

Ref: 17021/L'Agulhas Domestic Water Requirement\_26/08/2019

26 August 2019

**CAPE AGULHAS MUNICIPALITY**

1 Dirkie Uys Street  
Bredasdorp  
7280

Attention: Mr. Dean O'Neill

**L'AGULHAS LIFESTYLE ESTATE: WATER USE AUTHORISATION**

The meeting of Wednesday 21 August 2019, held at the offices of the Cape Agulhas Municipality, which was attended by Messrs Dean O'Neill, Derick Burger, Gideon Roos and Riaan van Dyk refers.

I wish to confirm the following items discussed and agreed at the aforementioned meeting:

**1) Abstraction volumes**

- a) The "Cape Agulhas Municipality Groundwater Monitoring Report – March 2016" compiled by SRK Consulting states that municipal water for Agulhas is abstracted from two production boreholes (LA1 and LA2) in the Agulhas Wellfield, which is situated in the Bredasdorp aquifer.
- b) The "safe" aquifer yield is estimated at 300,000m<sup>3</sup>/annum.
- c) Volumes abstracted from Agulhas has increased gradually to approximately 175,000m<sup>3</sup>/annum in 2015 and the expected abstraction for 2019 is 240,000 m<sup>3</sup>/annum (refer e-mail correspondence from Deon Wasserman dated 20 August 2019)
- d) The proposed L'Agulhas Lifestyle Estate will generate a gross average daily water demand of approximately 314m<sup>3</sup>/day (114,610m<sup>3</sup>/annum).
- e) The development would therefore most likely exceed the current "surplus" abstraction of 60,000m<sup>3</sup>/annum
- f) It should be noted that the development will follow a phased roll-out dependent on property sales and therefore the full water demand will not be applicable within the next 5 years

**2) "L'Agulhas Links Golf Estate Assessment of Groundwater Resources for the Water Supply and Environmental Impacts – November 2004" report compiled by SRK Consulting**

- a) The aforementioned report states that the L'Agulhas Lifestyle Estate has three existing boreholes, i.e. KOOS1, KOOS2 and AGUL04/A, which was installed in April 2004
- b) Borehole KOOS1 was reported dry and subsequently backfilled



Est. 2004

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- c) The two other boreholes, i.e. KOOS2 and AGUL04/A are deemed to be good production boreholes in terms of yield and water quality (*borehole information and yield results are included in the report*).
- d) These boreholes are situated in the Table Mountain Aquifer and will have very little to no adverse interference on the existing Struisbaai production boreholes or the two Agulhas municipal boreholes which are situated in the Bredasdorp Aquifer.
- e) The combined sustainable yield from KOOS2 and AGUL04/A is estimated at 520m<sup>3</sup>/day or 189,800m<sup>3</sup>/annum.

### 3) Conclusion and recommendation

Three possible solutions were discussed to use the water from the on-site boreholes (*KOOS2 and AGUL04/A*) for domestic water supply to the development. All parties agreed on the following solution as the best course of action:

- a) The proposed development will generate a gross average daily water demand of approximately 314m<sup>3</sup>/day or 114,610m<sup>3</sup>/annum.
- b) The combined sustainable yield from KOOS2 and AGUL04/A is estimated at 520m<sup>3</sup>/day or 189,800m<sup>3</sup>/annum
- c) The water from the on-site boreholes (*KOOS2 and AGUL04/A*) is therefore sufficient to supply the development with its required potable water needs and to supplement municipal requirements elsewhere.
- d) The best solution for the Cape Agulhas Municipality would be to pump the water from the on-site boreholes as a supplementary water source to the municipal reservoir, situated due east of the development site.
- e) Treatment, distribution and metering would still be the responsibility of the municipality.

I trust that you will find the above as an accurate account of our meeting and look forward to your response.

Yours sincerely,



Riaan van Dyk  
**for KLS Consulting Engineers**

cc. Derick Burger                      Cape Agulhas Municipality  
Gideon Roos                              Firstplan