

EVN Africa - SELECTED ASSIGNMENTS

ASSIGNMENT TITLE : LOCALITY	ASSIGNMENT DESCRIPTION	CLIENT NAME	START DATE	COMPLETION DATE	VALUE OF SERVICE R M
a) BUILDINGS & STRUCTURES : INDUSTRIAL					
Lunds Egg Packing Station : Polokwane	Design and Contract Supervision of large steel framed structure including nominal site works.	Lund Farms	01/88	12/95	3.85
Creosote Treatment Plant, Civil and Mechanical Layout : Voorspoed - Limpopo Prov.	Design, including process design, documentation and contract supervision and project management of reinforced concrete structure with clad steel elements.	Depart of Agriculture Limpopo	01/94	12/95	5.25
Turfloop Fish Breeding Station & Extensions Polokwane	Design, including process design, documentation and contract supervision of reinforced concrete fishbreeding tanks with filters. Structural detailing.	Department of Agriculture / University of the North	01/95	12/95	8.75
Royal Macadamia : Nut Processing Plant Levuvhu	Structural Steel / Reinforced Concrete; Design, construction supervision and project management of : Earthworks and terraces, structural steel structure, water supply for factory, sewage, treatment of waste water, mechanical equipment for Macadamia Nut processing, electrical switchgear, controls & mimic panel. Factory complies to ISO 9002 standard, the first in South Africa to receive certification Structural detailing.	Royal Macadamia	01/97	08/97	3.50
Sibasa Prison Abattoir	New structural steel building and site supervision	Department of Public Works	02/01	10/01	1.10
Dendron Poultry Farm	Design, documentation, tender adjudication and supervision of 3 x boiler houses, 2 x layer houses, administration building and water supply services. Design and detailing.	Molemole Local Municipality	09/02	02/03	0.95
Pfuka Rixile Poultry Farm	Design, documentation, tender adjudication and supervision of 3 x boiler houses, 2 x layer houses, administration building and water supply services. Design and detailing.	Department of Public Works	10/01	02/02	0.70
Waterproofing PWED Buildings at Giyani & Malamulele	Specifications, documentation and supervision	Department of Public Works	01/03	01/04	0.80
Structural problems ; Excel Garage Peninapark Polokwane	Assisting client with contract administration due to latent defects occurring within Latent defects liability period	Quantum Leap Investments	6/03	6/03	0.05
Mopani Disaster Centre	Design and supervision of structural steel roof trusses and reinforced concrete structures for the Mopani Fire Station and Disaster Management Centre.	Mopani Local Municipality	01/07		2.00
Limpopo Sisal Factory	Design, documentation and supervision of alterations to existing steel framed structures, new portal frame steel structures, water and sewerage services.				2.00
HM Kokstad Development Project: Phase 1	Construction of a new wood processing facility. The Works comprise of bulk earthworks and the construction of a plywood plant, steam vats and roads.	HM Holdings - Swanvest 347 (Pty) Ltd	03/2006	12/2007	R47 M
HM Kokstad Development Project Phase 2	Bulk earthworks and subsoil drainage for Phase 2 platform.	HM Holdings - Swanvest 347 (Pty) Ltd	09/2007	04/2008	R16M

b) BUILDINGS & STRUCTURES : INSTITUTIONAL / COMMERCIAL

Lebowa Factories (12 no) : Limpopo Province	Design and Contract Supervision of large steel framed structure including nominal site works. Detailing and site supervision.	IDC	01/88	12/89	10.50
Polokwane Airport Firestation	Engineering design and Contract Supervision of framed single storey structure including site works, water and sewer services, stormwater control and surfaced areas. Detailing and site supervision	Polokwane TLC	01/89	12/90	0.70
Giyani Plaza Extension	Engineering design and Contract Supervision of framed single storey structure including site works, water and sewer services, stormwater control and surfaced areas. Structural detailing	Nkuna	01/89	12/89	0.42
Phatudi College Extensions : Limpopo Province	Engineering design and Contract Supervision of framed reinforced concrete multi storey training centre including site works, water and sewer services, stormwater control and surfaced areas. Detailing and site supervision.	Department of Public Works	01/91	12/91	0.35
Polokwane Airport Terminal	Engineering design and Contract Supervision of framed single storey structure including site works, water and sewer services, stormwater control and surfaced areas. Detailing and site supervision	Polokwane TLC	01/92	12/92	0.53
Lebowakgomo Commercial College	Engineering design and Contract Supervision of framed reinforced concrete multi storey training centre including site works, water and sewer services, stormwater control and surfaced areas. Detailing and site supervision.	Department of Public Works	01/94	12/94	2.28
Nkuna Shopping Centre : Giyani	Engineering design and Contract Supervision of framed single storey structure including site works, water and sewer services, stormwater control and surfaced areas. Structural detailing	Micheal Nkuna	01/94	12/94	2.10
Atteridgeville Magistrates Court : Pta	Engineering design of framed reinforced concrete building complex. Structural detailing.	Department of Public Works	01/96	2/2002	2.17
EVN Office Building Extensions : Polokwane	Design, including architectural layout design, Documentation and Contract Supervision of multi storey framed reinforced concrete office block extension. Architectural design, architectural and structural detailing documentation and contract supervision.	EVN	01/97	12/97	1.23
Atteridgeville Super Sport Stadium	Structural concrete pavilion and other appurtenant structures. Structural detailing.	Tshwane Municipality	01/98	Ongoing	80.00
SAFCOL Richards Bay Debarker	Design and construction supervision at the SAFCOL Richards Bay Debark and anti-blue line exports. Construction of machine base foundations anti-blue tank structural and surface bed slabs. Planning and detailing.	SAFCOL	07/98	07/98	0.69
GF Jooste Hospital Cape Town	Engineering design and Contract Supervision of framed single storey structure including site works, water and sewer services, stormwater control and surfaced areas. Detailing.	Cape Town Metro	01/99	12/99	2.10
Cedara Agricultural College Rehabilitation: Pietermaritzburg - KwaZulu-Natal	Design and Contract supervision for the rehabilitation of lift motorroom roof at Cedara Agricultural College and failure of face brick wall at Cedara Agricultural College.	KwaZulu-Natal Depart of Works	10/99	02/00	0.13
Christ the King Hospital: Ixopo, KwaZulu-Natal	Structural design of extensions to Female Ward.	KZN Dept of Works	12/2007	02/2009	R9.8M
Fort Napier Hospital: Pietermaritzburg, KwaZulu-Natal	Structural rehabilitation works of wards and laundry.	KZN Dept of Works	03/2007	03/2008	R1.2 M

b) BUILDINGS & STRUCTURES : INSTITUTIONAL / COMMERCIAL (Cont)

DOT Water Tower Demolition: Pietermaritzburg	Specification and Contract documentation for the demolition of a 25m high 200kl reinforced concrete water tower at the Department of Transport Building - Pietermaritzburg	KwaZulu-Natal Depart of Works	05/00	07/00	0.50
Rural Schools - KwaZulu-Natal	Engineering services for ablution facilities and fencing for 4 schools in Kranskop district.	Department of Works	01/04	07/04	0.8
Soshanguve School : Bokamoso Gauteng Province	Engineering design and Contract Supervision of reinforced concrete - raft foundation, Primary School, including site works, water and sewer services, stormwater control and surfaced areas.	Dept. of Education (Gauteng)	09/00	03/02	1.33
Thohoyandou Prison	Rehabilitation of buildings. Survey and documentation.	Department of Public Works	11/00	12/01	4.50
Adderley Street 1	Refurbishment & upgrading. Survey and documentation.	Propnet	11/00	01/01	4.00
Bungeni Sport Complex	Design, including architectural layout of portal framed structure including site works, water and sewer services. Architectural design and detailing.	Makhado Municipality	08/02	06/03	1.60
Vuwani Sport Complex	Design, including architectural layout of portal framed structure including site works, water and sewer services. Architectural design and detailing.	Makhado Municipality	10/02	11/03	1.60
Malamulele Stadium	Design, documentation, tender adjudication and supervision of upgrading, grassing irrigation system and pumpstation to the soccer field, construction of new ablution block and refurbishment of 2 x tennis courts, 2 x volleyball courts and installation of palisade fencing	Thulamela Local Municipality	12/03	05/04	1.89
Nkowankowa Sports Facility	Design, documentation, tender adjudication and supervision of upgrading and grassing of soccer pitch, construction of irrigation system and pumpstation, construction of ablution block, entrance gates.	Greater Tzaneen Municipality	08/03	04/04	1.70
Nkowankowa Stadium	Design, documentation, tender adjudication and supervision of refurbishment of open pavilion, upgrading of security fence, conversion of broadcasting rooms and refurbishing VIP seats	Akanani Rural Development Ass	08/03	04/04	1.78
Waterval/ Vleyfontein / Shirley & Bungeni Stadiums	Design, documentation, tender adjudication and supervision of upgrading, grassing and irrigation system to 4 soccer fields and open pavilion to 1 stadium.	Akanani Rural Development Ass	12/03	04/04	3.20
Revitalization of 2001-2002 CBPWP	Assessment, documentation, tender adjudication and supervision of refurbishment of class rooms, toilet blocks of 2 x school fencing, 2 x school community hall and taxi rank and electricity connection to community hall and 2 schools	Mopani District Municipality	02/04	06/04	0.70
Standard Circuit Office	Structural, design of footings, slabs, columns and roof for standard circuit office building.	Department of Education	10/07		55.00
DWAF Tzaneen Office Block	Supervision, contract administration and design of two office block complexes under the DWAF Term Contract.	Department of Water Affairs & Forestry	11/07	04/08	2.00
Mtiti Hall	Design, documentation and supervision of a new multi purpose community centre including architectural layout, reinforced concrete roof slabs and site services.	Vhembe District Municipality	05/07	02/08	2.50
Mogwadi Traffic Station	Design, documentation and supervision of a new K53 and vehicle test station including steel portal frame for vehicle test bay, paved areas for K53 test grounds, office building, mechanical equipment and site services.	Molemole Local Municipality	06/07	02/08	3.00

c) URBAN TOWNSHIP SERVICES

Waterval & Giyani Township Services : Contractual Construction : Limpopo Province	The design, supervision (contract administration) of water supply reticulation, water borne sewage reticulation, stormwater network with surfaced streets. Water supply included bulk connector services such as a 5.7 Ml reinforced concrete reservoir. Sewage works constituted a 2.5 Ml/day activated sludge treatment plant.	Vhembe District Council	01/91	12/94	19.25
Zambia Cities : Report	Water development and rehabilitation at Ndola, Kitwe Luanshya and Chingola. Investigations to water treatment, water supply, sewage treatment and township services management. Report and recommendations submitted. No implementation due to shortage of funding. Preliminary engineering design.	Zambia Government	01/93	07/93	21.00
Polokwane Extension 11 and Westenburg	533 Erven : Water and Sewer Services. Design supervision and contract administration for City Council of Polokwane. 533 erven supplied with water reticulation, water borne sewage reticulation, stormwater network and surfaced streets.	Polokwane TLC	01/94	12/94	2.98
Polokwane Extension 11	699 Erven. Design & supervision of 699 erven for City Council of Polokwane for water supply, water borne sewage, stormwater and surfaced streets.	Polokwane TLC	01/95	12/97	21.00
Polokwane Munnik Drive Upgrading : Polokwane	Design, Documentation and Contract Supervision of double lane urban street some 2km long including stormwater and parking bays and relocation of services.	Polokwane TLC	01/97	12/97	3.50
Polokwane Extension 40 : Water & Sewer Services	Design, documentation and contract supervision of 400 dia steel water main 4.5 km long, 200 dia outfall sewer, and sewage pump station 25 kW	Polokwane TLC	11/98	04/99	1.10
Coastal Town Development in Southern Cape	Town development at Struisbaai, Mosselbay, Wildernis, Epping & Botriver. Identification of economically viable land for development, acquiring of land, raising capital from private investors, design and supervise construction of bulk water supply, (including pumpstations, bulk water pipelines and reservoirs). Bulk sewage disposal (sewage pumpstations) water reticulations, water borne and small bore sewage reticulations, storm water networks and surfaced streets. Managing the marketing and selling of fully serviced stands.	PDS	01/94	12/99	63.53
Broadlands Estates Polokwane	Design not supervision for private developer of water reticulation, water borne sewage reticulation, stormwater network & surfaced streets. The development consists of 1 ha plots with a security wall and access control facility.	VIP Developers	01/97	12/97	8.75
Hans van Rensburg Street Upgrading : Polokwane	Refurbish and upgrade of existing three block central business street comprising Design, Documentation and Contract Supervision of stormwater system, relocation of services and surfaced street.	Polokwane TLC	01/98	12/98	4.38
Seshego	Surfacing of streets & stormwater	Polokwane Municipality	04/00	03/01	3.50
Giyani	Regravelling of streets : Units E & F	Greater Giyani Municipality	11/00	06/01	1.00
Bochum Town	Upgrading of all services in CDB and residential area	Blouberg Municipality	11/00	07/01	0.90
Shorts Retreat - Pietermaritzburg	Design, specification and contract supervision of 0,6km long street in Mkondeni Industrial area, Pietermaritzburg	Pietermaritzburg City Engineers	01/01	09/01	1.90
Dendron Town	Waterborne sewage reticulation system from existing septic tanks, sewage pump station and main outfall sewer	Molemole Municipality	02/01	08/01	6.50

c) URBAN TOWNSHIP SERVICES (Cont)					
Malamulele Town	Rehabilitation of waterborne sewage system, sewage pump station and outfall sewer	Thohoyandou / Malamulele Municipality	05/01	10/01	2.50
Giyani	Surfacing of streets & stormwater	Greater Giyani Municipality	07/01	10/01	4.00
Polokwane Municipality : Ext 44 Entrance Road	Design, documentation, tender adjudication, additional supervision to assist inexperienced contractor. Design included geometric design as well as geotechnical design located in active clays.	Polokwane Municipality	01/02	01/03	3.90
Chiawelo Housing Development	Engineering report on the proposed development of erf 7305 Chiawelo ext 2, Johannesburg into 75 residential erven.	Dr SC Khosa	12/02	12/02	2.10
Malamulele Unit D : Sewage Retic.	Design and supervision of waterborne sewage reticulation system for 79 erven	Thulamela Local Municipality	03/04	10/04	0.70
Outfall Sewer : Mokopane	Engineering design, supervision and contract administration of outfall sewer : 200 DN - 100m; 300 DN - 100m; 450 DN - 770m; 500 DN - 240m and 15 no of 1.5 - 2m manholes	Mogalakwena Local Municipality	09/03	02/04	1.40
Mooi River Truck Stop	Engineering services for 150 vehicle overnight parking facility	Imperial Holdings	01/04	04/04	2.4
DWAF Tzaneen Township Layout & Services	Design of Township Layout and services	Department of Water Affairs & Forestry	11/07	Not awarded yet	5.00
Mathibela Streets	Design & supervision of 2.24 km of surface streets & stormwater	Lepelle Nkumpi Local Municipality	03/07	05/08	4.70
Polokwane SDA3 Water & Sewer Services	Design, supervision and contract administration of bulk water lines, outfall sewer lines and sewerage pump station	Polokwane Municipality			15.00
Water Supply to IEC Schools Co-ordination	Coordination of water supply and sanitation services to schools in charge of a team of Consultants.	Department of Education			1.90 Fees
Water Supply to Schools : Capital Projects	Coordination of water supply and sanitation services to schools in charge of a team of Consultants.	Department of Water Affairs & Forestry	10/07	03/09	20.00
d) RURAL TOWN SERVICES					
Makatini Rural scheme : KwaZulu Natal	Water Supply. Domestic water supply to 6 villages on the Makatini Irrigation Scheme. Water is drawn from the canal system and treated in 3 package water treatment plants before being pumped to communal standpipes in the villages.	Department of Agriculture	01/87	08/87	4.38
Giyani Rural Township Intensive Labour Project	Design, Documentation and Contract Supervision including project management of labour intensive construction in 30 rural villages comprising upgrading of unsurfaced streets and stormwater banks, culverts and protective works.	Department of Public Works	01/91	01/93	5.25
Drought Relief to Seshego and Mapulaneng : Limpopo Province	Water supply. Emergency borehole equipment and rudimentary surface installation comprising electrified motors or diesel engines, tank stands and draw-off taps. Refurbishment and upgrading of existing borehole installations and other small water supply infrastructure. The area served, benefited some 6000 people living in rural areas. Full peoples participation. Design, specifications, invitation to tender, tender award, contract supervision, completion certification.	DWAF	01/92	12/92	4.38

d) RURAL TOWN SERVICES (Cont)

Craigieburn Rural Water Supply : Bushbuckridge : Limpopo Province	Water Supply. Equipping and interconnecting 3 boreholes, bulk supply to 600 kl service reservoir with consumer outlets on-line and rudimentary reticulation in a piped water supply system. Full people's participation. 8000 people benefiting. Design, specifications, invitation to tender, tender award, contract supervision and completion certification.	DWAF	01/92	12/92	1.23
Umzimkulu - Stage 1 - Eastern Cape	Design, specification, tender documentation, contract supervision and management of Stage 1 of the Umzimkulu Rural water supply scheme	DWAF	07/98	02/00	6.30
Hluhluwe CWS Phase 1: KwaZulu-Natal	Design, tender documentation, Contract supervision and management of Phase 1 of the Hluhluwe CWS. This Phase 1 comprised the provision of a water treatment works at the Hluhluwe Dam, conversion of existing raw water pump station, pumpline and 5MI storage reservoir to clear water installations. Distribution of water to Mdletshe Ward. Supply area 146km ² . Population 12856.	Mhlatuze Water	11/97	06/99	7.80
Drought Relief Technical / Admin Co-ordination : Limpopo Province	Water Supply. Emergency borehole equipment and rudimentary surface installation comprising electrified motors or diesel engines, tank stands and draw-off taps. Refurbishment and upgrading of existing borehole installations and other small water supply infrastructure. The area served benefited some 12 000 people living in rural areas. Full peoples participation. Design, specifications, invitation to tender, tender award, contract supervision, completion certification.	DWAF	01/92	12/93	15.75
Mashau / Masia Water Scheme : Limpopo Province	Water supply Rural water supply to rural residential areas through boreholes comprising, borehole equipping, bulk distribution, storage reservoirs & rudimentary reticulation at various localities. 9000 people benefiting. Design, specifications, invitation to tender, tender award, contract supervision, completion certification.	DWAF	01/92	12/92	7.00
Engwaqa Village Water Supply - Eastern Cape	Water supply comprising spring protection of two perennial springs. Bulk supply of 7,5km terminating at one 30KI and one 50KI reservoir.	Mvula Trust	11/97	4/99	0.290
Hluhluwe Water Supply Scheme: Phase 3 – Reticulation	Provision of a rural water reticulation network and communal standpipes and provision of three water offices.	uMkhanyakude District Municipality	05/2006	12/2008	R23 M
Hluhluwe Water Supply Scheme: Phase 3	Provision of bulk pipelines, reticulation pipe networks, pump stations, 1.1MI reservoir and 8MI / day conventional water treatment works.	uMkhanyakude District Municipality	06/2004	03/2008	R90M
Hluhluwe Water Supply Scheme: Phase 4	Provision of bulk pipelines and pipe networks, 7 command reservoirs and 4 pumps stations	uMkhanyakude District Municipality	06/2008	06/2011	R114M
Former Lebowa rural water projects DBSA funding : Limpopo Province	Water supply to Burgwal, Dibeng, Early Dawn, Makweya, Mashashane, Mapulaneng. Rural water supply project sourced from boreholes comprising, borehole equipping, bulk distribution, storage reservoirs & rudimentary reticulation at various localities. 10000 people benefiting. Design, specifications, invitation to tender, tender award, contract supervision, completion certification.	DWAF	01/93	12/94	7.88
Moletsi Karabe : Limpopo Province	Water Supply. Equipping and interconnecting 3 boreholes, bulk supply to 600 kl service reservoir with consumer outlets on-line and rudimentary reticulation in a piped water supply system. Full peoples participation. 5000 people benefiting. Design, specifications, invitation to tender, tender award, contract supervision, completion certification.	DWAF	01/94	12/94	3.50

d) RURAL TOWN SERVICES (Cont)

High Density Low Cost Housing : Limpopo Province	High Density Low Cost Housing at Polokwane x 29 (353 erven), Gravelotte (606 erven), Giyani Unit F (815 Erven), Waterval (420 erven), Shitale Hlanganani (1450 erven) These projects contained the following : Identification of a housing need. Identifying a suitable location for a housing development. Reaching an agreement with the communities involved. Finalizing agreements with the Government's housing department. Manage the proclamation of the new Township making use of Town planners and Land Surveyors. Design, supervise and manage the water and sewage reticulations, as well as the bulk water supply (reservoirs and pipelines), and the bulk sewage system such as oxidation ponds. Arrange the building of houses with the local communities. Act as construction managers ordering materials and training local contractors in building skills.	Department of Housing	01/96	12/96	39.03
Small Schemes Capricorn District : Limpopo Province	Water supply to 3 localities. Rural water supply project sourced from boreholes comprising, borehole equipping, bulk distribution, storage reservoirs & rudimentary reticulation at various localities. 6000 people benefiting. Design, specifications, invitation to tender, tender award, contract supervision, completion certification.	DWAF	01/96	12/99	5.25
Nkuri Lowveld : Giyani	Water Supply. Design and contract supervision of wellfield (borehole) installations for water supply to four rural villages. Fidic contract documentation for Design, Build and Turnkey.	DWAF	01/96	12/99	1.75
Bakone Manamela : Limpopo Province	Water supply. Rural water supply project sourced from boreholes comprising, borehole equipping, bulk distribution, storage reservoirs & rudimentary reticulation at various localities. 15000 people benefiting. Design, specifications, invitation to tender, tender award, contract supervision, completion certification.	DWAF	01/96	12/99	7.88
Limpopo Province : Various Townships	Diamant, Sekuruwe, Matshavhawe, Hwelereng, Fairly, Vhutalu, Van Wykspuit, Utha, Rakgoatha, Dixie, Seville A & C, Mhala North, Rotterdam, Phaane, Pitsi-a-Mashilo, Fanangdiatla. Applying for funds, compiling business plans and technical reports. Design, supervise construction. Training.	Mvula Trust	01/97	06/99	21.00
Umzimkulu - Stage 2: Eastern Cape	Design, specification, tender documentation, contract supervision and management of Stage 2 of the Umzimkulu Rural water supply scheme	DWAF	02/99	11/00	7.00
Water services rural towns in Limpopo Province	Assisting rural TLC's in the provision of water services in the following villages, comprising design, contract documentation & construction supervision at Orpen & Casteel : Bushbuckridge TLC, Mooketsi-Sekgosese TLC, Nokotlou-Fetakgomo TLC	Department of Constitutional Affairs : Equitable Share Funding	04/99	12/99	17.50
Hlogotlou / Nkosini Villages	Water reticulation with prepaid standpipe systems	Greater Groblersdal Municip.	09/00	05/01	1.80
Dendron Rural	Upgrading and extension of water systems at 5 villages	Molemole Municipality	11/00	07/01	2.40
Tugela Estates - Phase 1 - KwaZulu-Natal	Design and specification for the abstraction of water from the Thukela river, purifying and pumping to a low command reservoir to approximately 56% of the low command zone. 185m ³ /day.	DWAF	01/00	02/01	6.80
Hluhluwe CWS Phase 1A: KwaZulu-Natal	Extensions of distribution pipelines and WTW at the Hluhluwe Phase 1 CWS.	Mhlatuze Water	10/00	07/01	5.40

d) RURAL TOWN SERVICES (Cont)

Flood damage repairs : Rural villages throughout Northern Province	Repairs of water services infrastructure that resulted from February 2000 deluge comprising short term (emergency) and long term measures re borehole installations, pump and gravity mains, reservoirs, pump stations, reticulation, river crossings and access roads 4 Sites or villages 12 Sites or villages 12 Sites or villages	Eastern District Municipality Mopani District Municipality Vhembe District Municipality	11/00 03/00 03/00	09/01 03/02 06/02	3.00 9.00 24.00
Hluhluwe CWS Phase 2: KwaZulu-Natal	Design, specification, Construction supervision of Hluhluwe Phase 2. Community Water Supply Scheme comprising the raw-water abstraction from the Hluhluwe river. Modular Water Treatment works 80m ³ /h, 1,4Ml command reservoir. 400km bulk and reticulation pipelines	Mhlatuze Water	05/00	08/03	36.00
Blouberg	Water supply systems including boreholes to Ga Mankgodi, Vergelegen, Grootdraai and Papegaai villages	Blouberg Municipality	04/01	08/01	1.20
Tugela Estates - Phase 2 - KwaZulu-Natal	Design and specification for the extension of the Tugela Estates Scheme to include the high command zone. Included is a clear water pump station, 200kl, Reservoir, Rising main and Distribution pipelines.	DWAF	10/00	09/01	5.00
Mount Fletcher Water Supply - Xaxazana and Sidaka- Eastern Cape	Design, contract documentation, supervision and management of water supply to the villages of Xaxazana and Sidaka in Mount Fletcher. The contract comprise the drilling and equipping of boreholes at these two villages and the construction of bulk and reticulation distribution pipelines as well as the construction of storage reservoirs.	Alfred Nzo District Municipality	02/01	07/01	1.20
Umzimkulu Water Supply - Clydesdale and Machunwini- Eastern Cape	Design, contract documentation, supervision and management of water supply to the villages of Clydesdale and Machunwini in Umzimkulu. The contract comprise the drilling and equipping of boreholes at these two villages, the construction of bulk and reticulation distribution pipelines and the construction of precast storage reservoirs.	Alfred Nzo District Municipality	03/01	09/01	2.20
Aganang	Water supply systems including boreholes to Ga Rawesi, Lekiting and Nonono villages	Aganang Municipality	04/01	08/01	1.20
Table Mountain Water Scheme - KwaZulu-Natal	Water supply to 8000 people. A total of 24km of reticulation pipelines constructed using labour intensive construction methods.	Umgeni Water			
Marite / Mhala Reticulation	The design, documentation and contract supervision of 8km reticulation pipeline	Bushbuckridge Municipality	04/03	03/04	1.80
Dwarsloop / Maviljan Reticulation	The design, documentation and construction of 3kms 500 dia welded steel pipeline	Bushbuckridge Municipality	03/04	11/04	8.00
Schools to be used as IEC voting stations water supply	a) Project engineer for the installation of water supply systems to 64 schools in Limpopo b) Provincial coordination for installation of water services to 530 schools	Depart of Education Limpopo	11/03	07/04	9.6 0.8
Tshakhuma South : Extension	Rural water supply scheme comprising borehole equipping, bulk supply pipelines, 600kl reservoir and reticulation network. Six rural villages with a population of 6600 to benefit.	DWAF			2.90
GaNkwana Housing : Reticulation and Storage	Rural village water services to 2000 stands including assistance to HD consultant	Sekhukhune DM	06/02	04/04	4.00

Blyde Wildlife Estate	Design, supervision and contract management of the development of 157 stands. Services include bulk water supply, water reticulation, streets. Contract management includes coordination of civil and electrical engineers and Telkom.	Marineco 06 (Pty) Ltd	11/03	12/04	6.30
Hluhluwe CWSS Phase 3: Kwazulu Natal	Design, specification and construction supervision of scheme comprising 288km bulk and reticulation lines to supply 30 000 people.	DWAF	04/04	10/07	79.00
Lourdes CWSS - Umzimkulu District	Design, specification and construction supervision of scheme supplying water to 15 villages.	Alfred Nzo District Municipality	03/04	10/05	12.00
Umzimkulu Water Supply - Eastlands	Engineering services and construction management for water supply to village.	Alfred Nzo District Municipality	05/02	07/02	0.80
Sekiti Water Supply	Design of bulk water infrastructure and borehole pump equipment	Dynacon			3.00
Molemole West & East Village Schemes	Upgrading of bulk water supply infrastructure and reticulation network	Capricorn District Municipality			9.00
Casteel Reticulation	Reticulation in Casteel village, 19 km uPVC pipes plus 41 domestic draw-offs. Emergency water supply projects in 6 villages.	Bushbuckridge Local Municipality	01/06		2.00
Water Supply Emergency Projects	Design of Emergency water supply projects	Bushbuckridge Local Municipality			4.50
Kumana Water Supply	Reticulation in Kumana village, 8.9 km uPVC pipes plus 22 domestic draw-offs.	Bushbuckridge Local Municipality	11/06	04/07	1.42
Kaditshwene Water Supply	Design, specification and construction monitoring of 5 832 m, 24 standpipes, elevated 600 kl steel tank and development of borehole with rising main.	Mogalakwena Local Municipality	09/06	11/07	2.30
e) BULK WATER SUPPLY INCLUDING PUMPING & RESERVOIRS					
Reservoirs : Limpopo Province	Waterval Town Service Reservoir 5.7 MI, Northwest Province (40 ML raw water), Eskom Ellisras (2.5 MI Floating roof), Atteridgeville (16 ML 2 off bulk supply reservoirs), Olifantspoort (2.75 MI concrete). Reinforced concrete circular and rectangular water command and service reservoirs in various localities comprising foundation drainage site earth works, security fencing, water proofing, telemetry, and water level recording. Sizes ranging from 200 (65 no), 600 (130 no), 2750 (2 no), 5000 (8 no) & 10 000 (2 no) kl. Design, specifications, invitation to tender, tender award, contract supervision, completion certification. Reservoirs : Civil and structural detailing.	DWAF	01/87	12/98	87.50
Douglas Emergency Water Scheme : Northern Cape	River pump station and pumpline. Emergency raw water scheme from the Orange river and pumping 2000 kW into an unlined 20 cumec canal 10 km long. Design, specifications, invitation to tender, tender award, contract supervision, completion certification. Structural detailing.	DWAF	01/87	12/87	10.33
Makatini Pump stations : KwaZulu Natal	Pump stations. Design and construction supervision of two major irrigation pump stations, each with pump capacity of 1200 l/s; balancing dams and mechanised screens in pump forebays.	Department of Agriculture	01/87	12/88	8.30
Dwarsloop/Maviljan : BBR : Limpopo	Pipe mains. Bulk supply main connector and distribution pipelines. People benefit 11 000.	Rand Water	01/96	12/99	3.50
Giyani Bend	Pumping scheme. 5 Irrigation water pump stations each some 300 kW capacity. Design, specifications, invitation to tender, tender award, contract supervision, completion certification.	Department of Agriculture	01/88	12/88	1.68

e) BULK WATER SUPPLY INCLUDING PUMPING & RESERVOIRS (Cont)

Giyani	Bulk water supply booster station. Clear water booster pump station on existing bulk supply main, 200 kW. Design, specifications, invitation to tender, tender award, contract supervision, completion certification.	Department of Agriculture	01/88	12/88	8.75
Tshikororo : Limpopo Province	Water Supply. Rural water supply project sourced from perennial streams, comprising water treatment, bulk distribution, storage reservoirs, rudimentary reticulation at various localities. 6000 people benefiting. Design, specifications, invitation to tender, tender award, contract supervision, completion certification.	DWAF	01/88	12/88	4.38
Hudson Ntsanwisi : Limpopo Province	Emergency Raw Water Pumping. Design and construction supervision of a raw water pump station with capacity of 175 l/s at manometric pressure of 550 kPa.	DWAF	01/92	08/92	6.13
Bushbuckridge Emergency Pumping Scheme for Maretsane River	Water Supply. Emergency drought relief measures through the provision of a 100 kW electrified pumpstation and 5 km long 200 dia steel pipe transferring water from a perennial stream to a water treatment installation. Because of the emergency nature contract management as well as project management functions were done. Design specifications, invitation to tender, tender award, contract supervision, completion certification.	DWAF	01/92	12/92	0.88
Khakhu, Tshifhire & Tshakhuma : Limpopo Province	Water Supply. Rural water supply project sourced from perennial streams, comprising water treatment, bulk distribution, storage reservoirs, rudimentary reticulation at various localities. 9000 people benefiting. Design, specifications, invitation to tender, tender award, contract supervision, completion certification.	DWAF	01/88	12/88	9.10
Tswasa Scheme : Limpopo Province	Pump stations. Raw water abstraction downstream from Eerstespoort Dam, treatment and pumping through 30 km long by 400 dia pump system to Gabarone. Design, specifications, invitation to tender, tender award, contract supervision, completion certification.	Botswana Government	01/89	12/89	1.05
Vhembe District Council Water Supply Projects : Limpopo Province	Gravelotte Pipeline, Gravelotte Reservoir, Hlogotlou Water Supply, Giyani Bulk Water conveyance, Valdezia Water Supply, Giyani Services Rehabilitation, Waterval Services Rehabilitation, Bakone-Manamela Water supply, Giyani / Elim Drought Relief, Tshakhuma Valdezia Drought Relief. Rural water supply project sourced from boreholes comprising, borehole equipping, bulk distribution, storage reservoirs & rudimentary reticulation at various localities. 54000 people benefiting. Various upgrading and refurbishment installations and water related distribution systems. Design, specifications, invitation to tender, tender award, contract supervision, completion certification.	Vhembe District Council	01/96	12/98	43.75
Dilokong Mine Water Supply : Limpopo Province	Water Supply. Design and construction supervision of bulk water supply to chromium mine from wellfield installations, pump stations and 4 km pumplines. Design, specifications, invitation to tender, tender award, contract supervision, completion certification.	Dilokong Mine	01/98	12/98	2.10
Houtriver Emergency Water Supply : Polokwane	Water Supply. Raw water abstraction from a dam. Modular water treatment installation 25 l/s 300 - 200 dia bulk supply main. 12 km long discharging into 4 600 kl concrete service reservoirs, equipping and inter connecting four boreholes. People benefiting 12 000. Design, specifications, invitation to tender, tender award, contract supervision, completion certification.	DWAF	01/92	12/93	4.38

e) BULK WATER SUPPLY INCLUDING PUMPING & RESERVOIRS (Cont)

Middle Letaba River Dam : Limpopo Province	Dam Dead Water Pumping for Emergency Drought Relief. Fast track design and construction supervision of an emergency pumping installation, mounted on raft for dam dead water pumping as a drought relief action. Constitutes a 150 kW installation with pumping capacity of 225 l/s.	DWAF	01/92	12/92	1.40
Groundwater Development : Mopani District : Limpopo Province	Water Supply. Equipping and interconnecting 58 boreholes into existing bulk water supply systems using essentially PVC piping, service reservoirs or elevated tanks, consumer outlets on branching rudimentary reticulation pipelines. 15 000 people benefiting. Design, specifications, invitation to tender, tender award, contract supervision, completion certification.	DWAF	01/95	12/99	12.25
Majosi / Masia : Pumpstation Reservoir, Pumpmain : Limpopo Province	Pumpstation Reservoir Pumpmain. Booster pumpstation 55 kW and 600 kl reservoir. Interconnecting pipework to existing systems. Design, specifications, invitation to tender, tender award, contract supervision, completion certification. Structural detailing.	DWAF	01/96	12/99	10.50
Middle Letaba System 'M' : Giyani Area	Pumpstation Reservoir Pumpmain. Clear water booster pumping from 3 pump stations. Bulk supply pipelines 200 - 400 dia, 17 km long. 600 kl and 200 kl concrete reservoirs. Rural township reticulation in 25 villages. Emerging and previously disadvantaged contractors extensively used. People benefiting 65 000. Design, specifications, invitation to tender, tender award, contract supervision, completion certification. Structural detailing.	DWAF	01/96	12/99	31.50
Tshakhuma : Limpopo Province	Pumpmain, pumpstation treatment works & reservoir. Design and construction supervision of conventional water purification plant with initial capacity of 3 MI / day; pump mains and clear water reservoir.	DWAF	01/96	12/99	14.00
Marite (Bushbuckridge) : Limpopo Province	Abstraction works / pumpstation pump & gravity mains & reservoir. Raw water abstraction from perennial stream. Pump stations, reservoirs, bulk supply mains, reticulation and draw-off points in semi-urban town benefiting 35 000. Design, specifications, invitation to tender.	Rand Water	01/96	12/99	19.25
Glen Alpine : Limpopo Province	Dam abstraction & treatment works. Major bulk water supply project comprising abstraction works from dam and conventional treatment works. Design and specification phase. Feasibility study for regional water scheme to serve 120 000 people awaiting design.	DWAF	01/96	12/99	24.50
Olifantspoort South RWS Phase 1-5 : Limpopo Province	Water Supply. Clear water abstraction and pumping 200 kW into 400 - 500 dia concrete lined steel pumpmain discharging into 2750 kl concrete service reservoir. Feasibility study of regional water scheme to serve 70 000 people. Design, specifications, invitation to tender, tender award, contract supervision, completion certification. Structural detailing.	Lepelle Northern Water PIA for DWAF Limpopo	01/96	08/04	35.00
Pipeline 'F' Giyani	Water supply. Bulk water supply main 350 down to 200 dia, 40 km long. 200 and 600 kl concrete reservoirs, draw-off lines and 15 kW booster pump station, 20 km reticulation. Design, specifications, invitation to tender, tender award, contract supervision, completion certification.	DWAF	01/96	12/99	17.50
Giyani Water Works High Lift Pumps	Water supply. Design and construction supervision of a clear water pumping installation with capacity of 110 l/s. Fidic contract documentation for Design, Build and Turnkey.	DWAF	01/96	12/99	5.25

e) BULK WATER SUPPLY INCLUDING PUMPING & RESERVOIRS (Cont)

Nzhelele / Tshipise	Upgrading of boreholes in 10 rural villages	Makhado Municipality	10/00	07/01	0.80
Ximba Water Supply Scheme : KwaZulu Natal	Water Supply. The Ximba Water Supply Scheme supplies water drawn from Umgeni Water's bulk supply system to some 30 000 people living in the Valley of a Thousand Hills in typically scattered rural settlement pattern. A total of 106km of pipeline ranging in size from 160mm dia to 40mm dia was installed. Cost recovery is through formal accounts issued to individually metered connections.	Umgeni Water	02/91	05/95	18.55
Klipspringer Diamond Mine : Zebediela, Limpopo Province	Planning, design, documentation and construction supervision of pump station (210 kW), 200 dia steel & fibre cement pump main, 17 km long, 600 kl & 2500 kl concrete reservoirs. Structural detailing.	Southern Era Resources	04/99	09/99	14.00
Dap Naudé Bulk Water Supply Main	a) Engineering & hydraulic evaluation of existing 400 / 500 dia pipeline 54 km long, in order to determine refurbishment & upgrading requirements, particularly re water hammer in a gravity main after 40 years in operation. b)	Polokwane Municipality	04/99 03/01	06/99 05/01	Study Feasibility
	b) Design, documentation and tendering	AMPlats	06/08	not awarded	R 112
KwaNgwanase Water Scheme : KwaZulu Natal	Water supply. The project involved the planning, design and implementation of a water supply scheme to the rural village of KwaNgwanase in northern KwaZulu Natal. 6000 people and a regional hospital are served. Physical development was preceded by intensive institutional and social capacity building and an environmental impact study on the sensitive lake used as a supply source.	Department of Agriculture	09/92	08/94	2.94
Umbumbulu Water Supply Scheme : KwaZulu Natal	Water supply. The project supplies water to a rural area of 40 000 ha with 28 000 inhabitants. It was implemented using labour intensive construction methods where possible. Conventionally constructed scheme elements included 4 pump stations, 9 reservoirs and a slow sand filter water treatment plant.	Umgeni Water	10/93	07/96	19.95
Olifantspoort South RWS Phase 2 : Limpopo Province	Bulk supply mains 400 to 250 dia steel main concrete lined, storage reservoirs (4no x 600 kl)	Lepelle Northern Water Board & Sekhukhune District Municipality	01/00	09/01	13.00
Olifantspoort South RWS Phase 3 : Limpopo Province	Bulk supply main and pump station and reservoirs (1200kR and 2 x 600kR)	Lepelle Northern Water	10/01	03/02	10.00
Olifantspoort South RWS Phases 5 & 6 : Limpopo Province	Bulk supply main, pumpstation and reservoirs. (5 x 200 kl, 9 x 600 kl and 2 x 2.75 MI reservoirs and 2 x pump stations)	Greater Sekhukhune District Municipality and LNW	09/03	08/08	85.60
Ludlow Housing Bulk Water Supply Scheme : Bushbuckridge	Pump station, steel pipeline 110 dia x 3km and modifications to existing system	Eastern District Municipality	03/01	11/01	2.10
Bushbuckridge North Borehole Scheme	Drilling and equipping of boreholes in 9 villages	Eastern District Municipality	03/01	11/01	2.10
Orpen - Casteel Housing Bulk Water Supply Scheme	Borehole development and raw water abstraction from Acornhoek dam and pump station, reservoir and steel pump main	Eastern District Municipality	03/00	02/01	3.20
Pipeline Suspension Bridges	a) Majosi-Magoro pump main across Middle Letaba river : Design only b) Rotterdam gravity main c) Nsami river crossing Pipeline F Giyani	DWAF	04/01 01/01 01/01	- 08/01 08/01	7.0 1.2 1.3
Klein Letaba Irrigation Syphon	Refurbishment of flood damaged 800 dia pipe syphon, hydrological measuring weir and road causeway	DWAF	08/01	03/01	6.10

e) BULK WATER SUPPLY INCLUDING PUMPING & RESERVOIRS (Cont)					
Kampersrus Water Supply	The planning, design documentation and contract supervision of the construction of reticulation, reservoir booster pump station and the equipping of boreholes.	Maruleng Municipality	01/04	05/04	2.70
Marite Boreholes : VSA	The design, documentation and contract supervision of the drilling, equipping and the construction of 6 boreholes	Bushbuckridge Municipality	01/01	12/01	0.80
Dwarsloop Bulk Supply	The design, documentation and contract supervision of 91 km bulk, 3 reservoirs and 6 km reticulation pipelines	Bushbuckridge Municipality	01/02	12/02	6.60
Thulamahashe Ludlow Pipeline (CMIP)	The design, documentation and contract supervision of 6km, 600, 450 and 350 Ductile Iron pipeline	Bushbuckridge Municipality	01/04	12/04	7.30
Houtrivier Phase 2	Bulk water supply comprising construction of a 1.8 MI command reservoir, rehabilitation and upgrading of water works boreholes and raw water pump station and installation of pumphines.	Capricorn District Municipality	06/03	12/03	2.15
Flood Damage Repairs	Design and contract supervision of a 250 mm dia, 10.0 km long pipeline.	Department of Water Affairs & Forestry			1.50
Masakona Bulk Water Supply	Bulk water supply pipeline to Masakona	Department of Water Affairs & Forestry	07/07	06/08	9.00
Marite Bulk Water Pipelines	Design, construction and supervision of a 600 mm diameter ductile iron pipe from Inyaka WTW to Marite	Bushbuckridge Local Municipality	03/06	Ongoing	13.90
Shatale Bulk Water Pipelines	Design, construction and supervision of a 3 km steel and GRP pipe	Bushbuckridge Local Municipality	07/04	Ongoing	7.50
Acornhoek Pipeline	Design and construction of 700 diameter GRP line from Dwarsloop to Acornhoek. Was designed in 2 phases. DWAF Construction is the Contractor	Bushbuckridge Local Municipality	05/05	Ongoing	64.70
Marite Bulk Phase 2	Design, construction and supervision of 5.7 km ductile iron 600 mm dia pipe from Waterval to Marite.	Bushbuckridge Local Municipality	09/07	09/08	18.24
Rooiboklaagte Secondary Bulk	Design, construction and supervision of 24.5 km ductile iron 100 mm - 150 mm diameter pipeline	Bushbuckridge Local Municipality	09/07	09/08	14.86
Mametja Sekororo RWS	Design, supervision and contract administration of a 300 mm diameter bulk supply pipeline and borehole pump equipment	Mopani District Municipality			10.00
Majosi Bulk Pipeline	Design of a 350 mm dia bulk supply pipeline, 11.0 km long and appurtenant fittings	Murango Consultants			5.00
Majosi 1.8 MI Reservoir	Design and documentation of a 1.8 MI reinforced concrete reservoir with an 18.5 m internal diameter	Vhembe District Municipality	01/08		4.00
Mutale Regional Water Scheme	Design & supervision of bulk pipelines, village reticulation and reservoirs	Vhembe District Municipality	10/07		36.00
Atok Pipeline	7 km x 350 dia steel pipeline up to Atok Command Reservoir	Anglo Platinum	07/07		10.00
Babelegi Reservoir	The design, documentation and contract supervision of a 15 ml reservoir.	City of Tshwane	02/08	06/11	30.00
Babelegi Pump Station & Pump Mains	The design, documentation and contract supervision of an elevated storage tank and pump station. Refurbishment of pipelines.	City of Tshwane	02/08	06/11	5.00
f) WATER TREATMENT & SEWAGE TREATMENT WORKS (See also c, d & e)					
Sewage Pump Stations : Limpopo	Giyani and Kremetart Refurbishment	DWAF	03/01	06/01	1.10
Giyani Water Works	Conventional Water Works. Raw water pumping from Nsami dam and raw water gravity from Middle Letaba canal, raw water holding reservoir, dosing, clariflocculation, 4 filter blocks each with 4 filters, clear water storage. 12 MI, sludge ponds clear water pumping 500 kW, site works, security fencing, capacity 30 MI/day. Design, specifications, invitation to tender, tender award, contract supervision, completion certification. Structural detailing.	DWAF	01/75	12/89	9.10

f) WATER TREATMENT & SEWAGE TREATMENT WORKS (See also c, d & e) (Cont)					
Middle Letaba Water Works : Limpopo Province	Conventional Water works. Extension of treatment capacity from 6 to 24 Ml/day of existing water works by adding flocculation blocks. Design, specifications, invitation to tender, tender award, contract supervision, completion certification.	DWAF	01/87	12/87	6.67
Boschoek / Immerpan : Limpopo Province	Modular Water Works. 25 l/s transportable. Design, specifications, invitation to tender, tender award, contract supervision, completion certification.	DWAF	01/87	12/87	0.88
Makatini Flats : KwaZulu Natal	2 x 7 l/s Modular Water Works. Design and construction supervision of two modular water treatment plants, each with capacity of 7 l/s. Water purification.	DWAF	01/89	12/89	0.53
Pella Dam : Northwest Province	1 x 15 l/s modular water works. Design, specifications, invitation to tender, tender award, contract supervision, completion certification.	DWAF	01/89	12/89	0.35
Edinburgh : Bushbuckridge Limpopo Province	Modular Water Works (2 no x 20 l/s) Design, specifications, invitation to tender, tender award, contract supervision, completion certification.	DWAF	01/91	12/93	1.40
Hout River : Polokwane	Modular Water works 30 l/s. Design, specifications, invitation to tender, tender award, contract supervision, completion certification.	DWAF	01/92	12/92	0.88
Various Towns : Limpopo Province	Sewerage, activated sludge works, main outfall sewer, Waterval, Giyani, Kremetart, Gravelotte, Hlanganani. Sewerage treatment plants. The design and supervision of activated sludge installations, oxidation ponds and sewage pump stations.	Vhembe District Council	01/92/	12/98	20.23
Acornhoek : Bushbuckridge : Limpopo Province	Modular Water Works (2 no) x 20 l/s. Design, specifications, invitation to tender, tender award, contract supervision, completion certification.	DWAF	01/94	12/95	1.40
Arabie Boschoek : Limpopo Province	Modular Water Works x 22 l/s. Design, specifications, invitation to tender, tender award, contract supervision, completion certification.	DWAF	01/94	12/94	2.10
Sand River : Limpopo Province	Modular Water works 25 l/s. Design, specifications, invitation to tender, tender award, contract supervision, completion certification.	DWAF	01/95	12/95	1.75
Matlala Hospital : Limpopo Province	Modular Water Works. Design, compiling contract documents, supervision upgrading of : stormwater, roads : paving block surfaces, water reticulation, water purification : batch plant, extension of oxidation ponds, concrete palisade fencing. Design, specifications, invitation to tender, tender award, contract supervision, completion certification.	DWAF	01/95	12/95	0.88
Hlogotlou : Limpopo Province	Modular Water Works. Design, contract documentation, supervision. Bulk water supply to several rural communities from two undeveloped sources. The following was done : Spitskop : Construction of water purification plant. Construction of clear water pump station. Construction of 7km of pipeline. Construction of second phase pump station. Construction of reinforced concrete reservoir. Construction of telemetry system. Dindela : Construction of weir using masonry and mass concrete. Construction of pump station. Construction of a 5km long electrical power line. Construction of water purification batch plant.	DWAF	01/97	12/97	1.05
Dingleydale : Bushbuckridge : Limpopo Province	Modular Water Works 25 l/s. Design, specifications, invitation to tender, tender award, contract supervision, completion certification.	DWAF	01/97	12/97	0.88

f) WATER TREATMENT & SEWAGE TREATMENT WORKS (See also c, d & e) (Cont)					
Thulamahashe, Bushbuckridge Refurbishment	Conventional Water works. General upgrading and refurbishment of conventional water treatment plant. Design, specifications, invitation to tender, tender award, contract supervision, completion certification.	DWAF	01/98	12/98	2.63
Waterval Sewerage Treatment Works	2,5MI activated sludge Sewage Treatment Works. Design, specifications, invitation to tender, tender award, contract supervision, completion certification.	Department of Development Aid	02/84	06/85	3.15
Mogalakwena (Glen Alpine) Water Works	Conventional Water Works. Raw water pump feed from Glen Alpine dam to water works site below dam. Works capacity 16 MI/day with first module of 8 MI/day in tender award stage due for construction 90/00	DWAF	08/99	05/00	17.50
Sewage Pump Stations : Limpopo	Sabie Hoxani (effluent from oxidation ponds onto irrigation areas)	DWAF	04/94	06/94	0.20
Sewage Pump Stations : Limpopo	Polokwane Extension 29	Polokwane Municipality	03/00	08/00	0.36
Sewage Pump Stations : Limpopo	Dendron	Molemole Municipality	02/01	08/01	0.46
Sewage Pump Stations : Limpopo	Dalmada Township Polokwane	Private Development	08/01	12/01	1.30
Sewage Pump Stations : Limpopo	Malamulele Town	Thohoyandou Municipality	05/01	10/01	0.80
Thorndale Water Scheme	Modular water treatment plant (8l/s)	Eastern District Municipality	06/01	11/01	0.80
Ludlow Water Scheme	Modular water treatment plant (25l/s)	Eastern District Municipality	03/01	11/01	1.10
Acornhoek RWS	Conventional water treatment 3MI/day	Rand Water	01/00	04/01	4.00
Tshifire / Tshedza : Vhembe	Modular treatment plants at each site 26l/s and 10l/s including pump stations	DWAF Vhembe	11/00	08/01	2.50
Dendron Oxidation Ponds	Upgrading and refurbishment	Molemole Municipality	02/01	08/01	0.50
Piet Gouws Water Treatment Works	Rehabilitation and Upgrading	DWAF Sekhukhune	08/01	Pending	0.80
Zoeknog Modular Water Treatment Plant	The design, documentation and contract supervision of a 2500 kl water treatment plant	Bushbuckridge Municipality	01/02	03/03	1.80
Middle Letaba Water Works Pump Station	The design, documentation and contract supervision of a 1300 m ³ /h pump station	Department of Water Affairs & Forestry	06/06	11/08	14.00
Modjadji Water Works	Design, documentation and supervision of 3 new rapid gravity sand filters, filter gallery and raw water pumps to increase treatment capacity from 3.6 MI/day to 11.0 MI/day	Mopani District Municipality	02/04	07/04	5.00
g) ROADS (See also c & d For Streets)					
Road 2692 from Bridgewater to Messina	89km single lane tar road. Detail design, supervision of 89 km single lane surfaced road. Route determination. Detail design, road and bridges. Proclamation of new road. Drainage design (incl 3 bridges). Pavement design (incl soils investigations) Supervision of roads contracts (controlling soils lab). Supervision of bridge construction. Dealing with land owners. Finalising expropriation. Detail design, road and bridges.	Department of Public Works	01/90	12/92	63.00
Seleka Road : Limpopo Province	Roads. Design of 6km of rural road. Survey was done by students from the Department. Purpose of exercise was to train students in road design as well as to construct road departmentally. Soil investigation was also done by officials from the department. Control design by Departmental personnel who were trained under the contract.	Department of Public Works	01/90	12/92	3.15

g) ROADS (See also c & d For Streets) (Cont)					
Dopeni Tshire : Limpopo Province	Roads. Detail design and contract documents and supervision of 14.9 km single lane surfaced road through mountainous terrain and problem in-situ soils. Route determination. Detail design incl, road, drainage structures, pavement structure, anti-erosion structures. Dealing with local community. Supervision including soils laboratory.	Department of Public Works	01/95	12/96	28.00
Regravelling Sekhukhune District Roads : Limpopo Province	Roads. Design and supervise the upgrading of several roads damaged by storms and no proper maintenance. Design, compiling contract documents and supervision. Soil investigations were very important to obtain suitable gravel for the wearing coarse. Dealing with stormwater. Dealing with local communities.	Department of Public works	01/97	12/97	7.00
Road D336 : Thabazimbi	Rehabilitation of 38km tarred road	Limpopo Province Road Agency	11/00	04/01	6.00
Nsami Dam road : Giyani	Regravelling of 7km road and paving of Nsami dam crest road	Limpopo Province Road Agency	01/00	05/00	2.50
Lubaleko Road T99: Mount Ayliff EC	Design, supervision and construction management of the 12km Lubaleko Road T99 in Mount Ayliff. The road construction included bulk earthworks, the construction of drainage structures including 3 low level stream crossings and the gravel wearing coarse for a 8m wide gravel road.	Wild Coast District Council	05/00	06/00	2.00
Road 449 (Dopeni Tshire) : Louis Trichardt	Rehabilitation of storm damage	Limpopo Province Road Agency	06/00	01/01	0.50
Tonti Access Road - Mount Ayliff	Design, supervision and construction management of the 8km Tonti Dedelo School access Road in Mount Ayliff. The road construction included bulk earthworks, the construction of drainage structures and the gravel wearing coarse for a 5,4m wide gravel road	Alfred Nzo District Municipality	03/01	11/01	1.40
Road D2219 : Jane Furse	Rehabilitation of 46km tarred road	Limpopo Province Road Agency	07/01	11/01	3.20
Middle Letaba Dam crest road	Refurbishment	DWAF	08/01	10/01	1.10
Kinirapoort, Setabataba, Lekhalong access roads: Mount Fletcher EC	Design, supervision and construction management of the 5km Kinirapoort, the 3km Setabataba and the 8km Lekhalong access roads in Mount Fletcher. The road construction includes bulk earthworks, the construction of drainage structures, low level stream crossings and the gravel wearing coarse for a 5,5m wide gravel road.	Wild Coast District Council	08/01	05/01	3.70
Rehabilitation of Road P62/2 : Monsterlus	Rehabilitation of existing surfaced road. 5.7km reseal and 9.3 km of patching, reconstructing shoulders and applying a fogspray	Roads Agency Limpopo	03/02	11/03	3.00
Rehabilitation of Road P134/3 : Groothoek 0 Immerpan	The rehabilitation of 25.8 km of existing, surfaced road. First 7.1 km rebuild the rest patching and general rehabilitation	Roads Agency Limpopo	08/03	11/04	5.00
Giyani Nkomo Road	Design, documentation, tender adjudication and supervision of 15.3 km of surfaced road. Design included stormwater design, horizontal and vertical alignments, geotechnical aspects and surfacing design	Roads Agency Limpopo	09/01	03/04	22.60
Lundean's Nek to Tellebridge	Rehabilitation of road and construction of drainage structure for 39km gravel road.	Dept of Public Works and Roads - Eastern Cape	10/01	08/02	7.4
Sweetwaters Roads: KwaZulu-Natal	Construction of 5 access roads of total length 2,7km.	Umgungundlovu District Mun	11/03	04/04	0.5

Access Road to Fetagkomo Municipality	Upgrading of access road with paving blocks	Greater Sekhukhune District Municipality	10/05	02/07	2.00
Mbuzini Road	Design of access road between Thambokulu and Mbuzini	Mpumalanga Roads & Transport	09/05	Not awarded yet	20.00
Giyani Makhado Road	Rehabilitation of road P99/1, between Makhado and Shirley	Roads Agency Limpopo	09/05	03/07	7.00
h) BRIDGE STRUCTURES (See also g) For Bridges included & e) For Pipe Bridges)					
Nebo District Causeways : Labour Intensive : Limpopo Province	Bridges : Design, supervision and construction management of low level bridges constructed by means of labour intensive construction methods by inexperienced emerging contractors. The structures were constructed using masonry methods.	Vhembe District Council	01/97	12/97	1.75
Reconstruction of Bridges in the Drakensberg Region: Eastern Cape	Bridges: Design, supervision and construction management of the remedial work undertaken to repair flood damage to a two span reinforced concrete bridge on DR8560 and a two span reinforced concrete bridge on DR8606	Department of Public Works: Eastern Cape	01/00	12/00	1.00
Reconstruction of Bridge in the Drakensberg Region: Eastern Cape	Design, supervision and construction management of the Balloch Bridge on DR3222. The bridge is a single span 15m reinforced concrete structure.	Department of Public Works: Eastern Cape	06/01	12/01	1.20
i) SPORTS GROUNDS					
Nsiken Sportsfield - uMzimkhulu	Construction of a new sports facility. Construction of a grass athletics track and soccer field, change rooms, irrigation, concrete pavilion and a concrete palisade fence. Gravel access road and concrete combination court.	Umzimkhulu Local Municipality: Funded by MIG	02/2008	12/2008	R4 M
Qongwana Sports Facilities	Construction of a new sports facility. Construction of a grass soccer field, an ablution facility and a concrete palisade perimeter fence.	uMkhanyakude District Municipality: Funded by NLDTF	10/2007	03/2008	R1.5 M
i) SITE SERVICES / AIRPORT / SPORTS GROUNDS					
Giyani Airport Upgrading	Airport Planning. Design, supervision. Extension of existing gravel runway and providing bituminous surfacing.	Department of Public Works	01/87	12/87	0.88
Nkowankowa Stadium, Pavilion and Athletic track	Design, specification and construction monitoring of steel pavilion, and construction of synthetic athletic track	Greater Tzaneen Municipality	11/05	12/06	11.10
Dilokong Mining Site : Sekhukhuneland : Limpopo Province	Site Services and sludge treatment. Design and construction supervision of : Reinforced concrete footings for heavy mining equipment. Circular concrete thickener for sludge treatment. Rehabilitation of pump station.	Dilokong Mine	01/89	12/90	2.63
Polokwane Airport	Airport Planning & Upgrading. Design of a new civil airport to upgrade the existing airport. Master plan. New International terminal building - reinforced concrete and structural steel construction. New fire protection terminal building. New access road . Water supply. Sewage and water reticulation.	Polokwane TLC	01/89	12/91	6.13
Atteridgeville Super Stadium	Site Services. New sports complexes. Design, construction and supervision of bowling greens, soft ball field, soccer field, tennis courts, basket ball courts, ablution facilities, caretakers cottage, grassing and irrigation, water supply and sewage disposal, stormwater, steel palisade security fencing, indoor sports facility , pavilions. Planning, architectural design and detailing.	Tshwane Municipality	06/96	10/00	80.00

i) SITE SERVICES / AIRPORT / SPORTS GROUNDS (Cont)					
Eskom Radio Station Sites	Construction Supervision & Project Management, liaison with land owners.	Eskom	11/96	06/99	16.00
Security Fences for Prisons at Nylstroom, Barberton & Polokwane	Site Services & Fencing. Design and supervision of electrified security fencing for three prisons. A monitoring system enables personnel to detect defects and attempts of tampering from a central guard room. Detailing, supervision and contract administration.	Department of Public Works	01/98	12/98	3.15
Atteridgeville Super Sport Stadium Grounds : Bulk earthworks & sports field development Pretoria	Site Services. Water and sewage reticulation, earthworks terrace, reinforced concrete pavilion, turf irrigation, stormwater drainage. Structural detailing.	Pretoria Metro	01/98	2008	5.00
Viking Park Business Place	Design, Documentation and Contract Supervision of 16 ha industrial township comprising site levelling, water and sewer services, streets, stormwater systems.	PDS Development : Cape Town	01/98	12/98	1.58
GF Jooste Hospital : Cape Town	See also 2	Cape Town Metro	01/99	12.99	1.23
Murhologo Stormwater Diversion Channel : Giyani Town	Refurbishment of flood damaged lined stormwater channel	DWAF	06/01	09/01	0.60
Forensic Laboratory Cape Town	Design of parking areas, widening of access road and stormwater	Department of Public Works (Cape)	02/04	03/10	1.80
Nkowankowa Tennis Courts	Design, specification and construction monitoring of tennis, volleyball and netball courts at Nkowankowa and Lenyenyane and construction of pavilion including ticket offices and supply of sporting equipment. Capacity building to sporting codes of sport council	Greater Tzaneen Municipality	06/05	06/06	3.90
Nkhensani Hospital Road	Design (of tarred road and storm water) and construction monitoring of 2.2 km link road and culvert at Murhologo stream crossing	Greater Giyani Local Municipality	01/06	04/07	4.50
Dinaledi School	Design of civil services including earthworks terraces	Department of Education	11/07	Not awarded yet	0.80
Circuit Offices : Services	Design of all municipal services and roadworks for five circuit office sites	Department of Education	08/07	06/08	22.00
Monument Park Office Buildings	Engineering design of multi storey office blocks, site works and services	Monument Park (Pty) Ltd	2003	2008	40.00
k) STORAGE DAMS					
Makuleke Dam : Limpopo Province	Dam : Design, construction supervision and construction management of a 13 Mm ³ capacity dam consisting of a 16m high earth embankment and side channel overflow. Water supply is for irrigation.	DWAF	01/85	12/87	3.85
Bevenson Dam : KwaZulu Natal	Dam : The project involved detailed feasibility and economic viability assessments, design and construction of 20m earth embankment dam. Included in analyses were crop selection and financial analyses of irrigation activities as part of cost-benefit investigations. Post-construction activities included changes to wall and spillway to comply with new dam safety regulations.	Gluckstadt Irrigation Board	10/86	01/88	1.40

Various localities throughout the Republic	Dam Safety Inspections in terms of the dam safety legislation - Dams reviewed: Kramerdam Komrie dam Koppie Alleen dam Seshego dam Dap Naude Dam Rookpoort dam	Various owners of the dams and Polokwane TLC			
Taung Dam : Northwest Province	Dam : Design, construction supervision and construction management of a 56 Mm ³ capacity dam consisting of a rollcrete mass gravity wall with uncontrolled ogee-shaped centre spillway. It constitutes some 132 000 m ³ of roller compacted concrete. Water supply is for irrigation and domestic use. Dam classifies as a Category III dam in terms of Dam Safety Legislation. Detailing.	DWAF	01/90	09/94	49.00
Flood Damage Repairs : Limpopo Province	Rehabilitation of flood damage at the following dams : Middle Letaba : Edinburgh / Acornhoek	DWAF	04/01	03/02	3.00
Abstraction Weirs Tshifire and Tshedza : Limpopo Province	Concrete weirs and abstraction works for primary water supply scheme	DWAF	11/00	11/01	12.50
Lydenburg Dam Study	Study	Thaba Chweu	06	06	0.80 Fees
Dap Naudé / Seshego Dam	Concrete & earthwork betterment to comply with dam safety requirements	Polokwane Municipality	07	08	10.50
I) IRRIGATION DEVELOPMENT					
Mhinga Irrigation : Limpopo Province	Irrigation. Design and construction management of 75ha coffee irrigation scheme. Rehabilitation of pump stations.	Department of Agriculture	01/87	12/88	1.23
Makatini : KwaZulu Natal	Irrigation. The Makatini Irrigation Scheme is the largest scheme in South Africa formed by emerging farmers. Our activities included the planning, design and construction supervision of some 1360 ha of irrigation subdivided into 10ha plots and served by two pump stations of 2.5 MW installed capacity each. In addition ongoing activities on the upgrading, maintenance and management planning have been undertaken on the overall scheme with a total area of 3950ha.	Department of Agriculture	06/85		38.85
Ndombeni Nkunduse Irrigation Scheme : KwaZulu Natal	Irrigation planning for 800 ha of sugar cane development for emerging farmers on Hluhluwe River. Detailed socio-economic study was followed by engineering technical and agricultural analysis to prove viability. Not implemented due to lack of financing.	Department of Agriculture	05/86	06/89	7.00
Grootklip Irrigation : Limpopo Province	Irrigation. Design and construction management of 80 ha irrigation scheme comprising balancing dam, pump station, main supply pipelines, field layout, infield subsurface pipework, microjet irrigation system.	Department of Agriculture	01/87	09/87	0.70
Dumfries Irrigation Scheme : Limpopo Province	Irrigation. Design and construction supervision of a 250ha irrigation scheme with concrete lined canals, pump stations, mechanised and microjet irrigation systems.	Department of Agriculture	01/88	12/89	10.50
Giyani Township raw water supply :Limpopo Province	Raw water supply for irrigation of Golf course and Parks. Design and construction management of balancing dam and gravity feed to golf course and parks.	Department of Agriculture	01/88	12/88	1.40
Zoeknog Coffee Scheme : Bushbuckridge Limpopo Province	Irrigation. Design and construction management of 100 ha coffee irrigation scheme, comprising pump station, main supply pipelines, field layout, infield subsurface pipework, microjet irrigation system.	Lebowa Water Affairs Department	01/90	12/93	11.38

I) IRRIGATION DEVELOPMENT (Cont)

Makuleke Irrigation Scheme : Limpopo Province	Irrigation. Design and construction management of 200ha irrigation scheme comprising 4km concrete lined canal, balancing dam, pump station, main supply pipelines, field layout, infield subsurface pipework, sprinkler irrigation system.	Department of Agriculture	01/90	12/91	8.40
Tugela Estates : Limpopo Province	Irrigation. A detailed feasibility study on the upgrading of the 600 ha Tugela Estates Irrigation scheme addressed social, land tenure, pedological and economic issues. Implementation of proposals were postponed due to lack of government funding.	Department of Agriculture	01/90	06/93	1.05
Nwanedi River Pumps : Limpopo Province	Irrigation. Design and construction management of 10 transportable pumping installations (875 kW installed) to augment the supply to an existing irrigation scheme.	Department of Agriculture	01/91	12/91	1.93
Tugela Ferry : KwaZulu Natal	Irrigation (470 ha). Upgrading of a 470 ha flood irrigation scheme through improvements to the canal system and construction of 22 balancing dams for night storage. Activities also included the design of a management system appropriate to the local management capacity and an irrigation scheduling model.	Department of Agriculture	06/91	08/92	2.10
Olifants Irrigation Basic Planning : Limpopo Province	Irrigation. Basic planning and preliminary engineering design for rehabilitation of 1600ha existing flood irrigation and conversion to sprinkler, centre pivot and mechanised irrigation systems.	Department of Agriculture	01/92		52.50
Maphophoma Dam and Irrigation : Limpopo Province	Irrigation. Detailed feasibility study on the proposed Maphophoma irrigation Scheme included design and costing of a storage feasibility, pump station(s) and the irrigation system. The study showed that the scheme was not viable.	Department of Agriculture	07/93		2.63
Ndhengeza Tomato Farm : Limpopo Province	Basic Planning Irrigation 400 ha. Basic planning and preliminary engineering design for irrigation of 400 ha tomatoes.	Department of Agriculture	01/94	12/94	7.88
Letsitele River Bobs Canal : Limpopo Province	Irrigation. Refurbishing existing unlined earth irrigation canal serving 6 farmers by Masonry lining thereof and appurtenant upgrading.	Department of Agriculture	01/94	12/94	2.63
Sabie Hoxani : Bushbuckridge : Limpopo Province	Irrigation : 600ha. Design and construction management of 160 ha irrigation scheme comprising 12 riverine pump stations, main supply pipelines, field layout, infield subsurface pipework and various irrigation systems for tropical fruits.	Department of Agriculture	01/94	12/94	10.50
Community Gardens & Small Farming Development : Limpopo Province	Irrigation. The assignment consisted of : community liaison, identifying suitable agricultural land using laboratory tests, identifying and developing irrigation water sources, design, supervision and management (financial control) of every garden.	Department of Agriculture	01/97	12/99	26.25
Lower Letaba irrigation Development Study : Limpopo Province	Irrigation. Comprehensive study for the irrigation of 2000 ha sub-tropical farming by small farmers on 14 ha units comprising further piped and open canal conveyance systems, night water storage dams and pumping stations for irrigation, irrigation inland systems. Also including economic evaluations.	Department of Agriculture	01/97	12/97	70.00
Bon Accord Irrigation System : Pretoria	Irrigation, planning, liaison, negotiation with land owners, design, construction monitoring of existing irrigation canals & appurtenant constructions.	Bon Accord Irrigation Board (GauTrans)	01/98	12/99	3.50

I) IRRIGATION DEVELOPMENT (Cont)					
Middle Letaba Study on Refurbishment Requirements : Limpopo Province	Irrigation. Study on the refurbishment of 300 ha irrigation scheme comprising 5 pump stations, main supply pipelines, revised field layout, sprinkler and drip irrigation systems.	DWAF	01/98	12/99	
Middle Letaba Study on Refurbishment Requirements : Limpopo Province	Irrigation. Study on the refurbishment of 300 ha irrigation scheme comprising 5 pump stations, main supply pipelines, revised field layout, sprinkler and drip irrigation systems.	DWAF	01/98	12/99	
Nkosazana Irrigation Scheme : KwaZulu Natal	Irrigation. Feasibility planning for 250ha sugar cane development for emerging farmers. Results showed that provision of irrigation was not economically viable and that dry land development should be adopted	Department of Agriculture	03/98	08/98	3.50
Makhatini Irrigation Scheme: Refurbishment - KwaZulu-Natal	Design, specification and contract supervision/management for the refurbishment of 23 irrigation plots on the Makhatini Irrigation Scheme, comprising the installation of some 22km of PVC pipes and appurtenant works.	Independent Development Trust	03/01	10/01	2.30
Irrigation Water Meter Systems : Ohrigstad	Rehabilitation of bulk irrigation water supply comprising electro-magnetic flow meters on 102 installations (civil, mechanical and electrical works)	DWAF	04/01	07/02	4.80
Malisibane Irrigation	Repairs flood damaged supply mains & pumps (Capricorn)	Department of Agriculture Limpopo Province	08/03	09/03	0.30
Mecklenburg Weir Repairs	Repairs to flood damaged weir, main canal head works & sediment trap (Capricorn)	Department of Agriculture Limpopo Province	09/02	01/03	0.60
Nwanedi Irrigation Scheme	Repairs to flood damaged river pump station (Vhembe)	Department of Agriculture Limpopo Province	09/03	04/04	0.50
Makhatini Irrigation Scheme: Pump Station Refurbishment - KwaZulu-Natal	Refurbishment of 6 pump stations and appurtenant works.	Department of Agriculture & Environmental Affairs	01/02	10/03	10.5
Makhatini KwaZulu-Natal	Proposed utilization of clay soils for 1300ha cotton production under centre pivot irrigation.	Makhatini Cotton	02/04	03/04	Study
Middle Letaba Canal Repair	Refurbishment of the Middle Letaba dam to Giyani main water supply canal	DWAF	08/07	03/10	15.00
Limpopo Resis Programme	Planning the revitalization of 3 093 ha irrigation schemes	Limpopo Department of Agriculture	06/06	03/08	8.00 Fees
m) STUDIES / PEER REVIEWS/ PROJECT COORDINATION					
KwaZulu Catchment Development Potential Study	The agricultural development potential to the then homeland of KwaZulu was assessed and proposals made for the exploitation of this potential with particular reference to the utilization of the water sources. Issues addressed included agriculture (dry land and irrigated), forestry, rural domestic water supply demand assessment and resources and a comprehensive database on climate, hydrology, population and social services.	KwaZulu Natal Department of Agriculture	02/86	07/90	1.05
Financial Modelling of Rural Water Supply Bohlabela District	Water Supply. Study on the following aspects of rural water supply. Costs, optimisation, design norms, field and case studies, drawings and workshops	DWAF	01/96	12/96	Study

m) STUDIES / PEER REVIEWS/ PROJECT COORDINATION (Cont)					
Town & Regional Planning : Engineering Assistance	a) Giyani Town Structure Plan b) Giyani District & Lower Letaba Area : Regional Planning c) Greater Waterval Urban Plan d) Piesangfontein Structural Plan e) Giyani Hlanganani Regional Development	Department of Internal Affairs	01/87	12/94	Study
Mutlumuvhi / Sand System Hydrology	Hydrological study of run-of-the-river including instream river flow requirements for a major catchment area.	DWAF	01/87	12/87	Study
Bophuthatswana Water Plan	Comprehensive evaluation of water sources and demands for an entire geographic region.	DWAF	01/87	12/91	Study
Peer Reviews	Masisi Township, Venda & Inyaka Dam Project Review	Development Bank of SA	01/89	12/92	
Giyani / Hlanganani Sub-Regional Water Engineering Planning : Limpopo Province	Engineering Study comprising of all water related aspects in two sub districts	Department of Internal Affairs	01/94	12/94	Study
Specifications for soil conservation plant and equipment : Limpopo	Engineering specifications for tendering purposes for the supply of various items of agricultural production equipment	Department of Agriculture Limpopo Province	01/94	12/95	5.25
Middle Letaba & Hudson Ntsanwisi Dams Operating Rules : Giyani Limpopo Province	Hydrological study of storage draft at two interlinked major dams and the establishment of dam operating rules therefrom.	Development Bank of South Africa	01/94	12/94	Study
Rural Water Supply Financial Model : Bushbuckridge	Study of all water supply and water distribution related aspects on capital development, refurbishment and operation and maintenance costs for an area populated by 500 000 people.	DWAF	01/97	12/97	Study
Polokwane Ext 40 : Town Planning Assistance	Engineering Project Planning & Services of an urban industrial township	Polokwane TLC	01/97	04/98	10.50
Department of Water Affairs Community Water Supply, Sanitation Strategic Study Limpopo Province: Study Leader & Designated Engineer Mopani District: AO Eksteen	This study comprised data collection; reporting on population, water resources, infrastructure, institutional, management, sanitation, economics, socio economics, environment, development plans, projects; formulation of a first order provincial water and sanitation development strategy; forum facilitation and various special tasks on water and sanitation related matters.	Development Bank of South Africa	01/95	Ongoing	Study
Guide Plan for Rural Agricultural Engineering : Limpopo Province	Study of all the rural agricultural engineering development requirements in the Giyani Area	Department of Agricultural Limpopo Province	01/98	12/98	Study
Water Use Survey	Registration of water users in the Limpopo Province Letaba catchment area in accordance with the WARMS Programme. Provincial coordination of other catchment areas (Limpopo and Luvuvhu)	DWAF	10/00	09/01	2.0
Water Services Business Evaluation Plan Manual	Development of a Water Services Business evaluation plan manual to assure sustainable water services in SA	DWAF	01/01	Ongoing	Study
Flood Damage to Water Infrastructure : Limpopo Province	Assessment and preparation of PBP and 4 addendums	DWAF	06/00	06/01	Study

m) STUDIES / PEER REVIEWS/ PROJECT COORDINATION (Cont)					
Water Services Maintenance Tenders :RSA National	Preparation of standard tender documents for civil, structural & mechanical engineering documents	DWAF	01/01	06/01	-
Flood Damage Assessment : Lisbon Citrus Estates	Detailed evaluation of extensive flood damage (R26M) to irrigation water supply infrastructure.	Fedsure	04/00	07/00	Study
Cabane Water Supply project - Umzimkulu - Eastern Cape	A detail feasibility study for the implementation of a water supply scheme at the village of Cabane utilizing Micro Hydro Electrical Technology.	DWAF	03/99	04/99	Study
Thukela /Mooi Valley Development study: KwaZulu Natal	The KwaZulu Natal Department of Agriculture identified the need for an optimal rural farming plan for agricultural development in the Mooi and Tugela river valleys. This study was undertaken to do a situational assessment towards - unlocking the underutilised potential of the area - assuring a regular food supply to the local populace - enhancing agriculture in the economic development of the province	KwaZulu Natal Department of Agriculture	03/01	05/01	Study
Feasibility Study: Hluhluwe Water Supply Scheme: KwaZulu-Natal	The study comprised an investigation into the utilization of the Hluhluwe dam for domestic water supply. The area included the Mpukunyoni, Makasa, Nibela and Mnqobokazi wards, low lying areas of the Mdlletshe ward as well as the towns of Mtubatuba and Hluhluwe.	Mhlatuze Water	10/96	7/97	Study
Various localities throughout the Republic	Dam Safety Inspections in terms of the dam safety legislation. Dams reviewed: Kramerdam, Komrie dam, Koppie Alleen dam, Seshego dam, Dap Naude Dam & Rookpoort dam	Various owners of the dams and Polokwane Municipality			
Maphophoma Irrigation project: KwaZulu-Natal	Feasibility study into establishing an irrigation project in the Tamu Valley at Mophohoma. The study include an investigation into the construction of a dam in the Tamu river with 98% assured yield of 880000m ³ /annum.	KwaZulu-Natal Department of Agriculture	01/00	03/00	Study
DWAF Water Services Development Plans	Assistance to all water service authorities in Limpopo for the assessment of existing plans (up to 2003), assistance to preparation of updated plans and training of municipal WSDP dedicated officials.	DWAF National	02/04	02/06	3.00
DWAF Forum Support	Support to DWAF Limpopo Provincial Regional Office re. Water sector forums per Water Services Authority and Provincial (sic per annum) as well as ad hoc support to Regional Office.	DWAF Limpopo	03/04	03/06	3.00
Bohlabela District Development Plan	Study with main purpose the determination of a development program for bulk water services provision. Detailed evaluation thereof was done and costed. Water Services Funding Programs catered for household sanitation, refurbishment, upgrading and water reticulation. These elements were included to ensure their costing. The study was modelled to supplement / augment the Water Services Development Plan.	DWAF Limpopo	11/02	11/03	1.70
Mopani District Development Plan	Study with main purpose the determination of a development program for bulk water services provision. Detailed evaluation thereof was done and costed. Water Services Funding Programs catered for household sanitation, refurbishment, upgrading and water reticulation. These elements were included to ensure their costing. The study was modelled to supplement / augment the Water Services Development Plan.	DWAF Limpopo	11/02	11/03	1.70

m) STUDIES / PEER REVIEWS/ PROJECT COORDINATION (Cont)					
Capricorn District Development Plan	Assistance in respect of Polokwane and Molemole Local Municipalities	DWAF Limpopo	03/04	03/05	0.50
Project Feasibility Studies and PBP's	Project feasibility studies of the following localities in Limpopo Province : Tshakhuma, De Hoop, Olifantspoort, Maruleng, Giyani Bulk, Sekgopo, System N, System M, Houtrivier, Tshifhire Murunwa	DWAF Limpopo	06/02	06/03	2.00
Polokwane Bicycle Path Study	Traffic study to implement bicycle pathways	Department of Public Works		2005	0.10 Fees
Studies of Water Services	Reconnaissance studies: Project scoping, water balance, strategic development proposals based on options analysis	DWAF	2005	2006	1.10
Limpopo Reference Framework	Water services topic (9no) evaluations to serve as guide/reference to WSA's in preparation of WSDP's	DWAF	1996	2006	0.05 p/m
Water Services Development Plan	Preparation, interaction with stakeholders, approval by WSA Councils & registration with DWAF	Mopani District Municipality / DWAF	2006	2006	0.45 Fees
Water Services Development Plan	Preparation, interaction with stakeholders, approval by WSA Councils & registration with DWAF : update	Mopani District Municipality / DWAF		2008	0.20 Fees
Malamulele East Rural Water Supply	Survey of status quo of Malamulele east villages reticulation and storage reservoir and determination of requirements, including Malamulele town	Vhembe District Municipality	2006	2006	0.80 Fees
Feasibility Studies : 6no	Project scoping, water balance, strategic development proposals based on options analysis	Vhembe District Municipality		2006	0.30 Fees
Water Services Development Plan : Bushbuckridge	Preparation, interaction with stakeholders, approval by WSA Councils & registration with DWAF	Tumber Fourie		2006	0.25 Fees
BBR Midlands - Project Co-ordination		Bushbuckridge Local Municipality		2006	0.40 Fees
Lydenburg Dam - Flood Gates	Preliminary design	Thaba Chweu Municipality		2006	0.60 Fees
Water Services Development Plan	Preparation, interaction with stakeholders, approval by WSA Councils & registration with DWAF	Polokwane LM		2006	0.39 Fees
Water Supply to Schools: Coordination		DWAF		2009	2.00 Fees
Feasibility Study: Nwamitwa	Project scoping, water balance, strategic development proposals based on options analysis	DWAF		2008	0.50
Feasibility Study: Mogalakwena/Glen Alpine	Project scoping, water balance, strategic development proposals based on options analysis	DWAF		2008	0.90
Feasibility Study: Nzhelele	Project scoping, water balance, strategic development proposals based on options analysis	DWAF		2008	0.60
Olifantspoort Preliminary Design Outstanding Phases	Preliminary design of reminder of Olifantspoort Regional Water Supply Scheme	Greater Sekhukhune District Municipality	2007	2008	3.00 Fees
Bushbuckridge Capital Projects Coordination		Bushbuckridge Local Municipality	2007	2009	1.6 Fees