



Emross Consulting (Pty) Ltd.  
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Dear Mr. Zunckel

7 May 2018

RE: Selati Train Development – Bulk services capacity

The bulk services capacity to accommodate the proposed Selati train development is summarized as follows:

a) Water abstraction permit

The abstraction permit for Skukuza rest camp, living quarters and corporate departments are 496 400 kl/annum = 1360kl/day (See attached registration certificates in Annexure A)

The actual water abstraction for 2017 was 375 969 kl/annum = 1 056kl/day

Spare capacity = R 120 431kl/annum or 330kl/day

The expected usage of the new Skukuza Safari Lodge and staff accommodation is 115kl/d

The expected usage for the Selati product is 20kl/day

Spare capacity for future staff upgradings and improvements =  $330 - 115 - 20 = 195\text{kl/day}$ .

There should thus be sufficient capacity to supply the Selati development with water from the existing permit based on the total max demand of 20kl/day.

b) Potable water treatment

The existing water treatment plant in Skukuza is currently being upgraded from 60kl/h to 80kl/h

The additional of 20 kl/h should be sufficient to supply the new Skukuza Safari Lodge and the 20kl/day for the new Selati development

c) Waste water treatment

The max expected liquid waste from the Selati development is 16kl/d

The total expected sewerage to be treated is 425kl/d (Skukuza) + 115kl/d (Water use)\*80% sewerage flow (New Safari Lodge) + 20kl/d (Water use) \*80% sewerage flow (Selati) = 533kl/d

The existing plant with 62 days retention can accommodate approx. 600kl/d and we are in the process of adding an anaerobic digestion process. The waste water treatment plant should therefore be able to accommodate the Selati development.

d) Solid waste

The existing Skukuza MRF will be able to process your waste provided that it is pre-sorted in recyclable and non-recyclable waste.

Blake Schraader  
General Manager Technical Services KNP

addo elephant

agulhas

augrabies falls

bontebok

cape peninsula

golden gate highlands

karoo

kgalagadi transfrontier

knysna

kruger

marakele

mountain zebra

namaqua

tankwa karoo

tsitsikamma

richtersveld

vaalbos

vhembe dongola

west coast

wilderness