

Mareike Straeuli

From: Asha Ramjatan <Asha.Ramjatan@umgeni.co.za>
Sent: 16 November 2018 12:31 PM
To: N3batch2@acerafrica.co.za
Subject: Comments to BAR - (DEA REF NO: 14/12/16/3/3/1/1966) PROPOSED CAPACITY UPGRADES TO THE N3 FROM LYNNFIELD PARK (KM 30.6) TO GLADYS MANZI (FORMERLY MURRAY) ROAD (KM 6.1)

Hi Mareike/Ashleigh

Page 37 of the BAR states, *inter alia*, “The N3 carriageways and associated interchanges and immediate approaches will be widened. The roads cross numerous drainage lines, streams and rivers. Bridges and drainage structures in or near watercourses will need to be expanded to accommodate the expanded roads.”

My comments are as follows (based on 8 water courses being affected):

- Where appropriate, the water courses should be monitored for key water quality variables before, during and after construction.
 - Some key water quality variables include (coliforms, *E. coli*, conductivity, colour, odour, turbidity, suspended solids, total organic carbon, pH, total phosphorus, soluble reactive phosphorus, ammonia, nitrate, iron, manganese, soap/oil/grease).
 - During construction the monitoring frequency should be at least monthly to ensure that the monitoring frequency is reasonably adequate to identify pollution to the water courses and apply mitigation measures to ensure that the water quality is not adversely impaired in the 8 water bodies.
- Note: SASS monitoring is usually undertaken quarterly (and this alone will not provide adequate information to check impacts during construction).
- **Table 16. Assessment of potential impacts**.... This table should be updated to include the impacts on water quality and quantity.
- EMPr – this should be updated to include impacts and mitigation for water quality and quantity.
- Page 123. **11 Recommendations of the EAP** - should include water quality monitoring (monthly) and the requirement for the ECO to submit the results (in-comparison to the baseline) to the authority.
- Page 67. Riparian and Wetland Area. **“Many of the waterways and wetlands present have been variably impacted by the road and associated drainage structures, by canalisation, and by urban and agricultural development.** Yes, this is true, however Umgeni Water uses the water downstream and the water quality should not be adversely impaired. In addition, the wetlands should not be allowed to deteriorate any further.
- Page 72 – Note: Lyn Archer has not worked at Umgeni Water for many years.

Warm Regards

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