

## CERTIFICATE OF ANALYSIS

Client : Cape Peninsula University of Technology      Report No : WT2021-05874      Delivery Date : 02/11/2021

Address : PO Box 652      Samples : 3      Order No/Ref : CP279180

Phone : 021 953 8497      Department : Water

Contact : Philadelphi Ngobeni      Sample Type : Unknown

Email : ngobeniphiladelphia@gmail.com

### Sample Information

	WT21-13218	WT21-13219	WT21-13220
Lab Number	02/11/2021	02/11/2021	02/11/2021
Sampling Date	16:00	16:00	16:00
Sampling Time	14.2	23.9	24.7
Sample Temperature °C:	Raw Wastewater	Repeat Run 1	Repeat Run 2
Sample ID:			

Microbiology Determinands	Method ID	Unit	Result
Heterotrophic Plate Count	1454	CFU/1mL	>3000
Total Coliforms (Membrane Filtration)	6386	cfu/100mL	1
E coli (Membrane Filtration)	6386	cfu/100mL	3
			>2000
			Not Detected
			Not Detected

### Terms and Conditions

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### Sample condition:

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Additional Information including: Testing date & time for all analysis are available on request

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\*\* - Outstanding

\*\*\* - Insufficient Sample

# - Subcontracted

UoM - Uncertainty of Measurement

Not Detected = <1 cfu's /mL or <1 MPN/100mL was detected

(R) - Test parameter has been Repeated to confirm value

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Micheline Gail Ernstzen  
Digitally signed by Micheline Gail Ernstzen  
Date: 2021.11.04 15:55:56 +02:00

## CERTIFICATE OF ANALYSIS

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Address : PO Box 652	Samples : 3	Order No/Ref : CP279180
Phone : 021 953 8497	Department : Water	
Contact : Philadelphi Ngobeni	Sample Type : Unknown	
Email : ngobeniphiladelphia@gmail.com		

Samples Registered by: Gail Samuels

Michelene Gail Ernstzen  
Technical Signatory  
Microbiology

## CERTIFICATE OF ANALYSIS

Client : Cape Peninsula University of Technology      Report No : WT2021-05455\_01      Delivery Date : 13/10/2021  
 Address : PO Box 652      Samples : 13      Order No/Ref : CP279180  
 Phone : 021 953 8497      Department : Water  
 Contact : Philadelphi Ngobeni      Sample Type : Effluent  
 Email : ngobeniphiladelphia@gmail.com

### Sample Information

Lab Number	WT21-12341	WT21-12342	WT21-12343
Sampling Date	12/10/2021	13/10/2021	13/10/2021
Sampling Time			
Sample Temperature °C:	12.8	18.1	17.8
Sample ID:	Run 34-With Ecoflush	Run 28-With Ecoflush	Run 31-With Ecoflush

General Chemistry	Method ID	Unit	Result		
Chemical Oxygen Demand (Unfiltered)	3289	mg/L	5110	2760	4160
Fat, Oils & Grease #	#	mg/L	22.0	48.0	20.0

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Client : Cape Peninsula University of Technology      Report No : WT2021-05455\_01      Delivery Date : 13/10/2021  
 Address : PO Box 652      Samples : 13      Order No/Ref : CP279180  
 Phone : 021 953 8497      Department : Water  
 Contact : Philadelphi Ngobeni      Sample Type : Effluent  
 Email : ngobeniphiladelphia@gmail.com

### Sample Information

Lab Number	WT21-12344	WT21-12345	WT21-12346
Sampling Date	12/10/2021	12/10/2021	12/10/2021
Sampling Time			
Sample Temperature °C:	19.8	13.5	13.2
Sample ID:	Run 9-With Ecoflush	Run 16-With Ecoflush	Run 23-With Ecoflush

### General Chemistry

	Method ID	Unit	Result		
Chemical Oxygen Demand (Unfiltered)	3289	mg/L	4680	4580	4570
Fat, Oils & Grease #	#	mg/L	4.0	74.0	6.0

## CERTIFICATE OF ANALYSIS

Client : Cape Peninsula University of Technology	Report No : WT2021-05455_01	Delivery Date : 13/10/2021
Address : PO Box 652	Samples : 13	Order No/Ref : CP279180
Phone : 021 953 8497	Department : Water	
Contact : Philadelphi Ngobeni	Sample Type : Effluent	
Email : ngobeniphiladelphia@gmail.com		

### Sample Information

Lab Number	WT21-12347	WT21-12348	WT21-12349
Sampling Date	12/10/2021	12/10/2021	12/10/2021
Sampling Time	12.0	13.1	12.5
Sample Temperature °C:	Run 29-With Ecoflush	Run 37-With Ecoflush	Run 15-With Ecoflush
Sample ID:			

### General Chemistry

	Method ID	Unit		Result	
Chemical Oxygen Demand (Unfiltered)	3289	mg/L	5140	5370	4710
Fat, Oils & Grease #	#	mg/L	6.0	<1.0	<1.0

## CERTIFICATE OF ANALYSIS

Client : Cape Peninsula University of Technology	Report No : WT2021-05455_01	Delivery Date : 13/10/2021
Address : PO Box 652	Samples : 13	Order No/Ref : CP279180
Phone : 021 953 8497	Department : Water	
Contact : Philadelphi Ngobeni	Sample Type : Effluent	
Email : ngobeniphiladelphia@gmail.com		

Sample Information			
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Lab Number	WT21-12350	WT21-12351	WT21-12352
Sampling Date	12/10/2021	12/10/2021	12/10/2021
Sampling Time			
Sample Temperature °C:	13.4	12.8	12.8
Sample ID:	Run 17-With Ecoflush	Run 21-With Ecoflush	Run 25-With Ecoflush

General Chemistry	Method ID	Unit	Result		
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Chemical Oxygen Demand (Unfiltered)	3289	mg/L	4190	4550	5240
Fat, Oils & Grease #	#	mg/L	<1.0	<1.0	<1.0

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Address : PO Box 652      Samples : 13      Order No/Ref : CP279180  
Phone : 021 953 8497      Department : Water  
Contact : Philadelphi Ngobeni      Sample Type : Effluent  
Email : ngobeniphiladelphia@gmail.com

### Sample Information

Lab Number	WT21-12353
Sampling Date	07/10/2021
Sampling Time	
Sample Temperature °C:	22.9
Sample ID:	Run 19-Without Ecoflush3

General Chemistry	Method ID	Unit	Result
Chemical Oxygen Demand (Unfiltered)	3289	mg/L	1110
Fat, Oils & Grease #	#	mg/L	<1.0

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Samples Registered by: Gail Samuels



Shaun Salie  
Technical Signatory  
(Water Chemistry)

## CERTIFICATE OF ANALYSIS

Client : Cape Peninsula University of Technology	Report No : WT2021-05412_01	Delivery Date : 11/10/2021
Address : PO Box 652	Samples : 27	Order No/Ref : CP279180
Phone : 021 953 8497	Department : Water	
Contact : Philadelphi Ngobeni	Sample Type : Effluent	
Email : ngobeniphiladelphia@gmail.com		

### Sample Information

Lab Number	WT21-12231	WT21-12232	WT21-12233
Sampling Date	07/10/2021	07/10/2021	07/10/2021
Sampling Time			
Sample Temperature °C:	15.7	17.3	14.8
Sample ID:	Run 3-Without Ecoflush	Run4-Without Ecoflush	Run8-Without Ecoflush

### General Chemistry

	Method ID	Unit		Result
Chemical Oxygen Demand (Unfiltered)	3289	mg/L	874	1280
Fat, Oils & Grease #	#	mg/L	<1.0	<1.0

## CERTIFICATE OF ANALYSIS

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Address : PO Box 652	Samples : 27	Order No/Ref : CP279180
Phone : 021 953 8497	Department : Water	
Contact : Philadelphi Ngobeni	Sample Type : Effluent	
Email : ngobeniphiladelphia@gmail.com		

### Sample Information

Lab Number	WT21-12234	WT21-12235	WT21-12236
Sampling Date	07/10/2021	06/10/2021	06/10/2021
Sampling Time			
Sample Temperature °C:	15.7	15.7	15.5
Sample ID:	Run 12-Without Ecoflush	Run 2-With Ecoflush	Run 5-With Ecoflush

General Chemistry	Method ID	Unit	Result		
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Chemical Oxygen Demand (Unfiltered)	3289	mg/L	1260	5700	5190
Fat, Oils & Grease #	#	mg/L	6.0	8.0	6.0

## CERTIFICATE OF ANALYSIS

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Address : PO Box 652	Samples : 27	Order No/Ref : CP279180
Phone : 021 953 8497	Department : Water	
Contact : Philadelphi Ngobeni	Sample Type : Effluent	
Email : ngobeniphiladelphia@gmail.com		

### Sample Information

Lab Number	WT21-12237	WT21-12238	WT21-12239
Sampling Date	06/10/2021	10/10/2021	07/10/2021
Sampling Time			
Sample Temperature °C:	15.5	15.2	15.0
Sample ID:	Run 6-With Ecoflush	Run 10-With Ecoflush	Run 14-Without Ecoflush

### General Chemistry

	Method ID	Unit			
Chemical Oxygen Demand (Unfiltered)	3289	mg/L	4600	4180	1350
Fat, Oils & Grease #	#	mg/L	48.0	4.0	<1.0

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Address : PO Box 652	Samples : 27	Order No/Ref : CP279180
Phone : 021 953 8497	Department : Water	
Contact : Philadelphi Ngobeni	Sample Type : Effluent	
Email : ngobeniphiladelphia@gmail.com		

### Sample Information

Lab Number	WT21-12240	WT21-12241	WT21-12242
Sampling Date	07/10/2021	08/10/2021	08/10/2021
Sampling Time			
Sample Temperature °C:	14.8	15.6	15.4
Sample ID:	Run 20-Without Ecoflush	Run 30-Without Ecoflush	Run 33-Without Ecoflush

### General Chemistry

Method ID	Unit	Result	Result	Result	
Chemical Oxygen Demand (Unfiltered)	3289	mg/L	1270	1280	740
Fat, Oils & Grease #	#	mg/L	<1.0	<1.0	<1.0

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Address : PO Box 652	Samples : 27	Order No/Ref : CP279180
Phone : 021 953 8497	Department : Water	
Contact : Philadelphi Ngobeni	Sample Type : Effluent	
Email : ngobeniphiladelphia@gmail.com		

### Sample Information

Lab Number	WT21-12243	WT21-12244	WT21-12245
Sampling Date	06/10/2021	10/10/2021	10/10/2021
Sampling Time			
Sample Temperature °C:	14.1	16.5	16.9
Sample ID:	Run 1-With Ecoflush	Run 13-With Ecoflush	Run 36-With Ecoflush

### General Chemistry

Method ID	Unit	Result	Result	Result
Chemical Oxygen Demand (Unfiltered)	mg/L	5440	4050	5170
Fat, Oils & Grease #	mg/L	4.0	2.0	<1.0

## CERTIFICATE OF ANALYSIS

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Phone : 021 953 8497	Department : Water	
Contact : Philadelphi Ngobeni	Sample Type : Effluent	
Email : ngobeniphiladelphia@gmail.com		

### Sample Information

Lab Number	WT21-12246	WT21-12247	WT21-12248
Sampling Date	10/10/2021	10/10/2021	10/10/2021
Sampling Time			
Sample Temperature °C:	16.2	16.1	17.9
Sample ID:	Run 38-With Ecoflush	Run 32-Without Ecoflush	Run 35-Without Ecoflush

### General Chemistry

	Method ID	Unit	5530	1290	914
Chemical Oxygen Demand (Unfiltered)	3289	mg/L			
Fat, Oils & Grease #	#	mg/L	2.0	<1.0	<1.0

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Address : PO Box 652	Samples : 27	Order No/Ref : CP279180
Phone : 021 953 8497	Department : Water	
Contact : Philadelphi Ngobeni	Sample Type : Effluent	
Email : ngobeniphiladelphia@gmail.com		

### Sample Information

Lab Number	WT21-12249	WT21-12250	WT21-12251
Sampling Date	10/10/2021	07/10/2021	08/10/2021
Sampling Time	17.3	16.0	15.8
Sample Temperature °C:	Run 39-Without Ecoflush	Run 7-Without Ecoflush	Run 22-Without Ecoflush
Sample ID:			

### General Chemistry

	Method ID	Unit			Result
Chemical Oxygen Demand (Unfiltered)	3289	mg/L	1360	1410	1170
Fat, Oils & Grease #	#	mg/L	10.0	<1.0	<1.0

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Address : PO Box 652	Samples : 27	Order No/Ref : CP279180
Phone : 021 953 8497	Department : Water	
Contact : Philadelphi Ngobeni	Sample Type : Effluent	
Email : ngobeniphiladelphia@gmail.com		

### Sample Information

Lab Number	WT21-12252	WT21-12253	WT21-12254
Sampling Date	08/10/2021	08/10/2021	07/10/2021
Sampling Time	15.5	15.3	17.2
Sample Temperature °C:	Run 26-Without Ecoflush	Run 27-Without Ecoflush	Run 11-Without Ecoflush
Sample ID:			

General Chemistry	Method ID	Unit		Result	
Chemical Oxygen Demand (Unfiltered)	3289	mg/L	1400	1380	1360
Fat, Oils & Grease #	#	mg/L	12.0	8.0	16.0

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Address : PO Box 652      Samples : 27      Order No/Ref : CP279180  
Phone : 021 953 8497      Department : Water  
Contact : Philadelphi Ngobeni      Sample Type : Effluent  
Email : ngobeniphiladelphia@gmail.com

### Sample Information

	WT21-12255	WT21-12256	WT21-12257
Lab Number	07/10/2021	08/10/2021	10/10/2021
Sampling Date			
Sampling Time			
Sample Temperature °C:	18.2	15.9	19.1
Sample ID:	Run 18-Without Ecoflush	Run 24-Without Ecoflush	Run 40-Without Ecoflush

General Chemistry	Method ID	Unit	Result		
Chemical Oxygen Demand (Unfiltered)	3289	mg/L	1620	1450	1250
Fat, Oils & Grease #	#	mg/L	4.0	2.0	<1.0

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Samples Registered by: Gail Samuels



Shaun Salie  
Technical Signatory  
(Water Chemistry)

## CERTIFICATE OF ANALYSIS

Client : Cape Peninsula University of Technology      Report No : WT2021-05412\_02      Delivery Date : 11/10/2021  
Address : PO Box 652      Samples : 3      Order No/Ref : CP279180  
Phone : 021 953 8497      Department : Water  
Contact : Philadelphi Ngobeni      Sample Type : Effluent  
Email : ngobeniphiladelphia@gmail.com

Sample Information			
Lab Number	WT21-12258	WT21-12259	WT21-12260
Sampling Date	07/10/2021	06/10/2021	10/10/2021
Sampling Time			
Sample Temperature °C:	16.1	16.0	17.8
Sample ID:	Raw Wastewater	Feed 06/10/2021	Feed 10/10/2021

Physical & Aesthetic Determinands	Method ID	Unit	Result		
Suspended Solids *	4993	mg/L	405	212	247

Macro Chemical Determinands	Method ID	Unit	Result		
Ammonia (NH3) as N	4511	mg/L	52.8	219	105

General Chemistry	Method ID	Unit	Result		
Chemical Oxygen Demand (Unfiltered)	3289	mg/L	3750	6490	5430
Orthophosphate (PO4) as P *	4511	mg/L	21.8	178	152
Fat, Oils & Grease #	#	mg/L	2.0	<1.0	<1.0

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Phone : 021 953 8497      Department : Water  
Contact : Philadelphi Ngobeni      Sample Type : Effluent  
Email : ngobeniphiladelphia@gmail.com

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Samples Registered by: Gail Samuels



Shaun Salie  
Technical Signatory  
(Water Chemistry)

## CERTIFICATE OF ANALYSIS

Client : Cape Peninsula University of Technology      Report No : WT2021-05876      Delivery Date : 02/11/2021  
Address : PO Box 652      Samples : 2      Order No/Ref : CP279180  
Phone : 021 953 8497      Department : Water  
Contact : Philadelphi Ngobeni      Sample Type : Unknown  
Email : ngobeniphiladelphia@gmail.com

Sample Information		
Lab Number	WT21-13222	WT21-13223
Sampling Date	02/11/2021	02/11/2021
Sampling Time		
Sample Temperature °C:	23.6	24.7
Sample ID:	Repeat Run 1	Repeat Run 2

Physical & Aesthetic Determinands	Method ID	Unit	Result
Suspended Solids *	4993	mg/L	234      241

Macro Chemical Determinands	Method ID	Unit	Result
Ammonia (NH3) as N	4511	mg/L	114      120

General Chemistry	Method ID	Unit	Result
Chemical Oxygen Demand (Unfiltered)	3289	mg/L	1770      2340
Orthophosphate (PO4) as P *	4511	mg/L	9.4      10.4
Fat, Oils & Grease #	#	mg/L	2.5      6.0

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Address : PO Box 652      Samples : 2      Order No/Ref : CP279180  
Phone : 021 953 8497      Department : Water  
Contact : Philadelphi Ngobeni      Sample Type : Unknown  
Email : ngobeniphiladelphia@gmail.com

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**\* - Not SANAS Accredited**

**\*\* - Outstanding**

**\*\*\* - Insufficient Sample**

**# - Subcontracted**

**UoM - Uncertainty of Measurement**

**Not Detected = <1 cfu's /mL or <1 MPN/100mL was detected**

**(R) - Test parameter has been Repeated to confirm value**

Samples Registered by: Gail Samuels



Shaun Salie  
Technical Signatory  
(Water Chemistry)