task was undertaken by a team of specialists, one for each of the following categories of data:

- Surface water quantity.
- Surface water quality.
- Groundwater levels and quality.
- Biophysical Data
- Hydro-meteorology

This was followed by the development of five thematic maps with information on the spatial distribution of these ten monitoring points per new Water Management Area (WMA) have been compiled. Even though other institutions in South Africa are also collecting surface water, groundwater, Hydro-meteorological, water quality, eco-health, mostly for their own interests and applications, only the Hydro-meteorological networks of ARC and SAWS data were included on these maps since these data are used daily by DWS. Due to an abundance of groundwater stations in a number of WMA's, station numbers, rather than the detailed developed labels, were adopted for labelling the groundwater maps. The detailed groundwater labels are included as Appendix A.

The thematic Maps produced per nine WMAs are as follows:

A2-size maps were developed for the nine new WMAs per data category, as follows:

- 1) Limpopo WMA
- 2) Olifants WMA
- 3) Inkomati-Usuthu WMA
- 4) Pongola-Mtamvuna WMA
- 5) Vaal WMA
- 6) Orange WMA
- 7) Mzimvubu-Tsitskamma WMA
- 8) Breede-Gouritz WMA
- 9) Berg-Olifants WMA.

Other products developed as part of this Task are data catalogues and Google Earth KMZ-coverages which are very useful to the DWS, external users and to the project team during the new network design.

Subsequent to the completion of the Network Inventory and User Requirements tasks, the Data integrity assessment task will continue to determine the quality of the available data.

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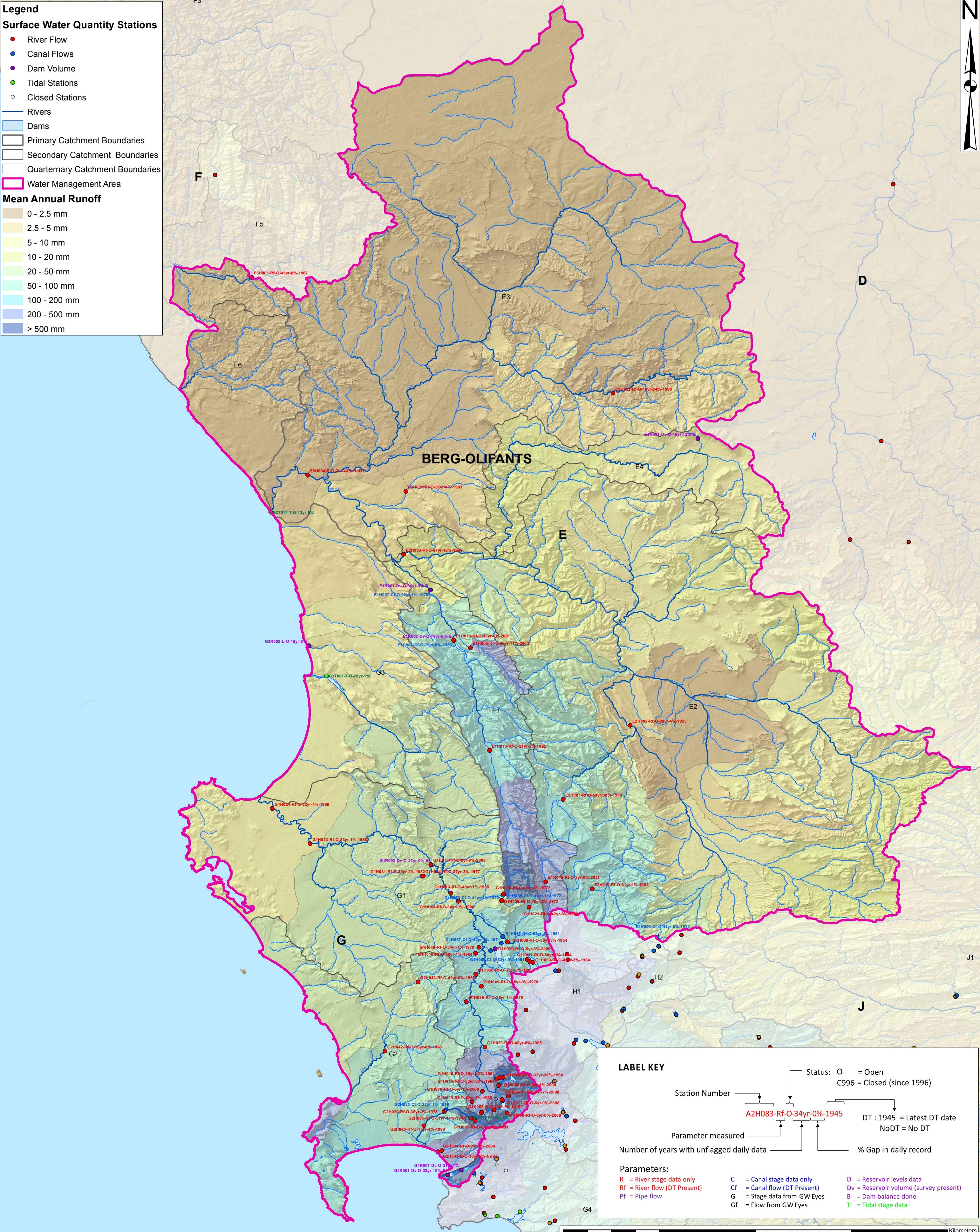
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Appendix A

Detailed Groundwater Level and Quality Monitoring Station Labels

WMA 9:
Berg-Olifants



Project Title: Review, Evaluation and Optimisation of the South African Water Resources Monitoring Network

Scale 1:1 000 000
(When page size is: A2 portrait)

Figure 9.1

Map Title: WMA 9 - Berg-Olifants: Surface Water Quantity Monitoring Stations

Whilst every care has been taken in compiling the information on this map, AECOM cannot accept responsibility for any inaccuracies.

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DWS: Water Information Management
Water Resources of South Africa 2005 (WRC)



Legend

Surface Water Quality Stations

- River Flow
- Dam Volume
- Canal Flows
- Groundwater Eyes
- Tidal Stations
- Closed
- Rivers
- Dams
- Primary Catchment Boundaries
- Secondary Catchment Boundaries
- Quarternary Catchment Boundaries
- Water Management Area

Mean Annual Runoff

- | |
|--------------|
| 0 - 2.5 mm |
| 2.5 - 5 mm |
| 5 - 10 mm |
| 10 - 20 mm |
| 20 - 50 mm |
| 50 - 100 mm |
| 100 - 200 mm |
| 200 - 500 mm |
| > 500 mm |



Project Title:	Review, Evaluation and Optimisation of the South African Water Resources Monitoring Network
Map Title:	WMA 9 - Berg-Olifants: Surface Water Quality Monitoring Stations

Whilst every care has been taken in compiling the information on this map, AECOM cannot accept responsibility for any inaccuracies.

Scale 1:1 000 000
(When page size is: A2 portrait)

Figure 9.2

Projection:
Datum: Hartebeesthoek 1994

Compiled By: LC Gallagher
GIS QC By: M Storie - PGP 0124
Approved By: E Van Niekerk
Date Saved: 2015/03/17
Project Number: 60326707
Map Ref: SW_Quality_Berg_Olifants_A2P.mxd
Revision: 01

Sources:
DWS: Water Information Management
Water Resources of South Africa 2005 (WRC)



Legend

- Rainfall Open
- Rainfall Closed
- Groundwater

Groundwater Levels Stations

- Open
- Closed

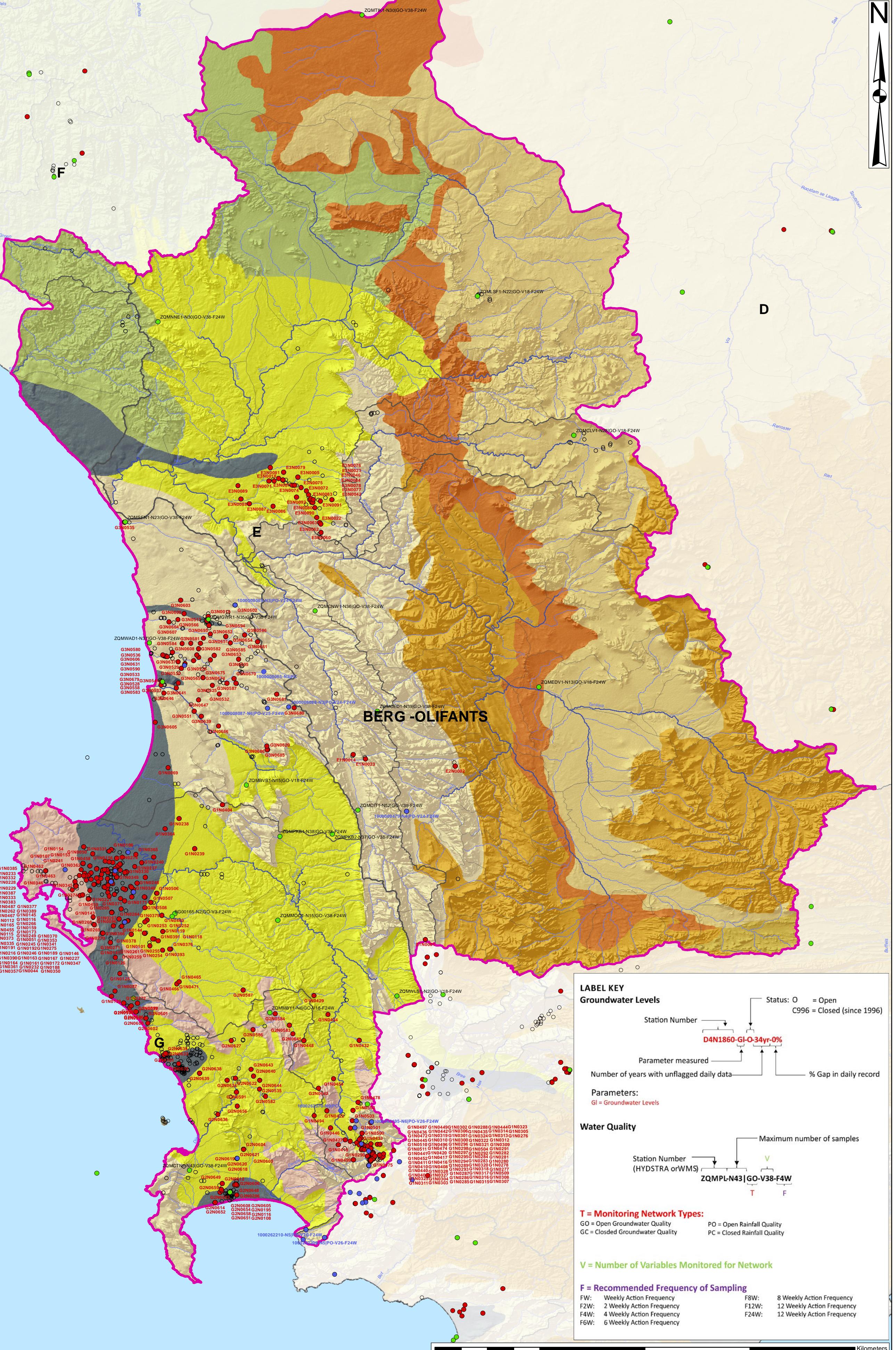
Rivers

- Primary Catchment Boundaries
- Secondary Catchment Boundaries
- Quaternary Catchment Boundaries

Water Management Areas

Simplified Geology (WR90)

- Undifferentiated assemblage of compact sedimentary extrusive and intrusive rocks
- Intercalated assemblage of compact sedimentary and intrusive rocks
- Compact sedimentary strata
- Porous unconsolidated and consolidated sedimentary strata
- Tillite
- Assemblage of tillite and shale
- Assemblage of tillite, shale and sandstone
- Principally arenaceous strata
- Principally argillaceous strata
- Intercalated arenaceous and argillaceous strata
- Dolomite and limestone
- Acid and intermediate lavas
- Basic / Mafic lavas
- Acid and intermediate extrusives
- Basic / Mafic and ultramafic intrusives



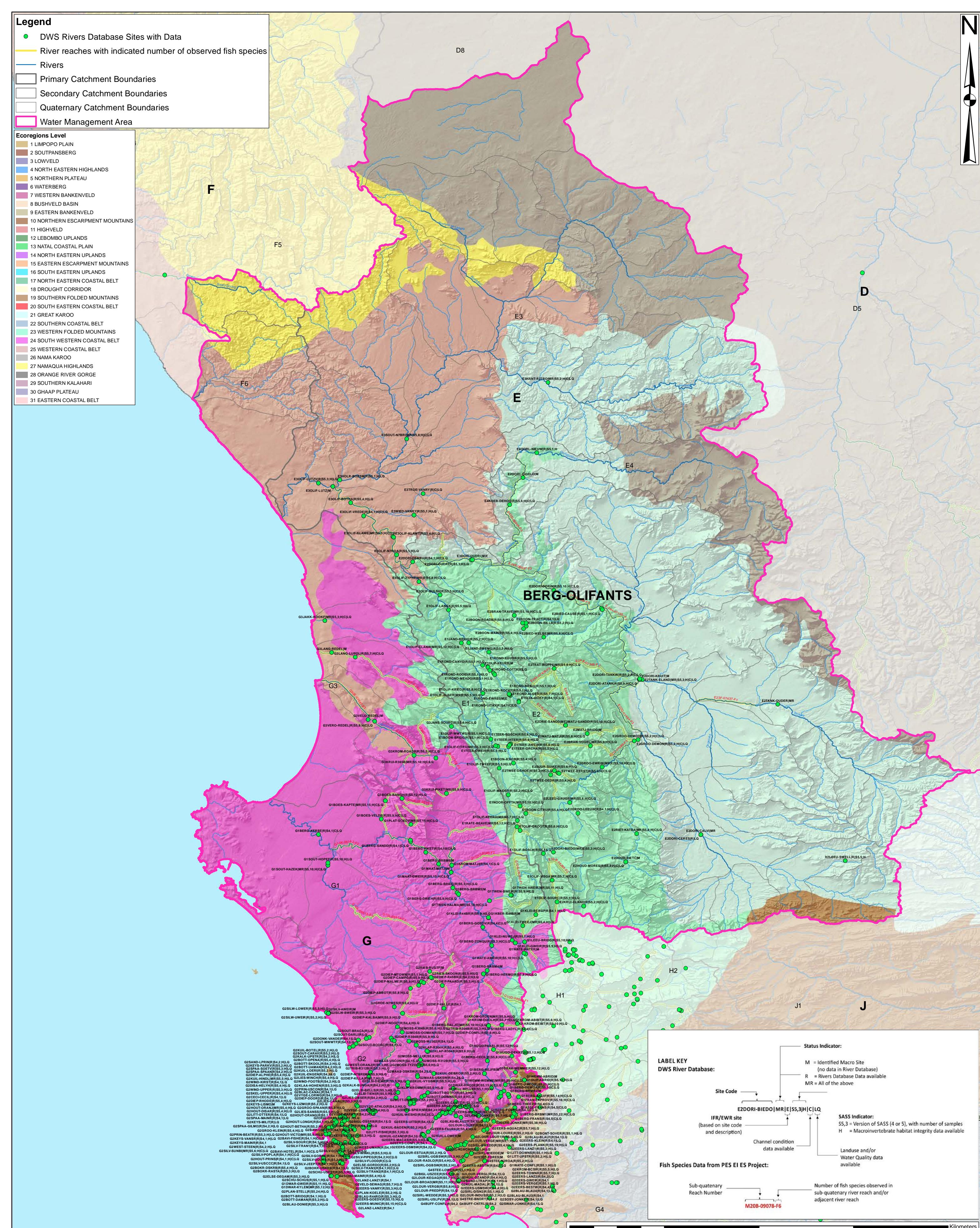
Project Title:	Review, Evaluation and Optimisation of the South African Water Resources Monitoring Network
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Figure 9.3

Projection: Geographic
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GIS QC By: M Storie - PGP 0124
Approved By: E Van Niekerk
Date Saved: 2015/03/16
Project Number: 60326707
Map Ref: GWQuality_Berg_Olifants_A2P.mxd
Revision: 01

Sources:
DWS: Water Information Management
Water Resources of South Africa 2005 (WRC)





Project Title: Review, Evaluation and Optimisation of the South African Water Resources Monitoring Network

Scale 1:1 000 000
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Figure 9.5

APPENDIX A:
Detailed Groundwater Level and Quality
Monitoring Station Labels

WMA 9: Berg-Olifants

WMA 9: Berg-Olivants-Groundwater Level and Quality Monitoring Stations

Station	Name	Catchment	Province	Label
G2N0622	Farm 1420 Ptn Draaihoek	G21D	WC	G2N0622-GI-O-12yrs-0%
G2N0624	Philadelphia Ptn Sportgrounds	G21D	WC	G2N0624-GI-O-12yrs-0%
G2N0627	Groen Rivier Outspan 759	G21D	WC	G2N0627-GI-O-13yrs-0%
G1N0432	Lupinvale Ptn Lupinvale	G10D	WC	G1N0432-GI-O-11yrs-0%
G1N0434	Mallerug Ptn Malrug	G10D	WC	G1N0434-GI-O-11yrs-0%
G1N0448	Boschjesmansfontein Ptn Boesmansfontein	G10D	WC	G1N0448-GI-O-11yrs-0%
G1N0454	St Martin Annex Ptn St John	G10D	WC	G1N0454-GI-O-11yrs-0%
G2N0642	Onverwacht Ptn Onverwacht	G10D	WC	G2N0642-GI-O-11yrs-0%
G2N0101	Buffels Rivier	G21B	WC	G2N0101-GI-O-37yrs-0%
G2N0633	Buffels Rivier	G21B	WC	G2N0633-GI-O-28yrs-0%
G2N0634	Buffels Rivier	G21B	WC	G2N0634-GI-O-12yrs-0%
G2N0635	Witzand	G21B	WC	G2N0635-GI-O-11yrs-0%
G2N0638	Brakke Fontein Ptn Proposed Atlantis Landfill Site	G21B	WC	G2N0638-GI-O-9yrs-0%
G2N0639	KALBASKRAAL PROPOSED LANDFILL SITE	G21B	WC	G2N0639-GI-O-9yrs-0%
G1N0500	Zachariashoek ptn MTO Forestry	G10B	WC	G1N0500-GI-O-6yrs-0%
G1N0501	Winterhoek	G10B	WC	G1N0501-GI-O-6yrs-0%
G2N0603	Bellville Allotment Portion Regional Office	G22C	WC	G2N0603-GI-O-13yrs-9%
G2N0604	Bellville Allotment Portion Regional Office	G22C	WC	G2N0604-GI-O-10yrs-2%
G2N0618	University Of Western Cape Campus	G22C	WC	G2N0618-GI-O-13yrs-0%
G2N0619	University Of Western Cape Campus	G22C	WC	G2N0619-GI-O-11yrs-0%
G2N0620	University Of Western Cape Campus	G22C	WC	G2N0620-GI-O-12yrs-1%
G2N0621	Bellville Allotment Portion Regional Office	G22C	WC	G2N0621-GI-O-14yrs-0%
G1N0276	Robertsvallei Saddle	G10A	WC	G1N0276-GI-O-10yrs-0%
G1N0277	Robertsvallei Saddle	G10A	WC	G1N0277-GI-O-10yrs-0%
G1N0278	Robertsvallei Saddle	G10A	WC	G1N0278-GI-O-10yrs-0%
G1N0280	Robertsvallei Saddle	G10A	WC	G1N0280-GI-O-10yrs-0%
G1N0281	Robertsvallei Saddle	G10A	WC	G1N0281-GI-O-10yrs-0%
G1N0282	Robertsvallei Saddle	G10A	WC	G1N0282-GI-O-7yrs-0%
G1N0283	Robertsvallei Saddle	G10A	WC	G1N0283-GI-O-10yrs-0%
G1N0284	Robertsvallei Saddle	G10A	WC	G1N0284-GI-O-10yrs-0%
G1N0285	Robertsvallei Saddle	G10A	WC	G1N0285-GI-O-10yrs-0%
G1N0286	Robertsvallei Saddle	G10A	WC	G1N0286-GI-O-10yrs-0%
G1N0287	Robertsvallei Saddle	G10A	WC	G1N0287-GI-O-10yrs-0%
G1N0288	Robertsvallei Saddle	G10A	WC	G1N0288-GI-O-10yrs-0%
G1N0289	Robertsvallei Saddle	G10A	WC	G1N0289-GI-O-10yrs-0%
G1N0290	Berg Rivers Hoek	G10A	WC	G1N0290-GI-O-11yrs-0%
G1N0291	Robertsvallei Allotment	G10A	WC	G1N0291-GI-O-10yrs-0%
G1N0292	Robertsvallei Allotment	G10A	WC	G1N0292-GI-O-10yrs-0%
G1N0293	Robertsvallei Allotment	G10A	WC	G1N0293-GI-O-10yrs-0%
G1N0294	Robertsvallei Allotment	G10A	WC	G1N0294-GI-O-10yrs-0%
G1N0295	Robertsvallei Allotment	G10A	WC	G1N0295-GI-O-10yrs-0%
G1N0296	Robertsvallei Allotment	G10A	WC	G1N0296-GI-O-10yrs-0%
G1N0297	Robertsvallei Allotment	G10A	WC	G1N0297-GI-O-10yrs-0%
G1N0298	Robertsvallei Allotment	G10A	WC	G1N0298-GI-O-10yrs-0%
G1N0300	Robertsvallei Allotment	G10A	WC	G1N0300-GI-O-10yrs-0%
G1N0301	Robertsvallei Allotment	G10A	WC	G1N0301-GI-O-10yrs-0%
G1N0302	Robertsvallei Allotment	G10A	WC	G1N0302-GI-O-10yrs-0%
G1N0303	Robertsvallei Allotment	G10A	WC	G1N0303-GI-O-7yrs-0%
G1N0304	Robertsvallei Allotment	G10A	WC	G1N0304-GI-O-10yrs-0%
G1N0305	Roberts Valley Ptn Keisersdrift	G10A	WC	G1N0305-GI-O-10yrs-0%
G1N0306	Roberts Valley Ptn Glenwood	G10A	WC	G1N0306-GI-O-10yrs-0%
G1N0307	Roberts Valley Ptn Dassenberg	G10A	WC	G1N0307-GI-O-8yrs-0%
G1N0308	Franschhoek Forest Reserve Ptn Robertsvallei	G10A	WC	G1N0308-GI-O-8yrs-0%
G1N0309	Keyserdrift Ptn Roberts River	G10A	WC	G1N0309-GI-O-8yrs-0%
G1N0310	Keyserdrift Ptn La Motte Forest Station	G10A	WC	G1N0310-GI-O-10yrs-0%
G1N0311	Robertsvallei Saddle	G10A	WC	G1N0311-GI-O-10yrs-0%
G1N0312	Franschhoek Forest Reserve	G10A	WC	G1N0312-GI-O-10yrs-0%
G1N0313	Franschhoek Forest Reserve	G10A	WC	G1N0313-GI-O-10yrs-0%
G1N0314	Franschhoek Forest Reserve	G10A	WC	G1N0314-GI-O-8yrs-0%
G1N0315	Franschhoek Forest Reserve	G10A	WC	G1N0315-GI-O-10yrs-0%
G1N0316	Franschhoek Forest Reserve	G10A	WC	G1N0316-GI-O-10yrs-0%
G1N0317	Franschhoek Forest Reserve Ptn Die Vlakte	G10A	WC	G1N0317-GI-O-10yrs-0%
G1N0318	Franschhoek Forest Reserve Ptn Skuifraam	G10A	WC	G1N0318-GI-O-10yrs-0%
G1N0319	Keyserdrift	G10A	WC	G1N0319-GI-O-8yrs-0%
G1N0320	Franschhoek Forest Reserve	G10A	WC	G1N0320-GI-O-10yrs-0%
G1N0321	Franschhoek Forest Reserve	G10A	WC	G1N0321-GI-O-10yrs-0%
G1N0322	Bellegam Ptn Bo-Waterval	G10A	WC	G1N0322-GI-O-10yrs-0%
G1N0324	Franschhoek Forest Reserve Ptn Die Vlakte	G10A	WC	G1N0324-GI-O-10yrs-0%
G1N0325	Robertsvallei Saddle	G10A	WC	G1N0325-GI-O-10yrs-0%
G1N0327	Robertsvallei Saddle	G10A	WC	G1N0327-GI-O-10yrs-0%
G1N0328	Robertsvallei Saddle	G10A	WC	G1N0328-GI-O-10yrs-0%
G1N0408	Robertsvallei Allotment	G10A	WC	G1N0408-GI-O-8yrs-0%
G1N0409	Robertsvallei Allotment	G10A	WC	G1N0409-GI-O-8yrs-0%

WMA 9: Berg-Olivants-Groundwater Level and Quality Monitoring Stations

Station	Name	Catchment	Province	Label
G1N0410	Robertsvallei Allotment	G10A	WC	G1N0410-GI-O-7yrs-0%
G1N0411	Robertsvallei Allotment	G10A	WC	G1N0411-GI-O-8yrs-0%
G1N0416	Roberts Valley Ptn Glenwood	G10A	WC	G1N0416-GI-O-8yrs-0%
G1N0417	Roberts Valley	G10A	WC	G1N0417-GI-O-8yrs-0%
G1N0420	Roberts Valley Ptn Champagne	G10A	WC	G1N0420-GI-O-11yrs-0%
G1N0433	Moddervalley Ptn La Tramontane	G10A	WC	G1N0433-GI-O-11yrs-0%
G1N0435	La Motte Annex Ptn Moreson	G10A	WC	G1N0435-GI-O-10yrs-0%
G1N0436	La Motte Ptn Welgelegen	G10A	WC	G1N0436-GI-O-11yrs-0%
G1N0440	Roberts Valley Ptn Klein Champagne	G10A	WC	G1N0440-GI-O-11yrs-0%
G1N0441	Roberts Valley Ptn La Dauphine	G10A	WC	G1N0441-GI-O-11yrs-0%
G1N0442	Roberts Valley Ptn La Caronne	G10A	WC	G1N0442-GI-O-11yrs-0%
G1N0444	Moddervalley Ptn Moddervlei	G10A	WC	G1N0444-GI-O-11yrs-0%
G1N0445	La Terra De Luc Ptn Steinmetz Arabians	G10A	WC	G1N0445-GI-O-11yrs-0%
G1N0449	Roberts Valley Ptn Champagne	G10A	WC	G1N0449-GI-O-11yrs-0%
G1N0452	Roberts Valley Ptn Robertsvallei	G10A	WC	G1N0452-GI-O-11yrs-0%
G1N0472	CAPE VUE GUEST HOUSE	G10A	WC	G1N0472-GI-O-5yrs-0%
G1N0474	MORESON	G10A	WC	G1N0474-GI-O-5yrs-0%
G1N0475	Robertsvallei Allotment	G10A	WC	G1N0475-GI-O-7yrs-0%
G1N0496	Dennegeur ptn 3	G10A	WC	G1N0496-GI-O-6yrs-0%
G1N0497	La Terra de Lu ptn La Vie da Luc	G10A	WC	G1N0497-GI-O-6yrs-0%
G1N0499	FRANSCHHOEK HOTEL	G10A	WC	G1N0499-GI-O-5yrs-0%
G1N0509	FRANSCHHOEK FOREST RESERVE	G10A	WC	G1N0509-GI-O-5yrs-0%
G1N0510	ROBERTSVALLEI	G10A	WC	G1N0510-GI-O-5yrs-0%
G1N0511	FRANSCHHOEK FOREST RESERVE	G10A	WC	G1N0511-GI-O-5yrs-0%
G2N0535	Vryheid 51	G21E	WC	G2N0535-GI-O-16yrs-0%
G2N0582	Kliprug 942	G21E	WC	G2N0582-GI-O-16yrs-0%
G2N0640	Munniks Dam Ptn Sandmine	G21E	WC	G2N0640-GI-O-4yrs-0%
G2N0643	Munniks Dam Ptn Wintervogel Syllyn	G21E	WC	G2N0643-GI-O-8yrs-0%
G2N0644	Klein Wolwedans Ptn Kleinwolwedans	G21E	WC	G2N0644-GI-O-7yrs-0%
G2N0591	Adderley 66	G21F	WC	G2N0591-GI-O-16yrs-0%
G2N0636	Vissershok Ptn Vissershok	G21F	WC	G2N0636-GI-O-9yrs-0%
G2N0656	WELGEGUND	G21F	WC	G2N0656-GI-O-4yrs-0%
G1N0323	Jerico Ptn Protea Park	G10C	WC	G1N0323-GI-O-10yrs-0%
G1N0419	Boschendal Ptn Boschendal	G10C	WC	G1N0419-GI-O-10yrs-0%
G1N0422	Diamant Ptn Diamant	G10C	WC	G1N0422-GI-O-9yrs-0%
G1N0427	Deltameer Ptn Groot Drakenstein Games Club	G10C	WC	G1N0427-GI-O-11yrs-0%
G1N0446	Uitkomst Ptn Uitkomst	G10C	WC	G1N0446-GI-O-11yrs-0%
G1N0478	GOEDEHOOP	G10C	WC	G1N0478-GI-O-5yrs-0%
G1N0494	OMURAMBA PTN JOIE DE VIVRE GUESTHOUSE	G10C	WC	G1N0494-GI-O-5yrs-0%
G1N0502	Lustigan annex ptn avondale	G10C	WC	G1N0502-GI-O-6yrs-0%
G1N0503	MTO Forestry	G10C	WC	G1N0503-GI-O-5yrs-0%
G1N0504	La Paris estates ptn Freedom Hill	G10C	WC</	

WMA 9 - Berg-Olfants: Groundwater Level and Quality Monitoring Stations

Station	Name	Catchment	Province	Label
E3N0005	Van Rhynsdorp Toekenningsgebied	E33F	WC	E3N0005-GI-O-34yrs-0%
E3N0018	TROE TROE	E33F	WC	E3N0018-GI-O-35yrs-0%
E3N0022	MATSIEKAMMA PTN KUILLEN	E33F	WC	E3N0022-GI-O-1yrs-0%
E3N0023	RONDERUG PTN NUWEPLAAS	E33F	WC	E3N0023-GI-O-36yrs-0%
E3N0042	VANRHYNSDORP ERF 702	E33F	WC	E3N0042-GI-O-8yrs-0%
E3N0046	RASKRAAL	E33F	WC	E3N0046-GI-O-12yrs-0%
E3N0060	RONDERUG HOOGTENS	E33F	WC	E3N0060-GI-O-15yrs-0%
E3N0062	MATSIEKAMMA PTN KUILLEN	E33F	WC	E3N0062-GI-O-8yrs-0%
E3N0063	MATSIEKAMMA PTN TIERKLOOF	E33F	WC	E3N0063-GI-O-16yrs-0%
E3N0070	TROE TROE	E33F	WC	E3N0070-GI-O-35yrs-0%
E3N0071	FARM 246	E33F	WC	E3N0071-GI-O-34yrs-0%
E3N0072	RONDERUG PORTION NUWEPOS	E33F	WC	E3N0072-GI-O-16yrs-1%
E3N0074	RASKRAAL	E33F	WC	E3N0074-GI-O-8yrs-0%
E3N0075	RONDERUG PTN NUWEPOS	E33F	WC	E3N0075-GI-O-12yrs-0%
E3N0076	RONDERUG PTN URIONSKRALAAL	E33F	WC	E3N0076-GI-O-8yrs-0%
E3N0077	RONDERUG	E33F	WC	E3N0077-GI-O-8yrs-0%
E3N0078	ANNEX RONDERUG	E33F	WC	E3N0078-GI-O-15yrs-1%
E3N0079	RASKRAAL	E33F	WC	E3N0079-GI-O-8yrs-0%
E3N0080	RONDERUG	E33F	WC	E3N0080-GI-O-16yrs-0%
E3N0081	DUINEN PTN GYPROC	E33F	WC	E3N0081-GI-O-8yrs-0%
E3N0083	RONDERUG PTN NUWEPLAAS	E33F	WC	E3N0083-GI-O-14yrs-0%
E3N0084	RONDERUG PTN UITVLUG	E33F	WC	E3N0084-GI-O-8yrs-0%
E3N0090	RONDERUG PTN BOTTERVLEI	E33F	WC	E3N0090-GI-O-7yrs-0%
E3N0091	KLIPFONTEIN A PTN DIEPVLEI	E33F	WC	E3N0091-GI-O-7yrs-12%
E3N0092	RONDERUG	E33F	WC	E3N0092-GI-O-36yrs-2%
E3N0086	WIDOUW PTN ZANDKRALAAL	E33G	WC	E3N0086-GI-O-8yrs-0%
E3N0087	VADERLANDSCHE RIETKUIL PTN ATIES	E33G	WC	E3N0087-GI-O-8yrs-0%
E3N0088	VADERLANDSCHE RIETKUIL	E33G	WC	E3N0088-GI-O-8yrs-0%
E3N0089	ATIES EXTENSION PTN BBP GYPSUM	E33G	WC	E3N0089-GI-O-36yrs-0%
G3N0535	Hollebakstrandfontein Ged Strandfontein	G30	WC	G3N0535-GI-O-19yrs-0%
G3N0603	Rode Klip Heuvel	G30G	WC	G3N0603-GI-O-11yrs-0%
G3N0018	Rodeklipheuvel	G30	WC	G3N0018-GI-O-25yrs-0%
G3N0517	Rodeklipheuvel	G30	WC	G3N0517-GI-O-24yrs-0%
G3N0566	Surfountain C	G30	WC	G3N0566-GI-O-10yrs-11%
G3N0586	Bueroskraal	G30G	WC	G3N0586-GI-O-11yrs-0%
G3N0594	Rietfontein	G30G	WC	G3N0594-GI-O-11yrs-2%
G3N0602	Skerpdraai	G30G	WC	G3N0602-GI-O-11yrs-0%
G3N0604	Kookfontein Ged Langdam	G30G	WC	G3N0604-GI-O-10yrs-0%
G3N0609	Kookfontein	G30	WC	G3N0609-GI-O-23yrs-2%
G3N0651	Sandveld Graafwater	G30	WC	G3N0651-GI-O-8yrs-0%
G3N0652	Sandveld Graafwater	G30	WC	G3N0652-GI-O-9yrs-0%
G3N0653	Rietfontein	G30F	WC	G3N0653-GI-O-9yrs-0%
G3N0654	Bueroskraal	G30G	WC	G3N0654-GI-O-9yrs-0%
G3N0661	Vogelfontein 98	G30G	WC	G3N0661-GI-O-9yrs-0%
G3N0695	Rodeklipheuvel	G30	WC	G3N0695-GI-O-6yrs-0%
G3N0525	Plaas 237	G30	WC	G3N0525-GI-O-11yrs-4%
G3N0526	Klein Klipheuvel 229	G30	WC	G3N0526-GI-O-20yrs-0%
G3N0528	Klein Klipheuvel	G30	WC	G3N0528-GI-O-12yrs-2%
G3N0529	Klein Klipheuvel	G30	WC	G3N0529-GI-O-22yrs-0%
G3N0530	Louws Klipheuvel	G30	WC	G3N0530-GI-O-22yrs-0%
G3N0532	Plaas 237	G30	WC	G3N0532-GI-O-18yrs-0%
G3N0533	Klein Klipheuvel	G30	WC	G3N0533-GI-O-40yrs-0%
G3N0536	Wagendrift 230	G30G	WC	G3N0536-GI-O-15yrs-0%
G3N0541	Graawe Dynen	G30	WC	G3N0541-GI-O-11yrs-0%
G3N0558	Modderfontein Ptn. Leipoldville	G30	WC	G3N0558-GI-O-12yrs-0%
G3N0580	Rietfontein	G30F	WC	G3N0580-GI-O-11yrs-0%
G3N0581	Rietfontein	G30F	WC	G3N0581-GI-O-11yrs-0%
G3N0582	Modderfontein	G30F	WC	G3N0582-GI-O-11yrs-0%
G3N0583	Modderfontein	G30F	WC	G3N0583-GI-O-11yrs-5%
G3N0584	Modderfontein	G30F	WC	G3N0584-GI-O-11yrs-0%
G3N0585	Modderfontein	G30F	WC	G3N0585-GI-O-11yrs-0%
G3N0587	Farm 238	G30F	WC	G3N0587-GI-O-11yrs-0%
G3N0590	Modderfontein	G30F	WC	G3N0590-GI-O-11yrs-0%
G3N0595	Brandenburg	G30F	WC	G3N0595-GI-O-11yrs-0%

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Station	Name	Catchment	Province	Label
G3N0606	Modderfontein 225	G30F	WC	G3N0606-GI-O-10yrs-0%
G3N0607	Brandwacht	G30	WC	G3N0607-GI-O-10yrs-0%
G3N0608	Brandwacht	G30	WC	G3N0608-GI-O-10yrs-0%
G3N0631	Wagendrift	G30G	WC	G3N0631-GI-O-9yrs-6%
G3N0637	Wagendrift 230	G30F	WC	G3N0637-GI-O-10yrs-0%
G3N0670	Brandenburg	G30F	WC	G3N0670-GI-O-9yrs-0%
G3N0674	Aan De Klipheuvel	G30F	WC	G3N0674-GI-O-9yrs-0%
G3N0675	Aan De Klipheuvel	G30	WC	G3N0675-GI-O-9yrs-0%
G3N0679	Drooge Rivier	G30	WC	G3N0679-GI-O-11yrs-0%
G3N0681	Groot Alexanders Hoek	G30F	WC	G3N0681-GI-O-9yrs-0%
G3N0537	Bonte Heuwel	G30E	WC	G3N0537-GI-O-19yrs-0%
G3N0551	Groote Drift	G30	WC	G3N0551-GI-O-18yrs-0%
G3N0565	Bonteheuvel	G30	WC	G3N0565-GI-O-27yrs-0%
G3N0639	Bonteheuvel Ptn Klaarfontein	G30E	WC	G3N0639-GI-O-9yrs-0%
G3N0641	Bonteheuvel Ptn Nuwerus	G30E	WC	G3N0641-GI-O-13yrs-0%
G3N0646	Verloren Vlei	G30E	WC	G3N0646-GI-O-9yrs-0%
G3N0647	Bonteheuvel	G30E	WC	G3N0647-GI-O-9yrs-0%
G3N0666	Wittedrift Ptn Schuur Drift	G30E	WC	G3N0666-GI-O-9yrs-0%
G1N0069	Klipfontein	G30A	WC	G1N0069-GI-O-29yrs-0%
G3N0605	Brakke Kuil Ptn Nuwedam	G30A	WC	G3N0605-GI-O-12yrs-0%
E1N0014	Keerom Ptn Tharak Khama	E10F	WC	E1N0014-GI-O-9yrs-0%
G3N0620	Bergvalley Ptn Somergroen	G30C	WC	G3N0620-GI-O-8yrs-0%
G3N0680	Looprivier A Ptn Swartberg Farm	G30	WC	G3N0680-GI-O-9yrs-0%
G3N0685	Bergvallei Ptn Somergroen	G30C	WC	G3N0685-GI-O-9yrs-0%
G3N0686	Bergvallei 408	G30C	WC	G3N0686-GI-O-9yrs-0%
E1N0023	Boschklloof	E10E	WC	E1N0023-GI-O-9yrs-0%
E2N0002	Vogelfontein	E21J	WC	E2N0002-GI-O-2yrs-0%
G1N0239	Harde Valley 134	G10	WC	G1N0239-GI-O-27yrs-0%
G1N0404	Groot Plaat Ptn Misty Mountain	G10K	WC	G1N0404-GI-O-8yrs-0%
G1N0044	Brakfontein Gedeelte Spanjaard	G10	WC	G1N0044-GI-O-33yrs-0%
G1N0050	Kleineberg	G10M	WC	G1N0050-GI-O-33yrs-0%
G1N0051	Waschklip	G10	WC	G1N0051-GI-O-13yrs-0%
G1N0096	Kalkklipfontein 995	G10M	WC	G1N0096-GI-O-29yrs-0%
G1N0106	Cloetes Kraal 92	G10	WC	G1N0106-GI-O-29yrs-0%
G1N0107	Helderwater	G10M	WC	G1N0107-GI-O-29yrs-1%
G1N0108	Langeberg	G10	WC	G1N0108-GI-O-30yrs-0%
G1N0112	Hopefield A 304	G10	WC	G1N0112-GI-O-27yrs-0%
G1N0115	Farm 178	G10	WC	G1N0115-GI-O-27yrs-0%
G1N0141	Rietfontein 378	G10	WC	G1N0141-GI-O-26yrs-0%
G1N0143	Elandsfontyn	G10M	WC	G1N0143-GI-O-26yrs-0%
G1N0144	Elands Fontein 349	G10	WC	G1N0144-GI-O-27yrs-0%
G1N0145	Elandsfontyn	G10	WC	G1N0145-GI-O-26yrs-0%
G1N0146	Muishond Fontein	G10	WC	G1N0146-GI-O-33yrs-4%
G1N0147	Klipfontein Ptn Langebaan Road	G10	WC	G1N0147-GI-O-16yrs-2%
G1N0149	Kerschbosch 175	G10	WC	G1N0149-GI-O-15yrs-1%
G1N0150	Konings Vlei 138	G10	WC	G1N0150-GI-O-14yrs-0%
G1N0152	Driehoeks Fontein 176	G10	WC	G1N0152-GI-O-14yrs-0%
G1N0153	Brakfontein 80	G10	WC	G1N0153-GI-O-16yrs-0%
G1N0154	Kleineberg 184	G10	WC	G1N0154-GI-O-16yrs-0%
G1N0156	Brakfontein 80	G10	WC	G1N0156-GI-O-16yrs-0%
G1N0159	Elandsfontyn 349	G10M	WC	G1N0159-GI-O-26yrs-10%
G1N0161	Driehoeksfontein	G10	WC	G1N0161-GI-O-15yrs-0%
G1N0162	Springfontein	G10	WC	G1N0162-GI-O-15yrs-18%
G1N0163	Spring			

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Station	Name	Catchment	Province	Label
G1N0191	Driehoeks Fontein Ptn Langebaan Road	G10	WC	G1N0191-GI-O-16yrs-0%
G1N0192	Driehoeks Fontein Ptn Langebaan Road	G10	WC	G1N0192-GI-O-16yrs-5%
G1N0216	Kerschbosch 175	G10	WC	G1N0216-GI-O-16yrs-1%
G1N0220	Driehoeks Fontein 176	G10	WC	G1N0220-GI-O-15yrs-0%
G1N0221	Farm 178	G10	WC	G1N0221-GI-O-13yrs-0%
G1N0222	Driehoeks Fontein 176 Gedeelte Driehoeksfontein	G10	WC	G1N0222-GI-O-14yrs-0%
G1N0226	Brakfontein	G10	WC	G1N0226-GI-O-14yrs-2%
G1N0227	Klipfontyn	G10	WC	G1N0227-GI-O-14yrs-29%
G1N0228	Muishond Fontein 137	G10	WC	G1N0228-GI-O-13yrs-3%
G1N0229	Muishond Fontein 137	G10	WC	G1N0229-GI-O-12yrs-0%
G1N0230	Muishond Fontein 137	G10	WC	G1N0230-GI-O-13yrs-1%
G1N0231	Muishond Fontein 137	G10	WC	G1N0231-GI-O-13yrs-0%
G1N0232	Klipfontyn 139	G10	WC	G1N0232-GI-O-13yrs-4%
G1N0233	Brakfontein 81	G10	WC	G1N0233-GI-O-13yrs-0%
G1N0234	Konings Vlei 138	G10	WC	G1N0234-GI-O-13yrs-0%
G1N0235	Langeberg 185	G10	WC	G1N0235-GI-O-13yrs-0%
G1N0236	Driehoeks Fontein 176	G10	WC	G1N0236-GI-O-13yrs-2%
G1N0237	Jantjiesfontein C69	G10	WC	G1N0237-GI-O-12yrs-3%
G1N0238	Drommelvalley 123	G10	WC	G1N0238-GI-O-30yrs-6%
G1N0240	Kersefontein 129	G10	WC	G1N0240-GI-O-13yrs-0%
G1N0245	Uyekraal	G10M	WC	G1N0245-GI-O-12yrs-0%
G1N0246	Klipfontyn	G10	WC	G1N0246-GI-O-13yrs-0%
G1N0247	Brakfontein	G10	WC	G1N0247-GI-O-13yrs-0%
G1N0248	Buurmans Twist	G10	WC	G1N0248-GI-O-29yrs-0%
G1N0249	Hopefield A 304	G10	WC	G1N0249-GI-O-13yrs-0%
G1N0250	Langeberg	G10	WC	G1N0250-GI-O-13yrs-0%
G1N0261	Rietfontein	G10	WC	G1N0261-GI-O-13yrs-0%
G1N0262	Elandsfontein	G10	WC	G1N0262-GI-O-29yrs-0%
G1N0264	Elandsfontyn	G10M	WC	G1N0264-GI-O-29yrs-0%
G1N0265	Van Niekerks Hoop 300	G10	WC	G1N0265-GI-O-13yrs-0%
G1N0266	Elandsfontein	G10	WC	G1N0266-GI-O-13yrs-0%
G1N0267	Elandsfontein	G10	WC	G1N0267-GI-O-13yrs-0%
G1N0268	Massenberg	G10	WC	G1N0268-GI-O-29yrs-0%
G1N0269	Bottelary	G10	WC	G1N0269-GI-O-34yrs-0%
G1N0270	Geelbek	G10	WC	G1N0270-GI-O-32yrs-0%
G1N0271	Lange Fontein	G10	WC	G1N0271-GI-O-31yrs-0%
G1N0273	Klipfontyn 139	G10M	WC	G1N0273-GI-O-13yrs-0%
G1N0274	Cloetes Kraal 92	G10M	WC	G1N0274-GI-O-29yrs-1%
G1N0275	Klipfontyn	G10M	WC	G1N0275-GI-O-11yrs-0%
G1N0330	Brakfontein	G10M	WC	G1N0330-GI-O-12yrs-0%
G1N0331	Cloetes Kraal	G10M	WC	G1N0331-GI-O-12yrs-0%
G1N0332	Brakfontein	G10M	WC	G1N0332-GI-O-12yrs-0%
G1N0333	Muishond Fontein Ptn Koningsvlei	G10M	WC	G1N0333-GI-O-12yrs-0%
G1N0334	Langeberg Ptn Langebaanroad	G10M	WC	G1N0334-GI-O-10yrs-0%
G1N0335	Uyekraal	G10M	WC	G1N0335-GI-O-30yrs-0%
G1N0336	Langeberg	G10	WC	G1N0336-GI-O-33yrs-0%
G1N0339	Klipfontein Ptn Langebaan Road	G10	WC	G1N0339-GI-O-16yrs-0%
G1N0340	Driehoeks Fontein Ptn Langebaan Road	G10M	WC	G1N0340-GI-O-14yrs-0%
G1N0341	Langeberg 188 Ptn Chemfos	G10	WC	G1N0341-GI-O-10yrs-0%
G1N0342	Brakfontein	G10L	WC	G1N0342-GI-O-11yrs-0%
G1N0343	Uyekraal	G10M	WC	G1N0343-GI-O-11yrs-0%
G1N0344	Langeberg	G10M	WC	G1N0344-GI-O-12yrs-1%
G1N0345	Uyekraal	G10M	WC	G1N0345-GI-O-12yrs-0%
G1N0346	Langeberg Ptn Anyskop	G10M	WC	G1N0346-GI-O-12yrs-0%
G1N0347	Langeberg Ptn Anyskop	G10M	WC	G1N0347-GI-O-12yrs-3%
G1N0348	Muishondfontein Ptn Koningsvlei	G10M	WC	G1N0348-GI-O-12yrs-0%
G1N0349	Klipfontyn Ptn Brakfontein	G10M	WC	G1N0349-GI-O-12yrs-0%
G1N0350	Muishondfontein Ptn Blomfontein	G10M	WC	G1N0350-GI-O-11yrs-0%
G1N0352	Muishond Fontein	G10M	WC	G1N0352-GI-O-11yrs-0%
G1N0353	Langeberg Ptn Anyskop	G10M	WC	G1N0353-GI-O-10yrs-0%
G1N0357	Muishond Fontein Ptn Blomfontein	G10M	WC	G1N0357-GI-O-11yrs-0%
G1N0358	Klipfontein Ptn Droefontein	G10M	WC	G1N0358-GI-O-11yrs-3%
G1N0360	Brakfontein	G10M	WC	G1N0360-GI-O-5yrs-0%
G1N0361	Klipfontyn	G10M	WC	G1N0361-GI-O-10yrs-0%
G1N0362	Koningsvlei Ptn Kliphuis	G10M	WC	G1N0362-GI-O-11yrs-0%
G1N0363	Brakfontein Ptn Spanjaard	G10M	WC	G1N0363-GI-O-11yrs-0%
G1N0364	Woesteheuvel 121	G10	WC	G1N0364-GI-O-13yrs-0%
G1N0365	Lange Riet Vlei Ptn Langrietvlei	G10M	WC	G1N0365-GI-O-9yrs-0%
G1N0366	Geelbek	G10	WC	G1N0366-GI-O-29yrs-0%
G1N0369	Everts Hope Ptn Lekkerwater	G10M	WC	G1N0369-GI-O-12yrs-0%
G1N0370	Waschklip	G10M	WC	G1N0370-GI-O-12yrs-0%
G1N0371	Farm Ptn Elandsfontein	G10M	WC	G1N0371-GI-O-11yrs-0%
G1N0373	Uyekraal	G10M	WC	G1N0373-GI-O-11yrs-0%

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Station	Name	Catchment	Province	Label
G1N0374	Olyphantskop Ptn Tiekosklip	G10M	WC	G1N0374-GI-O-11yrs-0%
G1N0380	Hartebeestfontein	G10M	WC	G1N0380-GI-O-11yrs-0%
G1N0383	Brakfontein	G10M	WC	G1N0383-GI-O-12yrs-13%
G1N0384	Brakfontein	G10L	WC	G1N0384-GI-O-10yrs-0%
G1N0385	Brakfontein	G10M	WC	G1N0385-GI-O-9yrs-0%
G1N0387	Muishond Fontein	G10M	WC	G1N0387-GI-O-9yrs-0%
G1N0388	Langeberg Ptn Chemfos	G10M	WC	G1N0388-GI-O-9yrs-0%
G1N0389	Elandsfontein	G10L	WC	G1N0389-GI-O-10yrs-0%
G1N0390	Hartebeest Fontein 372	G10	WC	G1N0390-GI-O-9yrs-0%
G1N0396	Kleineberg	G10M	WC	G1N0396-GI-O-9yrs-0%
G1N0397	Langeberg Ptn Chemfos	G10M	WC	G1N0397-GI-O-9yrs-0%
G1N0398	Langeberg Ptn Chemfos	G10M	WC	G1N0398-GI-O-9yrs-0%
G1N0455	Waschklip	G10M	WC	G1N0455-GI-O-8yrs-3%
G1N0458	Farm Ptn Vergelee	G10M	WC	G1N0458-GI-O-7yrs-0%
G1N0459	Waschklip	G10M	WC	G1N0459-GI-O-8yrs-0%
G1N0461	Farm Ptn Kliprug	G10M	WC	G1N0461-GI-O-8yrs-2%
G1N0462	Farm Ptn Kliprug	G10M	WC	G1N0462-GI-O-8yrs-0%
G1N0463	FARM 957 ADJACENT TO VREDENBURG ROAD	G10M	WC	G1N0463-GI-O-5yrs-0%
G1N0241	Konings Vlei 138	G10	WC	G1N0241-GI-O-31yrs-0%
G1N0242	Langeberg	G10M	WC	G1N0242-GI-O-31yrs-0%
G1N0467	Elandsfontyn Ptn Elandsfontein	G10M	WC	G1N0467-GI-O-8yrs-4%
G1N0468	Muishond Fontein Ptn Koningsvlei	G10M	WC	G1N0468-GI-O-9yrs-0%
G1N0477	Brakfontein	G10M	WC	G1N0477-GI-O-8yrs-17%
G1N0479	Hartebeestfontein	G10M	WC	G1N0479-GI-O-7yrs-0%
G1N0487	Brakfontein	G10	WC	G1N0487-GI-O-5yrs-0%
G1N0488	KLIPFONTEIN 139 PTN DROEFONTEIN	G10M	WC	G1N0488-GI-O-6yrs-0%
G1N0489	Klipfontyn Ptn Droefontein	G10M	WC	G1N0489-GI-O-29yrs-0%
G1N0101	Bovenfontyn 348	G10	WC	G1N0101-GI-O-29yrs-0%
G1N0116	De Grootefontein 305	G10	WC	G1N0116-GI-O-27yrs-0%
G1N0118	Bovenfontyn	G10	WC	G1N0118-GI-O-27yrs-0%
G1N0119	Bovenfontein 348	G10	WC	G1N0119-GI-O-27yrs-0%
G1N0171	Hopefield A Munisipaliteit Hopefield	G10	WC	G1N0171-GI-O-15yrs-0%
G1N0173	Hopefield A 304	G10	WC	G1N0173-GI-O-15yrs-0%
G1N0252	Bovenfontyn 348	G10	WC	G1N0252-GI-O-27yrs-0%
G1N0253	Bovenfontyn 348	G10	WC	G1N0253-GI-O-27yrs-0%
G1N0254	Uilenkraal 441	G10	WC	G1N0254-GI-O-28yrs-0%
G1N0255	Riet Valley 444	G10	WC	G1N0255-GI-O-27yrs-0%
G1N0259	Theefontyn 384	G10	WC	G1N0259-GI-O-27yrs-0%
G1N0376	Uilenkraal	G10	WC	G1N0376-GI-O-34yrs-1%
G1N0377	Bovenfontyn	G10	WC	G1N0377-GI-O-29yrs-0%
G1N0378	Theefontein	G10L	WC	G1N0378-GI-O-12yrs-0%
G1N0379	Coeratenberg Ptn Kersbosdam	G10L	WC	G1N0379-GI-O-12yrs-0%
G1N0391	Theefontein	G10L	WC	G1N0391-GI-O-9yrs-0%
G1N0393	Uilenkraal Ptn Uilenkraal	G10L	WC	G1N0393-GI-O-9yrs-0%
G1N04				