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Attention: Ms I. Erasmus

COMMENTS ON THE POST-APPLICATION BASIC ASSESSMENT REPORT (POST-APP BAR) FOR THE PROPOSED UPGRADE OF THE KLAARSTROOM OXIDATION POND WASTEWATER TREATMENT SYSTEM ON RE PORTION 32 AND 34 OF FARM 178, PRINCE ALBERT, WESTERN CAPE.

The Directorate: Pollution & Chemicals Management (D: PCM) has evaluated the above-mentioned documentation and has the following comments which must be addressed:

- On page 7 it is suggested that current sludge in the anaerobic pond be buried on-site and contained within the fenced off area. The Technical Report contains a soil analysis, however, no sludge analysis has been included in this document. Has the classification of the sludge been determined, and does it comply with the requirements for on-site disposal/burial as per Volume 3 of the "guidelines for the utilizations and disposal of wastewater sludge", *Water Research Commission, TT 261/06, 2006*?
- What is the groundwater depth in this area and will this be monitored to ensure that buried sludge does not contaminate the groundwater resources?
- It is also stated that it is difficult to transport sludge due to its jelly-like consistency. This implies that the current sludge has a high moisture/water content. Will sludge be dried prior to burial? Has the option to dry sludge prior to transportation for off-site use/disposal been explored (as per sludge classification and relevant disposal options)? Drying beds should be considered as wet sludge will pose a much higher risk of groundwater contamination, should the wet sludge be buried or stored on an unlined permeable surface.
- Page 19 states that construction is expected to take four months and goes on to say that construction will commence in July 2019 and end August 2019. This is two months at most, please clarify.

- The irrigation of the sports field will occur closer to residential areas than the current irrigation area. What is the predominant wind direction for this area? The applicant must ensure that no irrigation occurs during high wind conditions as the sports field is close to residential dwellings. What arrangements are being made for the winter periods when sports fields are saturated and the demand for watering is limited?
- With relevance to the previous question, what is the retention time of the effluent in the storage dams on the sports field?
- Due to the fact that sewage has to be pumped up to the treatment works, as well as pumped for irrigation onto the sports field, are there stand-by generators in place in the event of power outages? Please explain how the situation will be managed when no power is available.

The D: PCM reserves the right to provide additional comment on this application should any further relevant information become available.

Yours faithfully,



Zayed Brown

Directorate: Pollution & Chemicals Management

Sub- directorate: Pollution Monitoring and Information Management

Date: 5 July 2019.