

Lea Jacobs

From: Ruaan Van Schalkwyk <ruaan@civilcs.co.za>
Sent: Monday, 30 September 2024 14:37
To: Lea Jacobs; 'Antonio Kerspay'
Subject: FW: Proposed Development on Erf 2006 Parsons Vlei

Hi Lea,

Please see trailing mails from Mr. C Bruintjies and Mr. C Tetyane confirming current sewer capacity.

Regards

Ruaan Van Schalkwyk
B.Tech Urban Engineering
☎ +27 76 891 9118
✉ ruaan@civilcs.co.za



From: Cebo Tetyane <ctetyane@mandelametro.gov.za>
Sent: Wednesday, 05 June 2024 10:08
To: Conrad Bruintjies <CBruintjies@mandelametro.gov.za>
Cc: John Ngobeni <jngobeni@mandelametro.gov.za>; Ruaan Van Schalkwyk <ruaan@civilcs.co.za>; 'zoliswa.nyila49@gmail.com' <zoliswa.nyila49@gmail.com>; Zoliswa Nyila <znyila@mandelametro.gov.za>; Laure Pieterse <LPIETERS@mandelametro.gov.za>
Subject: RE: Proposed Development on Erf 2006 Parsons Vlei

Good day, Ruan.

I trust that the information provided by [@Conrad Bruintjies](#) shall assist with the completion of your report.

Upon finalization of the report, please submit so that the development can be assessed against the current conditions of our sewerage system.

Also, the principle confirmation shall provide confirmation of the treatment capacities.

Regards,



 **Cebo Tetyana**
 **Project Manager**
 **Planning & Research**
 **Infrastructure & Engineering**
 041 506 2439
 071 266 3163
 ctetyane@mandelametro.gov.za

From: Conrad Bruintjies <CBruintjies@mandelametro.gov.za>
Sent: Wednesday, June 5, 2024 9:48 AM
To: Ruaan Van Schalkwyk <ruaan@civilcs.co.za>; Cebo Tetyane <ctetyane@mandelametro.gov.za>
Cc: John Ngobeni <jngobeni@mandelametro.gov.za>
Subject: RE: Proposed Development on Erf 2006 Parsons Vlei

Dear Mr. Van Schalkwyk,

There is currently a 225mm diameter sewer to the north of the site. Our Mr Tetyane will comment on the bulk capacity of this sewer to service the proposed development.

The effluent will be treated at the Fishwater Flats Treatment Works (FWFTW).

The current capacity of FWFTW is 132ML and is currently on average treating about 108ML per day.

Under the current FWFTW conditions, it would be able to treat the additional 0.07ML post development effluent of the proposed development.

Kind regards

Conrad Bruintjies

From: Ruaan Van Schalkwyk <ruaan@civilcs.co.za>
Sent: Tuesday, June 4, 2024 7:14 PM
To: Conrad Bruintjies <CBruintjies@mandelametro.gov.za>; Cebo Tetyane <ctetyane@mandelametro.gov.za>
Subject: Proposed Development on Erf 2006 Parsons Vlei

Good day Mr. C Bruintjies / Mr. C Tetyane

We are busy with the draft Engineering Services Report on the proposed development on Erf 2006 Parsons Vlei and would like to verify the following information from your department.

- There is an existing 225mm NMBM sewer main running near the northern boundary of Erf 2006 Parsons Vlei, where this development will connect into.
- The effluent of the proposed development will be treated by the NMBM Driftsands Sewer Treatment Works?
- What is the current capacity of Driftsands Sewer Treatment Works per day?

- What daily volume is Driftsands Sewer Treatment Works currently treating?
- Under current conditions – it should be possible for Driftsands Sewer Treatment Works to handle the additional post development effluent generated by this development (0.07ML per day)?

Sewer calculations based on **155 Units**:

Erf 2006 Parsons Vlei										
SEWER FLOW										
Unit Type	Bedrooms	Bathrooms	Area m ²	Number of units	ADWF per Unit l/d/e	Total ADWF l/d	Total ADWF l/s	Harmon PF	PDWF per Unit l/s/e	Total PDWF l
A	3	2	140	20	550	11000	0,127	3,8	0,024	0,4
B	2	2	55	46	400	18400	0,213	3,8	0,018	0,8
C	3	2	90	35	550	19250	0,223	3,8	0,024	0,8
D	2	2	76	20	400	8000	0,093	3,8	0,018	0,3
E	2	1	50	34	400	13600	0,157	3,8	0,018	0,5
TOTAL				155		70250	0,813			3,0

Kind regards

Ruaan Van Schalkwyk

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