

Appendix E. Letter from Municipality Concerning Solid Waste Collection



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Date: 28 September 2020
Enquiries: B. Burger
Attention: A. Fraser
Reference Number: 16/5/2/2
Per e-mail: fraser@fccc.co.za

Sir,

DEVELOPMENT OF ERF 134, INFANTA: SOLID WASTE REMOVAL

Your request regarding the update on our previous letter concerning solid waste collection in Infanta, has reference.

The solid waste facility was indeed upgraded during 2019, as mentioned in Dr. Clayton's letter, dated 20 February 2012. The facility, which only accepts demolition and garden waste, is also equipped with a household (wet waste) and recyclables container unit. These containers are serviced weekly by an external service provider – all of the household refuse is then hauled to the Bontebok solid waste facility in Swellendam.

Should the abovementioned development go forth, a transfer station, which must be able to accommodate the volume of refuse generated internally, should be established at the entrance gate of the proposed development. This station shall then be serviced by either the contractor collecting the waste in Infanta, or the contractor hauling the waste to Swellendam. Details of such a station shall be considered during the civil services or the building plan application process.

I hope this will clarify the status quo of the current solid waste disposal function.

Please do not hesitate to contact us for any additional information.

Best regards

F. ERASMUS Pr. (Tech.) Eng.
DIRECTOR: INFRASTRUCTURE SERVICES

Appendix F. Options for Treatment and Disposal of Sewage Effluent at Erf 134 - Assessment by Ross Consultancy

(Letter Report by Ross Consultancy, Water, Effluent and Waste Management Consultants)

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ROSS CONSULTANCY

WATER, EFFLUENT AND WASTE
MANAGEMENT CONSULTANTS

WSMR ROSS

Dear Mr Alastair Fraser,

18 September 2020

Re: Treatment and Disposal of Domestic Sewage Effluent at Proposed New Housing Development on Erf 134 - Infanta

Our meeting on the 15th September 2020 in connection with the above matter, refers.

1) HOUSEHOLD CONSERVANCY TANKS

The emptying of conservancy tanks by municipal tankers and transportation of the effluent to the nearest WWTP at Swellendam is not recommended for the 21 houses on Erf 134 - Infanta, as this is a most costly ongoing option.

2) HOUSEHOLD PACKAGE TREATMENT PLANTS

This type of treatment system is not recommended as they require regular maintenance by trained operators who are not necessarily available in the area.

3) HOUSEHOLD SEPTIC TANKS AND SOAKAWAYS(FRENCH DRAINS)

This system is not only internationally recognized and has been applied for more than a century world- wide, but it is currently mainly being used at Infanta Village and Infanta Park without ill effect.

It is recommended that Septic Tanks and SOAKAWAYS be provided on Erf 134- Infanta as this system is self- managed and requires no operating skills , if properly designed and installed. After some 5 years operation, the biomass build- up might require partial sludge removal.

4) FUTURE ENLARGED INFANTA AREA

The total number of houses at Infanta Village, Infanta Park and on Erf 134 would amount to some 175. Further housing developments in the Infanta area would require an integrated sewage treatment system, such as that in operation at Vleesbaai (along the coast towards Mosselbay Bay). In such an instance, the sewage effluent from Septic Tanks is collected in communal sumps and from there pumped to a Maturation Pond System. The final effluent from such ponds conforms to the General Standards and can be used for irrigation.

For comparison purposes, Vleesbaai has 351 houses with an average sewage effluent flow of 12000 m³ per year.

5) CONCLUSION

I concur fully with the sentiments expressed in the Report by Parsons and Associates of 11th September 2020 titled Proposed Development on Erf 134 Infanta: Use of Septic Tanks.

Best Regards,
Dr. WR Ross

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