

Wastewater Treatment Projects

Our project Team has had detailed involvement in the following projects:

Project Name and Description	Services Performed	Location	Project Value	Completion Date	Owner/Client Details
ORTDM Regional Management Support Services Green Drop: Regional Management Support <i>Involved: CJ van der Walt, M Kruger, LJ Krouwkamp</i>	Municipal support on technical, financial and HT issues	Eastern Cape	R33 mil	Current	Municipal Infrastructure Support Agent (MISA) Temba Dlatla 012 - 8485318 Work performed as part of EOH Mthombo Group
Vhembe District Municipality: Nancefield WWTW Green Drop Support <i>Involved: AD Ceronio, JA Coetzee, LJ Krouwkamp</i>	Detailed process audit	Limpopo	R194,000	Current	Vhembe District Municipality 015 - 9621839 Work performed as part of the Dinoko-CSV Joint Venture
Phalaborwa Wastewater Treatment Works Development of a Wastewater Treatment Works Turn-around plan <i>Involved: AD Ceronio, M Kruger</i>	Detailed process audit	Phalaborwa	R50,000	Current	Watergroup Holdings Dr M. vd Merwe-Botha 011 - 954 0242
Sasolburg Wastewater Treatment Works Detailed Process Audit <i>Involved: AD Ceronio, M Kruger</i>	Detailed process audit	Sasolburg	R51,000	Current	Watergroup Holdings Dr M. vd Merwe-Botha 011 - 954 0242
Sembcorp Silulumanzi Kanyamazane WWTW, Kingstonvale WWTW and Matsulu WWTW <i>Involved: CJ vd Walt, M Kruger, LJ Krouwkamp</i>	Process Audits includes performance assessment, major unit process evaluation, design assessment, operations and maintenance assessment, prioritization of findings and incorporation into risk assessment	Mpumalanga	R345,000	Current	Sembcorp Silulumanzi Yolanda Oosthuizen 013 - 7526839

PROJECT EXPERIENCE



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CSIR Specialist Services to CSIR to Review and Update Red Book <i>Involved: AD Ceronio, G Vlok</i>	Consulting on updating national guidelines on water, sanitation and stormwater infrastructure provision under the patronage of the CSIR	Pretoria	R500,000	Current	CSIR Mr Thinus Kruger 012 841 2595
Department Public Works Green Drop Audits <i>Involved: AD Ceronio, CJ vd Walt, M Kruger, LZ Coetzee, LJ Krouwkamp</i>	Process Audits and knowledge share performed on 82 DPW WWTW in a 6 month period with input to teams responsible for W2RAPs, sludge management plans, operations and maintenance manuals and flow metering	Country Wide	R3.6 mil	Current <u>Duration</u> 12 months	Department of Public Works Tshepiso Makgoale PMO in the Office of the DG: Water Management Programme Tshepiso.Maja@dpw.gov.za 012 406 1186 Work performed as part of the Entsika-WaterGroup Consortium
DBSA Ekurhuleni Infrastructure Delivery Programme (EIDP) <i>Involved: CJ vd Walt M Kruger</i>	Feasibility Study: Wastewater Reclamation Programme (19 ERWAT WWTW)	Gauteng	R3.5 mil	Current	Ekurhuleni Metropolitan Municipality Dumisani Gubuza 083 412 9458 Work performed as part of the Wayo Consulting Consortium
Magaliesburg WWTW Extension of 3.5 Ml/d Activated Sludge Treatment Plant to 7Ml/d <i>Involved : M Kruger G Vlok G Makwanyane JA Coetzee LJ Krouwkamp</i>	Preliminary and detail design, tender procedures, site supervision, contract administration for civil/mech/elec and C&I work	Krugersdorp	R25 mil	Current <u>Duration:</u> 3 years	PRO-PLAN Consulting Engineers Mr A. Coetzer 011 954 4441
Zuurbekom WWTW Design of new regional wastewater plant for Westonaria : 80 Ml/d <i>Involved: A Smith CJ vd Walt G Vlok M Kruger G Makwanyane JA Coetzee LJ Krouwkamp</i>	Feasibility study, design, tender procedures, site supervision, contract administration for civil/mech/elec and C&I work	Westonaria	R 280 mil	Current <u>Duration:</u> 4 years	PRO-PLAN Consulting Engineers Mr A. Coetzer 011 954 4441
Lindley Wastewater Treatment Plant Construction of new 40 Ml/d Regional Wastewater Treatment Plant <i>Involved: A Smith CJ van der Walt G Vlok, M Kruger GT Makwanyane JA Coetzee</i>	Feasibility study, design and project management	Gauteng	R 400 mil	Current <u>Duration:</u> 3 years	PRO-PLAN Consulting Engineers Mr J. Beukes 011 954 4441

PROJECT EXPERIENCE



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Welverdiend WWTP : Upgrading Extension : 15 Ml/d <i>Involved : CJ vd Walt A Smith M Kruger JA Coetzee</i>	Preliminary and detail design, tender procedures, site supervision, contract administration for civil/mech work, OHS Compliance	Merafong City	R 150 mil	Current <u>Duration:</u> 3 years	PRO-PLAN Consulting Engineers Mr A. Coetzer 011 954 4441
Botshabelo Wastewater Treatment Works Extension and Refurbishment <i>Involved: AD Ceronio A Smith G Vlok M Kruger GT Makwanyane JA Coetzee</i>	Preliminary design, details design, tender compilation	Botshabelo, Mangaung Free State Province	R3.1 mil	2016	Watergroup Holdings Dr M. vd Merwe-Botha 011 - 954 0242
DWS: Construction Unit (North-West) Matjabeng LM sewage masterplan <i>Involved: CJ vd Walt, LJ Krouwkamp</i>	Consolidation of various sewage treatment plants with a view of reclamation	Free State	R490 000	2016	DWS, Construction Mr Paul Kruger 082 801 5128
Olifantsfontein Wastewater Care Works Engineering services for hydraulic and treatment capacity study <i>Involved: T Smith, M Kruger</i>	Process, hydraulic and reporting on the efficiency of the various existing unit processes	Gauteng	R25,000	2016	ERWAT Karabo Nthethe 011 – 929 7019
Stellenbosch LM Wastewater Treatment Plants Green Drop support to the Klapmuts, Raithby, Pniel and Wemmershoek WWTWs <i>Involved: AD Ceronio M Kruger</i>	Process Audits, W ₂ RAP, intervention implementation plan	Stellenbosch	R 0.35 mil (Fee)	2014	Watergroup Holdings Dr M. vd Merwe-Botha 011 - 954 0242
Sasol Chemical Industries: Wastewater Treatment Works Evaluation of Expansion Requirements <i>Involved: A Smith AD Ceronio GT Makwanyane</i>	Conceptual and basic design report, detail design, tender documentation, tender procedures, contract administration, site supervision, OHS compliance	Secunda	R49 mil	2014	Watergroup Holdings Dr M. vd Merwe-Botha 011 - 954 0242
Wastewater Treatment Plant Green Drop Audits Specialist audits of various WWTPs <i>Involved: AD Ceronio A Smith CJ vd Walt M Kruger LZ Coetzee</i>	A detailed audit of the design, operation and maintenance of the plant and recommendations regarding improvements	Various	R 0,4 mil	2014	Department of Water Affairs Mrs M. Mupariwa 012 336 6938

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Hannes van Niekerk WWTW Extension : 24 Ml/d <i>Involved: A Smith CJ vd Walt G Vlok M Kruger G Makwanyane</i>	Feasibility study, design, tender procedures, site supervision, contract administration for civil/mech/elec and C&I work, OHS compliance	Westonaria	R 160 mil	2014	PRO-PLAN Consulting Engineers Mr A. Coetzer 011 954 4441
Municipal Assistance (Ngwathe & Mohokare LM) Green Drop Compliance <i>Involved: AD Ceronio LZ Coetzee</i>	Blue and Green Drop Assessment; Blue and Green Drop Improvement Plans; short and medium term Action Plans, Development of Control and Monitoring Tools, Water Safety Plans, Wastewater Risk Abatement Plan	Parys	R390,000	2013	PRO-PLAN Consulting Engineers Dr Aussie Austin 011 954 4441
Create and Implement a Strategy for the Management of the Green Drop System <i>Involved: AD Ceronio M Kruger LZ Coetzee</i>	Various projects with the specific intent of integrating Green Drop principles into ERWAT's daily operations and management activities. Specific focus areas are GDIPs, W2RAPs, Process Audits and Operational Manuals	Gauteng	R 1,7 mil	2013	ERWAT Mr Fortune Mabunda 011 - 929 7130
Ngwathe Wastewater Treatment Works Vredefort, Koppies, Parys, Edenville and Heilbron <i>Involved: A Smith CJ van der Walt M Kruger GT Makwanyane</i>	Feasibility study	Gauteng	R750,000	2013	Umzingwane Construction & Projects Mr A. Ndlovu 011 – 312 7879
Leandra Wastewater Treatment Plant Feasibility Study and Process Design <i>Involved: AD Ceronio, M Kruger</i>	Process design	Leandra	R 142 mil (Est)	Nov 2013	LTE Consulting Engineers Mr Theo Kleynhans 011 – 314 4456
Mogale City Local Municipality: Process Audits for Green Drop Requirement Flip Human WWTW, Magalies WWTW & Percy Steward WWTW <i>Involved: M Kruger LZ Coetzee</i>	Detailed process audit on functionality of plant process train and associated civil, mechanical and electrical equipment	Gauteng	R 180 000	2013	Mogale City Local Municipality Elize Mare 083 767 1902
Mogale City Local Municipality: Risk Assessment <i>Involved: M Kruger LZ Coetzee</i>	Risk assessment on the WWTPs and to review the Incident Management Protocol	Gauteng	R 145 000	2013	Mogale City Local Municipality Elize Mare 083 767 1902

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Thabong Wastewater Treatment Plant Scoping report <i>Involved: AD Ceronio, M Kruger</i>	Scoping report	Leandra	R 166,000 (Est)	2012	LTE Consulting Engineers Mr Theo Kleynhans 011 – 314 4456
Stellenbosch Wastewater Treatment Plant Emergency interventions <i>Involved: AD Ceronio, A Smith, M Kruger, GT Makwanyane</i>	Process Audits, W ₂ RAP, intervention implementation plan	Stellenbosch	R 0.2 mil (Fee)	Sept 2012	Watergroup Holdings Dr M. vd Merwe-Botha 011 - 954 0242
Thabong Wastewater Treatment Plant Capacity Expansions <i>Involved: AD Ceronio, M Kruger</i>	Scoping report	Welkom	R 370 mil (Est)	May 2012	Watergroup Holdings Dr M. vd Merwe-Botha 011 - 954 0242
Process Audits for Green Drop Requirement Nkwankowa WWTW & Lenyenye WWTW <i>Involved: M Kruger</i>	Detailed process audit on functionality of plant process train and associated civil, mechanical and electrical equipment	Limpopo	R 130,000	2012	Tzaneen Local Municipality Paradise Shilowa 079 905 9013
Flip Human WWTW: Mechanical Refurbishment <i>Involved: A Smith CJ vd Walt M Kruger</i>	Needs analysis, tender procedures, contract administration, OHS compliance	Mogale City	R 8.5 mill	2012	PRO-PLAN Consulting Engineers Mr A. Coetzer 011 954 4441
Hannes van Niekerk Emergency : Mechanical Refurbishment <i>Involved : CJ vd Walt A Smith M Kruger</i>	Needs analysis, tender procedures, site supervision, contract administration, OHS compliance	Westonaria	R13 mil	2012	PRO-PLAN Consulting Engineers Mr A. Coetzer 011 954 4441
Wastewater Treatment Systems, Processes and Compliance Various drinking and wastewater assignments <i>Involved: A Smith M Kruger</i>	Process audit, risk abatement plan, water use licences, asset register, incident management protocol and Green Drop criteria	Siyabuswa	R1.2 mil	2012	Dr JS Moroka Local Municipality Mr L.E. Babedi 013 973 0821
Lagerspoort Bottling Plant WWTW <i>Involved: AD Ceronio</i>	Plant and process review	Heidelberg	R4 mill	2012	VelaVKE Mr G. Wentzel 011 339 0600
Green Drop Compliance Develop W ₂ RAP for six wastewater supply systems <i>Involved: LZ Coetzee</i>	Wastewater risk abatement plan, Incident management protocol and Green Drop criteria	Mount Ayliff	R220 000.00	2012	Alfred Nzo District Municipality Ms. B. Khatali 039 254 4500/ 082 7800728

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City of Tshwane : Green Drop Compliance Achieving Green Drop Compliance <i>Involved: LZ Coetzee</i>	Risk abatement plan and Green Drop criteria On behalf of Worley Parsons (KV3)	Pretoria	R210 000	2011	City of Tshwane Mr K Snyman 012 358 0664
Al Shabai Ponds Design of a new oxidation pond system for military base	Detail design, drawings, assistance on contract administration	Iraq	R 1.5 mil	2011	PVA Consulting Engineers 086 110 6256
Burgersdorp Bulk Wastewater Master Plan <i>Involved: AD Ceronio, A Smith, G Makwanyane</i>	Development of Master Plan	Burgersdorp	Ro.1 mil	2011	Joe Gqabi District Municipality Mr R. Fortuin 045 971 0432
Aliwal-North Bulk Wastewater Master Plan <i>Involved: AD Ceronio, A Smith, G Makwanyane</i>	Development of Master Plan	Aliwal-North	Ro.1 mil	2011	Joe Gqabi District Municipality Mr R. Fortuin 045 971 0432
Steve Tshwete Green Drop Assistance <i>Involved: AD Ceronio LZ Coetzee</i>	Compilation of operations manuals, risk abatement plan and incident management protocol in line with Green Drop criteria	Middelburg, Mpumalanga	R150 000	2010	Steve Tshwete Local Municipality Mr E. Warambwa 013 – 249 7207
Skilpadshek WWTW 200 m ³ /day RBC plant designed to cater for border post with large loading variances. Design includes a reedbed to polish the effluent before final discharge <i>Involved: AD Ceronio A Smith G Vlok</i>	Design and tender documentation support to allow Client to perform contract administration, site supervision and project management	Skilpadshek Border Post, North West Province	R 8 mil	2008	Phumaf Professional Engineers 011 789-3727
Rooiwal WWTW Specialist analysis of a pump station which is not performing to expectation <i>Involved: A Smith</i>	Specialist analysis of the system and recommendations regarding its refurbishment	Rooiwal WWTP, Tshwane	R 0,1 mil	2008	Monitor Engineering (Pty) Ltd Mr L. Palmer 011 618 3860
Johannesburg Water WWTW Mechanical design for various unit processes of five BNR type WWTWs <i>Involved: AD Ceronio A Smith G Makwanyane</i>	Design, tender procedures, contract administration, project management for electro-mechanical work	Johannesburg	R 800 mil (total project value) R280 mil (scope of responsibility)	2007	Johannesburg Water Mr R. Dodding 011- 688 1685

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Goudkoppies WWTW Reconfiguring to BNR Process Mech/Elec work <i>Involved: A Smith M Kruger G Makwanyane</i>	Design, tender procedures, contract administration for mech/elec work	Johannesburg	R 5 mil	2007	Johannesburg Water Mr R. Dodding 011- 688 1685
Olifantsvlei WWTW Reconfiguring to BNR Process Mech/Elec work <i>Involved: A Smith M Kruger G Makwanyane</i>	Design, tender procedures, contract administration for mech/elec work	Johannesburg	R 3 mil	2007	Johannesburg Water Mr R. Dodding 011- 688 1685
Johannesburg Northern WWTW NDBEPR Process : 50 Ml/d Mech/Elec work <i>Involved: A Smith M Kruger G Makwanyane</i>	Design, tender procedures, contract administration for mech/elec work	Johannesburg	R 25 mil	2006	Johannesburg Water Mr R. Dodding 011- 688 1685
Buffalo City Municipality Sludge Management Plan Long term strategy development <i>Involved: A Smith</i>	Investigation of sludge management strategies into the future	East London	R 0.25 mil	2005	Buffalo City Municipality 043 705 2000
Bloemhof Sewage Treatment Facility Evaluation of existing facility Report reveals the necessity extension to new works <i>Involved: A Smith</i>	Preliminary investigation into current sewage treatment requirement	Bloemhof North-West	R 0,1 mil	2004	Lekwa-Teemane Local Municipality 053 441 2206
Goreangab Water Reclamation Plant : 21 Ml/d (KfW funded) Treatment of sewage effluent for potable purposes <i>Involved: CJ vd Walt</i>	Design, tender procedures, contract administration, site supervision, project management, OHS compliance	Windhoek, Namibia	R 200 mil	2000	City of Windhoek Mr A. du Toit +264 61 2902339

PROJECT EXPERIENCE



Water Treatment Projects

Our project Team has had detailed involvement in the following projects:

Project Name and Description	Services Performed	Location	Project Value	Completion Date	Owner/Client Details
Mutshedzi Regional Water Scheme Mutshedzi WTP: Extension and Refurbishment <i>Involved: AD Ceronio, CJ vd Walt, A Smith, G Vlok, LJ Krouwkamp, JA Coetzee</i>	Complete all 6 stages for the expansion of the water treatment plant and bulk supply system inclusive of bulk lines, pump stations and reservoirs.	Limpopo	R200 mil	Current	Vhembe District Municipality 015 - 9621839 Work performed as part of TM Africa Engineering Services
ORTDM Regional Management Support Services Blue Drop: Regional Management Support <i>Involved: CJ van der Walt, M Kruger, LJ Krouwkamp</i>	Municipal support on technical, financial and HT issues	Eastern Cape	R33 mil	Current	Municipal Infrastructure Support Agent (MISA) Temba Dlatla 012 - 8485318 Work performed as part of EOH Mthombo Group
Vhembe District Municipality: Albasini, Malamulele and Mutale WTP Blue Drop Support <i>Involved: AD Ceronio, JA Coetzee, LJ Krouwkamp</i>	Detailed process audit	Limpopo	R515,000	Current	Vhembe District Municipality 015 - 9621839 Work performed as part of the Dinoko-CSV Joint Venture
Sembcorp Silulumanzi Karina WTW, Nelspruit New WTW, Nelspruit Old WTW, Matsulu WTW <i>Involved: CJ vd Walt, M Kruger</i>	Process Audits includes performance assessment, major unit process evaluation, design assessment, operations and maintenance assessment, prioritization of findings and incorporation into risk assessment	Mpumalanga	R345,000	Current	Sembcorp Silulumanzi Yolanda Oosthuizen 013 - 7526839
Sembcorp Silulumanzi Karino Water System, Nelspruit Water System, Matsulu Water System <i>Involved: CJ vd Walt, M Kruger</i>	Water Safety Plans includes systems assessment, control measures identification for identified risks and subsequent management plans	Mpumalanga	R40,000	Current	Sembcorp Silulumanzi Yolanda Oosthuizen 013 - 7526839

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Mogalakwena BWSS Hazop Study <i>Involved: CJ vd Walt</i>	Independent HAZOP study lead	Western Cape	R100,000	March 2017	Aurecon Brendon Theunissen 021 5265706
Water Research Commission Utilisation of Open Source software to find the Hidden Relationships in Data Sets and how this can be used to Manage Drinking Water Quality <i>Involved: AD Ceronio, LZ Coetzee</i>	WRC funded research project	Pretoria	R600,000	Current	Water Research Commission Mrs Nonhlanhla Kalebaila 012 – 761 9300
Department Public Works Blue Drop Audits <i>Involved: T Ceronio, C vd Walt, L Coetzee, L Krouwkamp</i>	Process Audits and knowledge share performed on 11 DPW potable water treatment plants in a 6 month period with input to teams responsible for W2RAPs, sludge management plans, operations and maintenance manuals and flow metering.	Country wide	Ro.4 mill	Current <u>Duration</u> 6 months	Department of public Works Tshepiso Makgoale PMO in the Office of the DG: Water Management Programme Tshepiso.Maja@dpw.gov.za 012 406 1186 Work performed as part of the Entsika-WaterGroup Consortium
Zuikerbosch Water Treatment Plant 600 Ml/d extension to the filtration capacity Design and construction of the new filter plant 5A, washwater plant 5A and recovered washwater plant 5A <i>Involved: A Smith GT Makwanyane LJ Krouwkamp</i>	Preliminary design and quality control of the process design, electro/mechanical and C&I design, project management and supervision	Vereeniging, Gauteng	R524 mil	Current <u>Duration:</u> 5 years	Rand Water Mr Rashid Jouley 011 – 682 0483
Rustfontein Water Care Works Extending capacity of the plant with 50 Ml/d <i>Involved: CJ vd Walt A Smith</i>	Design, tender documentation, site supervision, project management, OHS compliance, capacity building	Bloemfontein, Free State	R200 mil	Current <u>Duration:</u> 3 years	Bloem Water Mr T. Ngubeni 051 - 4030800

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Brits Water Treatment Plant Extension and upgrading of the Brits WTP from 60MI/d to 80MI/d, and additional ozone and GAC to existing Plant <i>Involved: AD Ceronio CJ vd Walt A Smith M Kruger G Makwanyane G Vlok JA Coetzee LJ Krouwkamp</i>	<u>Plant Expansion and Upgrade</u> Scoping, feasibility study, preliminary design, detailed design of mechanical and electrical and C&I component, tender documentation and procedures <u>Emergency Filter Upgrade</u> Feasibility study, design, tender documentation and procedures, site supervision, OHS compliance, capacity building	Brits	<u>Plant Expansion Upgrade</u> R 160 mil (mech & elec) <u>Emergency Filter Upgrade</u> R 11 mil	Current <u>Duration:</u> 4 years	Magalies Water Mr M. Mehlo 014 597 4636
Warrenton WTP : 12 MI/d: Plant Expansion and Upgrade Settling DAF Filtration <i>Involved: CJ vd Walt LJ Krouwkamp JA Coetzee GT Makwanyane</i>	Scoping, feasibility study, preliminary design, detailed design of mechanical and electrical and C&I component, tender documentation and procedure	Warrenton	R 28 mil	Current <u>Duration:</u> 2 years	SMEC South Africa (Pty) Ltd Mr Smiley Marais 051 - 4030800
Bloemhof Water Treatment Plant 10 MI/d extension of the Bloemhof Plant <i>Involved: CJ vd Walt A Smith M Kruger G Makwanyane</i>	Inception, preliminary design, detail design, tender documentation, contract administration	Bloemhof	R 70 mil	Current <u>Duration</u> 2 years	Lidwala Consulting Engineers Mr A. Raspi 082 801 7897
Midvaal Local Municipality Blue and Green Drop Compliance <i>Involved: LZ Coetzee</i>	Blue and Green Drop Assessment; Water Safety Plans, Wastewater Risk Abatement Plan and Process Audits	Gauteng	R400 000	2016	Midvaal Local Municipality Mr Duncan Mkhonto (016) 360-5813
Vaalkop No. 3 & 4 Water Treatment Plant : Extension Extending capacity of the plant with 30MI/d on Vaalkop 3 and 30 MI/d on Vaalkop 4 <i>Involved: A Smith CJ vd Walt G Vlok M Kruger JA Coetzee</i>	Design, tender documentation, contract administration, site supervision, project management, OHS compliance, capacity building	Rustenburg, North-West	R 300 mil	2016	Magalies Water Mr M Mehlo 014 597 4636
Durban Heights Water Treatment Plant Extending filtration capacity with 200 MI/d <i>Involved: A Smith CJ vd Walt M Kruger</i>	Preliminary and detailed design	Durban, Kwa-Zulu Natal	R350 mil	2015	Umgeni Water Mr P. Thompson 033 341 1111

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Tshwane Metro Potable Water Supply Masterplan 2015-2055 Establishing a Masterplan for meeting the potable water demand of the Metro <i>Involved: AD Ceronio LZ Coetzee</i>	Working as part of a team with a specific focus on the evaluation of the current status of potable water treatment plants in the Tshwane system and the development needs thereof for the strategy horizon.	Tshwane, Gauteng	R 0.5mil	2014	City of Tshwane Metro Municipality Mr F. Mouton FransM2@tshwane.gov.za
Vondo WTP: 70 MI/d: Plant Expansion and Upgrade Direct Filtration <i>Involved: CJ vd Walt M Kruger G Makwanyane</i>	Preliminary design, detailed design of civil, mechanical and electrical and C&I component, tender documentation and procedures	Thohoyandou	R 110 mil	2014	Infraburo Consulting Engineers Mr R. Dippenaar 012- 664 6490
Municipal Assistance (Ngwathe & Mohokare LM) Blue Drop Compliance <i>Involved: AD Ceronio LZ Coetzee</i>	Blue and Green Drop Assessment; Blue and Green Drop Improvement Plans; short and medium term Action Plans, Development of Control and Monitoring Tools, Water Safety Plans, Wastewater Risk Abatement Plan	Parys	R390,000	2014	PRO-PLAN Consulting Engineers Dr Aussie Austin 011 954 4441
Mpuluzi Water Treatment Plant Construction of 5 MI/d Package Plant <i>Involved: G Vlok</i>	Civil design for installation of package plant	Mpumalanga	R 1.5 mil (civil)	2013	Zamangwane Consultants Ms B. Mathibe 084 288 3333
Process Audits for Blue Drop Requirement Polokwane, Seshego and Molepo WTPs <i>Involved: CJ vd Walt LZ Coetzee</i>	Detailed process audit on functionality of plant process train and associated civil, mechanical and electrical equipment	Limpopo Province	R170,500	2013	Polokwane Local Municipality Mr K. Mogashoa 015 290 2538
Midvaal Washwater Management Optimisation of washwater system <i>Involved: AD Ceronio A Smith G Vlok</i>	Feasibility study, design, tender documentation and procedures, site supervision, OHS compliance	Stilfontein, North-Wes	R12 mil	2013	Midvaal Water Company Mr F. Ellis 018 4821241
Midvaal North-South Filter Block 80 MI/d Refurbishment <i>Involved: AD Ceronio A Smith CJ vd Walt M Kruger</i>	Preliminary and detail design, tender documentation, construction supervision, engineering management services, OHS compliance	Stilfontein, North-West	R 40 mil	2013	Midvaal Water Company Mr F. Ellis 018 4821241
Process Audits for Blue Drop Requirement Nsezi Water Treatment Plant <i>Involved: CJ vd Walt</i>	Detailed process audit on functionality of plant process train and associated civil, mechanical and electrical equipment	Richards Bay Eastern Cape	R 80,000	2012	Mhlatuze Water Simphiwe Xulu 035 9021000

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Process Audits for Blue Drop Requirement Georges Valley, Letsitele, Tzaneen Dam <i>Involved: CJ vd Walt</i>	Detailed process audit on functionality of plant process train and associated civil, mechanical and electrical equipment	Limpopo	R 130,000	2012	Tzaneen Local Municipality Paradise Shilowa 079 905 9013
Burgersdorp Bulk Potable Water Master Plan <i>Involved: AD Ceronio, A Smith, G Makwanyane</i>	Development of Master Plan	Burgersdorp	Ro.1 mil	2012	Joe Gqabi District Municipality Mr R. Fortuin 045 971 0432
Process Audits for Blue Drop Requirement Lepelle Northern Water <i>Involved: CJ vd Walt</i>	Detailed process audit on functionality of plant process train and associated civil, mechanical and electrical equipment	Phalaborwa, Marble Hall, Nkowankowa	R 350,000	2012	Lepelle Northern Water Mr P. Moshokane 076 569 2353
Nomlacu Water Treatment Plant First 10 Ml/d phase of 20 Ml/d Plant <i>Involved: CJ vd Walt AD Ceronio A Smith</i>	Process design, plant design, tender documentation and procedures, construction supervision, engineering management services, OHS compliance, capacity building	Nomlacu, Eastern Cape	R 35 mil	2012	Umgeni Water Mr P. Thompson 033 341 1111
Water Treatment Plant Blue Drop Audits Specialist audits of various WTPs <i>Involved: AD Ceronio CJ vd Walt LZ Coetzee</i>	A detailed audit of the design, operation and maintenance of the plant and recommendations regarding improvements	Various	R 0,4 mil	Ongoing	Department of Water Affairs Mrs M. Mupariwa 012 336 6938
Rietvlei Ozonation Facility : 40 Ml/d Provision of new ozonation facility <i>Involved: CJ vd Walt</i>	Feasibility and preliminary design and specialist input on implementation	Pretoria, Gauteng	R 40 mil	2011	City of Tshwane 012 345 1007
Process Audits, Asset Register and Water Safety Plan for Blue Drop Requirement Exxaro <i>Involved: CJ vd Walt</i>	Detailed process audit on functionality of plant process train and associated civil, mechanical and electrical equipment, Water Safety Plan as per World Health Organization guidelines	Lephalale, Limpopo	R 180,000	2010	Exxaro Mr M. de Kock 014 7639841
Midvaal Water Safety Plan Blue Drop compliance <i>Involved: CJ vd Walt</i>	Water Safety Plan as per World Health Organization guidelines	Stilfontein, North-Wes	R60,000	2010	Midvaal Water Company Mrs M. Kruger 018 4821241
Steve Tshwete Blue Drop Assistance <i>Involved: AD Ceronio LZ Coetzee</i>	Compilation of operations manuals, water safety plan and incident management protocol in line with Blue Drop criteria	Middelburg, Mpumalanga	R110 000	2010	Steve Tshwete Local Municipality Mr E. Warambwa 013 – 249 7207

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Project Name and Description	Services Performed	Location	Project Value	Completion Date	Owner/Client Details
Oviston Bulk Infrastructure Services Venterstad Bulk Water Infrastructure <i>Involved: AD Ceronio G Vlok</i>	Detailed technical and scientific assessment, including treatment plants	Oviston Local Municipality Eastern Cape	R 0.2 mil	2010	Ukhahlamba District Municipality Mr D. Lusawana 045 9710158
Roodeplaat Water Treatment Plant : 60 MI/d : Audit Specialist audit of the plant <i>Involved: AD Ceronio CJ vd Walt</i>	A detailed audit of the design, construction, operation and maintenance of the plant and recommendations regarding improvements	Roodeplaat, Tshwane, Gauteng	R 0,8 mil	2010	Roodeplaat/Temba Water Services Trust 012 842 8700
Midvaal Water Treatment Plant Optimisation Study <i>Involved: AD Ceronio</i>	Detailed evaluation of plant capacity and evaluation of optimisation strategies	Stilfontein, North-West Province	R 0,1 mil	2009	Midvaal Water Company Mrs M. Kruger 018 482 1250
Parys Water Treatment Plant: 20 MI/d : Dissolved Air Flotation and PAC Water quality deterioration necessitated the implementation of advanced treatment processes <i>Involved: AD Ceronio A Smith</i>	Feasibility study, design and tender documentation. Support to allow Client to perform contract administration, site supervision, project management and OHS compliance	Parys, Northern Free State	R 28 mil	2009	Phumelela Africa Professional Engineers 011 789-3727
Technical Audit of Water Boards Technical audit of Magalies Water and Lepelle Water <i>Involved: AD Ceronio</i>	A technical audit of the water boards in terms of status of its plants, personnel, maintenance plans, etc.	Limpopo, Gauteng, North-West Province	R 0,3 mil	2008	Department of Water Affairs and Forestry 012 336 8470
Nandoni Water Treatment Plant : 60 MI/d Conventional water treatment plant <i>Involved: A Smith CJ vd Walt</i>	Design, tender procedures, contract administration, site supervision, project management, OHS compliance	Thohoyandou, Limpopo Province	R 250 mil	2008	Department of Water Affairs and Forestry 012 336 8514
Vaalkop Water Treatment Plant Computation/analysis of ozone contact chamber and subsequent contact zone Preliminary design proved to be adequate <i>Involved: CJ vd Walt</i>	Computational Fluid Dynamics (CFD)	Rustenburg, North-West	R 0.4 mil	2006	Magalies Water 012 277 1298/0

PROJECT EXPERIENCE



Project Name and Description	Services Performed	Location	Project Value	Completion Date	Owner/Client Details
Umzoniana WTP 60 MI/d Plant Upgrade Expansion of conventional water treatment plant with DAFF filters <i>Involved: AD Ceronio</i>	Feasibility study	East London Eastern Cape	R 150 mil	2005	Buffalo City Municipality 043 705 2000
Nsezi Water Treatment Plant Extension Optimum extension mode determined <i>Involved: AD Ceronio CJ vd Walt</i>	Report stage for preliminary report	Richards Bay, KwaZulu-Natal	R 200 mil	2004	Mhlathuze Water 035 902 1000
Midvaal : Refurbishment of Existing Filters : 200 MI/d Refurbishment and increase capacity of existing infrastructure <i>Involved: A Smith CJ vd Walt</i>	Design, tender procedures, contract administration, site supervision, project management, OHS compliance	Stilfontein, North-West	R11 mil	2004	Midvaal Water Company Mr G. Grobler 018 482 1241
Vaalkop No. 1 Water Treatment Plant : Upgrade High technology treatment process with ozone and GAC <i>Involved: AD Ceronio A Smith CJ vd Walt</i>	Design, tender documentation, contract administration, site supervision, project management, OHS compliance	Rustenburg, North-West Province	R 54 mil	2004	Magalies Water Mr M Mehlo 012 277 1298/0
Nsezi Water Treatment Plant Raw water extraction and process strategies Optimizing of supply from two water treatment plants <i>Involved: AD Ceronio CJ vd Walt G Vlok</i>	Planning and cost assessments	Richards Bay, KwaZulu-Natal	R 200 mil	2003	Mhlathuze Water 035 902 1000
Balkfontein Water Treatment Plant Modelling of flow pattern within existing bulk water storage reservoir Effectiveness of mixing in reservoir determined <i>Involved: CJ vd Walt A Smith</i>	Computational Fluid Dynamics (CFD)	Bothaville, Free State	R 0.25 mil	2003	Sedibeng Water 056 515 0333

PROJECT EXPERIENCE



Project Name and Description	Services Performed	Location	Project Value	Completion Date	Owner/Client Details
Laing/Nahoon Water Treatment Plant (20 MI and 30 MI) Proposed process design reveals additional process unit required to treat raw water sources <i>Involved: A Smith CJ vd Walt</i>	Status quo report and feasibility study into current degrading raw water quality	East London, Eastern Cape	R 0,2 mil	2003	Amatola Water 043 721 0814
Eritrea Water Treatment Plant : 20 MI/d Potable Process with Lamella plate settling conventional filtration Bulk water distribution Increase capacity of existing infrastructure <i>Involved: A Smith</i>	Civil design, contract administration, bulk supply hydraulic analysis and final design of Turnkey project	Asmara, Eritrea	R 325 mil	2003	Biwater (Pty) Ltd 011 462 4220
Balkfontein/Virginia : 160 MI/d Chloramination dosing installation with precision controls <i>Involved: AD Ceronio CJ vd Walt</i>	Design, tender procedures, contract administration, site supervision, project management	Virginia, Free State	R 1.5 mil	2003	Sedibeng Water 056 515 0200
Vaalkop No. 3 Water Treatment Plant : New Plant: 90 MI/d Construction from 120MI/d Planning Treatment of eutrophic surface water from the Vaalkop Dam inclusive of PAC and COCODAFF <i>Involved: AD Ceronio A Smith</i>	Design, tender documentation and procedures, contract administration, site supervision, project management, OHS compliance	Rustenburg, North-West Province	R 324 mil escalated	2000	Magalies Water Mr M Mehlo 012 277 1298/0
Rietvlei GAC Filters : 40 MI/d Provision of new GAC Filtration Plant <i>Involved: A Smith CJ vd Walt</i>	Design, tender procedures, contract administration, site supervision, project management, OHS compliance	Pretoria, Gauteng	R 25 mil	2000	City of Tshwane 012 345 1007
Rustfontein WTP – 100 MI/d Conventional water treatment plant for potable purposes <i>Involved: A Smith</i>	Preliminary Design Report, Design (Civil & Mech), Tender Document, Project Management	Bloemfontein, Free State	R 350 mil	2000	Bloem Water 051 – 403 0800

PROJECT EXPERIENCE



Project Name and Description	Services Performed	Location	Project Value	Completion Date	Owner/Client Details
Goreangab Water Reclamation Plant : 21 MI/d Treatment of blended raw water and sewage effluent for potable purposes (KfW funded) High technology treatment process <i>Involved: CJ vd Walt</i>	Design, tender documentation, contract administration, site supervision, project management of Turnkey project, OHS compliance	Windhoek, Namibia	R 200 mil (Escalated at the ratio at the time due to process technology)	2000	City of Windhoek +264 61 2902339
Victoria Falls Water Treatment Plant 10MI/d extension & 10MI/d refurbishment Conventional water treatment plant for potable purposes <i>Involved: A Smith</i>	Design, tender documentation, contract administration and project management	Victoria Falls	R 60 mil (Escalated)	2000	Victoria Fall Municipality

PROJECT EXPERIENCE



Civil Services, Pipelines, Reservoirs and Pumping Stations

Our project Team has had detailed involvement in the following projects:

Project Name and Description	Services Performed	Location	Project Value	Completion Date	Owner/Client Details
Lethabo Pumping Station <i>Involved: AD Ceronio, JA Coetzee</i>	Structural and architectural assessment and recommendation to accommodate mechanical and electrical plant upgrade	Gauteng	R208,000	July 2017	Automation Specification Mr W Koekemoer 082 907 2482
Chief Mogale Sewage Pump Station New Sewage Pumping Station <i>Involved: G Vlok</i>	Mechanical design, contract administration	Gauteng	R 4 mil	2017	PRO-PLAN Consulting Engineers Mr A. Coetzer 011 954 4441
Khutsong Sewage Pump Station New Sewage Pumping Station <i>Involved: G Vlok</i>	Mechanical design, contract administration	Gauteng	R 500,000	2017	PRO-PLAN Consulting Engineers Mr A. Coetzer 011 954 4441
Vaalkop No. 3 & 4 Water Treatment Plant : Extension Extending capacity of the plant with 30MI/d on Vaalkop 3 and 30 MI/d on Vaalkop 4 (including raw water pumpstation and distribution structure) <i>Involved: A Smith CJ vd Walt G Vlok JA Coetzee</i>	Design, tender documentation, contract administration, site supervision, project management, OHS compliance, capacity building	Rustenburg, North-West	R 300 mil	2016	Magalies Water Mr M Mehlo 014 597 4636
Reservoir at OK Pump Station New 2MI reservoir <i>Involved: CJ vd Walt G Vlok</i>	Design, tender procedures, contract administration, site supervision, project management	Bloemfontein, Free State	R 2.5 mil	2014	Bloemwater Mr E. Gaoseb 051 403 0800
Mohlakeng Sewage Pumping Station New Emergency Sewage Pumping Station <i>Involved: G Vlok</i>	Mechanical design, contract administration	Gauteng	R 500,000	2014	PRO-PLAN Consulting Engineers Mr A. Coetzer 011 954 4441
Koes and Kries Water Reticulation Networks Water reticulation for two townships <i>Involved: G Vlok</i>	Design of two water reticulation networks	Namibia	R 2 mil	2013	Multi Consult Mr A. du Toit +264 61 221560

PROJECT EXPERIENCE



Project Name and Description	Services Performed	Location	Project Value	Completion Date	Owner/Client Details
Zulu and Xhosa PS and Pipelines Upgrading of pumping station and pipelines <i>Involved: G Vlok</i>	Design and tender documentation	Ekurhuleni	R10 mil	2012	Ekurhuleni Metro Municipality Mr T. Chanda 011 999 0991
Ngwathe Water and Sewage Infrastructure Infrastructure assessment and optimisation <i>Involved: CJ vd Walt G Vlok</i>	Detailed technical, financial and scientific assessment	Ngwathe Municipal area	R 0.5 mil	2010	Rand Water
Oviston Bulk Infrastructure Services Venterstad Bulk Water Infrastructure <i>Involved: AD Ceronio G Vlok AH Laher</i>	Detailed technical and scientific assessment	Oviston Local Municipality Eastern Cape	R 0.2 mil	2010	Ukhahlamba District Municipality Mr D. Lusawana 045 9710158
Mothlotlo Relocation Water, Sanitation, Roads and Stormwater Services for two Villages (1100 stands) as well as house foundations. Services include: Internal civil services. Distribution of borehole supply to consumers; Dry sanitation; Surfaced and gravel road network; concrete reservoir <i>Involved: G Vlok</i>	Design, contract documentation and contract administration	Mokopane	R 200 mil	2008	Anglo Platinum Section 21
Rockdale Sewer Reticulation <i>Involved: G Vlok</i>	Design, contract documentation and contract administration	Middelburg	R 4 mil	2008	Nkangala DM Mr. Sifiso Khoza 013 249 2025
City of Tshwane Babelegi/Temba Sewer Infrastructure Provision of sewer reticulation & two pumping stations for approximately 10,000 stands <i>Involved: G Vlok</i>	Design, tender procedures, contract documentation, site supervision, project management	Pretoria	R 120 mil	2008	City of Tshwane
Golela Border Post Design of Civil Infrastructure (Water, Sewage and Pumping Stations) <i>Involved: AD Ceronio G Vlok</i>	Design, contract documentation and contract administration	Swaziland Border	R 15 mil	2008	Dept. of Public Works Mr De. Hallis 012 310 5951

PROJECT EXPERIENCE



Project Name and Description	Services Performed	Location	Project Value	Completion Date	Owner/Client Details
Nandoni High Lift Pumping Station Design of Civil Infrastructure of the pumping station and mechanical pumping equipment for distribution to NN20B (2 Ml/d – 2 x 75 kW, NR 5 (50Ml/d - 3 x 0.8 MW motors) and NR 6 (14Ml/d – 3 x 0.6 MW) <i>Involved: A Smith</i>	Detailed design, tender procedures, contract documentation and contract administration	Thohoyandou, Limpopo Province	R 55 mil	2008	Department Water Affairs Mr Roy Hill / Mr Ken Burrow 012 336 8514 / 012 336 8614
Rooikoppen Sewage Pumping Station <i>Involved: G Vlok</i>	Design, contract documentation and contract administration	Standerton	R 4 mil	2004	Lekwa LM Mr S. Claasens 017 710 9600
Lekwa Link Sewers (1 km 300 dia Outfall Sewer) <i>Involved: G Vlok</i>	Design, contract documentation and contract administration	Standerton	R 2 mil	2004	Lekwa LM Mr. S. Claasens 017 710 9600
Sivukile Sewer Reticulation <i>Involved: G Vlok</i>	Design, contract documentation and contract administration	Standerton	R 1,2 mil	2004	Lekwa LM Mr. S. Claasens 017 710 9600
West Derby/Kagung Bulk Water Supply and Reticulation Upgrade Borehole supply for rural community <i>Involved: A Smith</i>	Design, tender procedures, contract documentation, site supervision, project management	Kuruman, Northern Cape			Ga-Segonyana LM 053 712 1095
Klipgat A : Bulk Water Supply Tenure Upgrade Bulk supply, reticulation, pressure reduction, stormwater, roads and sewerage <i>Involved: G Vlok</i>	Assessment of existing services and conceptual design of upgrading work	Brits, North-West	R 20 mil	2002	Madibeng Local Municipality 012 318 9236

PROJECT EXPERIENCE



Project Name and Description	Services Performed	Location	Project Value	Completion Date	Owner/Client Details
Mbonambi : Water Reticulation Services 9,5 km pipeline (Phase 1) 1,6 km of 450 mm dia and 500 mm dia pipeline and continuation of the 315 mm dia main pipeline by another 2,2 km Extensions to existing installation. Extended supply required special precautions <i>Involved: G Vlok</i>	Design, tender procedures, contract administration, site supervision, project management	Richards Bay, KwaZulu-Natal			Mhlathuze Water 035 902 1000
Sasol Pipeline 450 dia, 10,7 km pipeline Spigot and socket welded steel pipeline with cement mortar lining <i>Involved: G Vlok</i>	Design and construction supervision	Secunda, Mpumalanga	R 25 mil	2004	Sasol 011 441 3111
Upper and Lower Majeakgoro : Bulk Water Supply and High Lift Pumping Station 250 dia., 5,5 km pipeline and 2 Ml reinforced concrete reservoir Spigot and socket welded steel pipeline with cement mortar lining <i>Involved: A Smith</i>	Design, tender procedures, contract administration, site supervision, project management	Pampierstad, North-West			Bophirima District Municipality 053 927 2222
VRESAP : Vaal River Eastern Sub-system Augmentation Project Detail design of a one-way surge tank able to supply 8,4 m ³ /s during surge conditions Detail design of a flow division structure to manage 5,4 m ³ /s of flow Development and refinement of mechanical specifications <i>Involved: AD Ceronio</i>	Detailed problem analyses and design of the systems. Assistance with the preparation of tender documents.	Gauteng and Mpumalanga		2007	Trans Caledonian Tunnel Authority (TCTA) 012 683 1200

PROJECT EXPERIENCE



Project Name and Description	Services Performed	Location	Project Value	Completion Date	Owner/Client Details
<p>Richards Bay : 5 MI Concrete Reservoir and 9,1 km Pipeline (IOF) Aggressive water necessitated protective measures Industrial water supply. Special corrosion precautions due to ground conditions and corrosive water <i>Involved: G Vlok</i></p>	Design, tender procedures, contract administration, site supervision, project management	Richards Bay, KwaZulu-Natal	R 15 mil	2001	City of uMhlatuze 035 901 5000
<p>Vaalkop Water Treatment Plant Raw water pumping station : 120 MI/d and 800 mm GRP pumping main High lift pumping station (85 MI/d – 5 x 1,3 MW motors) and pumping main Fast track construction. 40 bar pressure with variable speed pumpsets <i>Involved: AD Ceronio</i></p>	Design, tender procedures, contract administration, site supervision, project management	Rustenburg, North-West	R 50 mil	1998	Magalies Water 014 597 4636

PROJECT EXPERIENCE



Sanitation Projects

Our project Team has had detailed involvement in the following projects:

Project Name and Description	Services Performed	Location	Project Value	Completion Date	Owner/Client Details
Volksrust VIP's Alternatives offered to Client prior to final design and tender documentation. Project presently (July 06) in construction phase <i>Involved: G Vlok</i>	Design, tender documentation, site supervision & contract administration	Pixley Ka Seme, Mpumalanga	R 1,6 mil	2008	Pixley Ka Seme LM (017) 735 6100
Empuluzi VIP's (Phase 1 & 2) Alternatives offered to Client prior to final design and tender documentation. Project presently (July 06) in construction phase <i>Involved: G Vlok</i>	Design, preparation of business plans and technical report, tender documentation, site supervision & contract administration	Empuluzi, Mpumalanga	R 3 mil	2007	Albert Luthuli DM (017) 843 1055