

Garden Route Dam Action Group

Garden Route Dam Development



GARDAG
GARDEN ROUTE DAM ACTION GROUP

“George has a
water quality
issue, not a
water quantity
issue” Prof
Anthony Turton



Why
compromise
what quality
we have?



No
Assessment of
Water Quality,
Water Ecology
and Health
Impacts



Approved Development

- **Campus – University / Research Institute / Academy - approx 13,66 hectares**
- **Waterfront Commercial Development approximately 4,66 hectares**
- **Hotel and supporting infrastructure approximately 1,55 hectares**
- **Medium Density Residential / Group Housing approximately 5,47 hectares**
- **Apartments / Flats / Student Housing approximately 4,84 hectares**
- **Free Standing Dwelling Houses approximately 5,76 hectares**
- **Recreation Spaces / Sports Fields approximately 7,57 hectares**
- **Roads approximately 7,6 hectares**
- **Parks / Natural Assets / Preservation Areas of approximately 67,39 hectares**

Pollution Mitigation

31 **An infiltration berm/ trench/swale** along the contour must be developed **along the wetland buffer** on the dam side of the development in order to slow surface runoff velocities and trap pollutants, prior to the water reaching the dam during the operational phase. The berm must be developed approximately along the 200m contour line on the western side of the development, sloping down to approximately 195m contour line on the eastern side of the development near the dam wall. It must be developed in such a way that **storm water** from the berm /swale must not be released into the dam, but **into the watercourse below the dam wall.**

23 A **protective buffer area of 100m around all wetland areas must be maintained** at all times during construction and operation. No development of structures or infrastructure (including pump stations) must be allowed inside this buffer area, **except for watercourse crossings for the purpose of access roads.**

George Complies with the Blue Drop Standard

- Experts are learning of new potential dangers in our drinking water. In many cases, the possible harms are not yet fully known. <https://wqa.org/learn-about-water/common-contaminants/>
- **Anthropogenic contaminants** in water can impose risks to reproductive health. Most of these compounds are known to be endocrine disrupting chemicals (EDCs). <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7139484/>

Anthropogenic contaminants

- 1000 Residential Units : 600 000 Liter of Sewage per day
 - 1% leakage : 2 M liter untreated sewage in the dam per year.
 - Average water loss in potable systems is 16 percent (US)
- **Storm Water Quality**
 - aluminium, copper, lead, manganese, nitrogen, phosphorus, zinc, oil and grease, macro pollutants.

LAW

- Section 24 of the **Constitution** states that: Everyone has the right to: an environment **which is not harmful to their health or well-being.**
- **NEMA Principles**
 - Environmental management must place people and their needs at the forefront.
 - **Precautionary Principle:** When it is uncertain on the information available to an evaluator whether or not the impact of a proposed development on the environment will be adverse, the evaluator must accept as a matter of precaution, that the impact will be detrimental.



SAVE OUR DAM

HIGH COURT LEGAL REVIEW

DONATE NOW!*

GARDAG
FNB Business Account
No: 6304 0209 868
Garden Route Branch 250069
Swift Code: FIRNZAJJ

GARDAG NPC: 2023/553797/08 PBO: Pending



gardag21@gmail.com



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* T & C Apply