

Inge Erasmus

From: Lizbé Bester <lizbe@sbri.co.za>
Sent: Wednesday, 26 September 2018 11:53 AM
To: Inge Erasmus
Subject: Re: Harmony Trust - Response to IAPs
Attachments: 1733HydroAreal.jpg

Hello Inge

We do understand the concern, but this licence application for 'new' water is based purely on **surplus** winter water from the **Houdenbek River tributary**.

When looking at the Riet River run-off in total, however, it is influenced by about 4 upstream catchment areas contributing to the total run-off of Riet River catchment area itself. We refer to the attached map.

We list the pro-rata contributions to the total Riet River run-off in the table below; Refer WR2012

Quaternary Area		% Contribution	
Houdenbek River Catcment	E21D	30%	24M m3 (after ELU's) Refer Howard 2010
	E21A	24%	
	E21B	18%	
	E21C	17%	
	E21E	11%	
TOTAL		152,1M m3 (100%)	

Thus, as indicated by the table, the Houdenbek River catchment, one of the tributaries to the Riet River, contribute about 30% of the total of the annual Riet River run-off.

This particular licence application is for an annual taking of **715000m3**, which is about 3% of the Houdenbeks River run-off when compared to the Houdenbek run-off after ELU's have been protected (Refer Howard 2010), which in turn is 30% of the total Riet River run-off. Thus we are applying for only 0,9% of the total of Riet River run-off, negligibly small when compared to 152M m3.

Also, this area is well known for its dry periods with little rainfall which can last up to 3 or 4 years and then broken by a heavy once off rainfall over a very short period. In other words the 'new taking' will aim to abstract water from these surplus winter water situations by pumping water from an existing dam which will act as a buffer dam. The reason for the large storing capacity compared to the annual taking confirms the fact that rainfall is unpredictable in this area and should be potted, enough for at least 3 years.

Our licence application is based on the hydrological studies requested by DWS Head office, namely *G. Howard, Feb 2010 & Fresh Water Reseach, B Paxton, 2016*.

Hope this answers your query and gives the insight into this sensitive case.

Kind regards

Lizbe

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-----Original Message-----

From: Inge Erasmus <inge@enviroafrica.co.za>

To: lizbe@sbri.co.za

Subject: Harmony Trust - Response to IAPs

Date: Thu, 20 Sep 2018 10:02:02 +0200

Hi Lizbe

Kan jy my asb help met n reply in my Comments & Response report vir al die Interested and Affected Parties (IAPs) wat die volgende se:

I am a member of Zeekoegat Farms CC, through which the Riet River runs.

The Riet River, which is our only water source, is fed from the Winkelhaaks River in turn fed from the Houdembek river and catchment area.

The proposed damming of the river and catchment area would result in the removal of our essential water source.

Groete

Inge

Inge Erasmus



Environmental Consultant

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