

## Water and Sanitation in the News

### Mokonyane launches multi-billion rand Vaal project

Minister of Water and Sanitation Nomvula Mokonyane has officially launched the Vaal Gamagara Water Scheme in the Northern Cape. The scheme, valued at R18 billion, will involve the construction of a 430 km pipeline and the drilling of boreholes to augment water supply for about six municipalities and 22 villages. This will ensure security of supply up to 2040. The project will commence in July 2016 and should be completed in July 2018.

The minister told more than 3 000 members of the community that the project is the largest in the country currently and it will create no less than 1 500 jobs for people in the areas involved.

Speaking at the launch, Mokonyane emphasised the importance of the project for the communities of the Northern Cape and the provincial economy. "Through this project we seek to ensure that our people have access to clean water and prevent incidences where our people share unsafe water with animals in rivers. We will serve close to 150, 000 people in 22 villages once this scheme is completed." ...

Source: [Infrastructure.ws](http://Infrastructure.ws), 28 June 2016

Flows and Quality & Domestic Flows and Quality). This is an EASY tool to use to determine if a plant is overloaded.

The system also assists in identifying why and when it is overloaded, and what needs to be done to solve the issue. The module works by taking all the plant components as specific to a particular works and thereby facilitates easily conducting plant specific audits on the adequacy of the design capacity in relation to current or planned operating conditions and loads.

**Design Inflow to Waste Water Works**

Design: EXAMPLE

Note: Oxidation ponds

Average DWF:	148.0 l/s	0.1480 cumec	Total nitrogen:	657.1 mg/l
Min DWF:	0.0 l/s	0.0000 cumec	COD:	314.7 mg/l
Max DWF:	97.2 l/s	0.0972 cumec	SS:	200.0 mg/l
PWWF:	106.9 l/s	0.1069 cumec	Total solids:	800.0 mg/l
			pH:	7.0
			Conductivity:	240.0 m.S/m

**Primary Sedimentation Tanks**

Design flow:  ADWF  PDWF  PWWF

Tank diameter:	10 m	Effluent suspended solids:	150 mg/l
Tank depth:	2 m	Effluent COD:	300 mg/l
No of tanks:	3		
Surface area:	78.6 m sq		
Tank volume:	157.1 cub m		
Weir length:	31.4 m		

Design parameters:

Detention time:	1.5 hrs (1.5 to 2.5 hrs)
Upflow velocity:	1.5 m/hr (1.5 - 3.5 m/hr)
Weir overflow rate:	120 cub m/m/day (120 - 500)
Surface overflow rate:	40 cub m/sq m/day (40-120)
Solids loading rate:	10 kg/sq m/day (10-20)
Solids removal eff:	45 % (45-65)
Solids in underflow sludge:	2 % (2-4)

**PWWF: 0.1069 cumec**

Detention time:	12 hrs
Upflow velocity:	1.6 m/hr
Weir overflow rate:	98 cub m/m/day
Surface overflow rate:	39 cub m/sq m/day
Solids loading rate:	8 kg/sq m/day
Solids removal eff:	75 %
Solids in underflow sludge:	%

Diagram labels: Sludge rake, Sludge, Scum baffle, Inflow, Effluent

WAMTech will provide detailed training on the module at a refresher course scheduled for 18 August 2016 at our office in Stellenbosch. The course is included as part of clients' license renewal fees (2 attendees per license holder).

Other new features of the MA system include:

### New reports

- Detailed reactive maintenance report
- Detailed preventative maintenance report
- Lab report: DWS compliance report (per month)
- Lab report: overall compliance report (per month)
- Lab report: period averages of water quality data (for selected time frame)
- 4 lab reports: sequential statistics (locations)

### New functionalities

- Import reassessment of assets
- Archive staff
- Archive suppliers
- Job card number reactive maintenance
- Job card number preventative maintenance

CONTACT US: Tel: +27 (0)21 887 7161

## Municipal Assistant™ System NEW FEATURES & FUNCTIONALITIES

The **Municipal Assistant™** was developed as an operational information system to assist with the assessment (on component level including cost and lifespan), operations, maintenance (preventive and reactive) and management of water and wastewater facilities and related infrastructure.

**General Monitoring**

- Soil Monitoring
- WQ Monitoring
- All WQ Data
- Weather
- Green Drop Upload File

**Water infrastructure**

- Water Care Works
- Sludge
- Water Demand
- Geo overview
- Pipeline Profiler
- Solar Calculator
- Water Safety Plan

**Assets and budgets**

- Assets
- Risk Assessment
- Stock Control
- Buildings & Land
- Budget
- Price Index
- vehicles

**Administration and staff**

- Suppliers
- Literature
- Staff & Skills
- Time sheets
- CRM
- Backup Data

**Support Tools**

- Waste water calculator
- Pump calculator
- Conversions
- WQ Guidelines
- Hydraulics: Concepts
- Equipment Info
- MA WEB
- eWISA
- Sewage Loads Estimator**

The latest MA release includes a new module named "**Sewage Loads Estimator**". The purpose of this module is to assist clients to calculate the Sewage Loads for a WWTW (Industries

WAMTech are specialists in implementing technology systems for improved governance, focussing on Water and Public Health Information Systems

Visit our websites:

- [www.wamsys.co.za](http://www.wamsys.co.za)
- [www.municipalassistant.co.za](http://www.municipalassistant.co.za)
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