



CC CK97/47253/23

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DD SCIENCE
ENVIRONMENTAL MONITORING

TEST REPORT



CC CK97/47253/23

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Report Date: 15-Aug-19
 Ref: 25372/20190808

Attention: Trevor Brough
 Copy: Trevor Conserv Security

Sample identification

Type of sample:	Percy Sterwart	Associated Streams	Sampling	
Number of samples:	12			
Condition of sample(s):	Acceptable			

Sampling plan: N/A

Sampling procedure: N/A

Date Sampled: 8-Aug-2019
Date Received: 8-Aug-2019
Date of Lab Activity: 8-Aug-2019 to 15-Aug-2019

Disclaimer:

1. Results marked 'Not SANAS Accredited' in this report are not included in the SANAS schedule of accreditation of this laboratory.
2. Results marked 'Subcontracted Test' in this report are from external provider and are not included in the SANAS schedule of accreditation of this laboratory.
3. Opinions and interpretations expressed herein are outside the scope of SANAS Accreditation.

Test results:

Sample ID	Methods	Units	Blaauwbank River	Crocodile after convergence	Crocodile before convergence	Blaauwbank @ BOB	Potion 26 @ T-Junction	Blaauwbank after portion 26	Expanded Uncertainty of measurements (%)
Lab ID			25372/1	25372/2	25372/3	25372/4	25372/5	25372/6	
Sample Date			08/08/2019	08/08/2019	08/08/2019	08/08/2019	08/08/2019	08/08/2019	
Determinants									
pH	M001	@25°C	7.7	7.8	8.0	7.6	8.1	7.6	3.4
Conductivity @ 25°C	M002	mS/m	98	81	50	132	30	128	3.0
Suspended Solids	M006	mg/l @105°C	15.0	<10	<10	<10	<10	<10	2.9
*Nitrate	M021	mg/l	45	7.5	5.2	5.8	1.4	6.3	10
*Turbidity	M007	NTU	16	9.2	5.2	10	2.0	5.6	9.0
*Ammonia	M093	mg/lN	0.7	1.3	0.9	16	0.6	19	10
Chemical Oxygen Demand	M003	mg/l O ₂	20	20	40	40	<20	40	5.97
Sulphate	M020	mg/l	165	158	<40	425	<40	<40	3.2

Sample ID	Methods	Units	Bloubankspruit@N	Bloubankspruit af	Uprteam of Percy Steward Discharge	Downstream of Percy Steward Discharge	Percy Steward Discharge	Tweelopies @N14	Expanded Uncertainty of measurements (%)
Lab ID			25372/7	25372/8	25372/9	25372/10	25372/11	25372/12	
Sample Date			08/08/2019	08/08/2019	08/08/2019	08/08/2019	08/08/2019	08/08/2019	
Determinants									
pH	M001	@25°C	7.7	7.6	8.2	7.7	7.6	7.7	3.4
Conductivity @ 25°C	M002	mS/m	119	129	34	118	144	167	3.0
Suspended Solids	M006	mg/l @105°C	<10	370.0	<10	18.0	51.0	<10	2.9
*Nitrate	M021	mg/l	4.2	7.5	7.5	5.7	7.1	0.5	10
*Turbidity	M007	NTU	6.2	367	5.1	16	45	0.9	9.0
*Ammonia	M093	mg/lN	1.6	8.9	0.9	27	24	1.5	10
Chemical Oxygen Demand	M003	mg/l O ₂	140	633	24	176	261	<20	5.97
Sulphate	M020	mg/l	166	42	<40	173	175	1050	3.2

Sample ID	Methods	Units	Blaauwbank River	Crocodile after convergence	Crocodile before convergence	Blaauwbank @ BOB	Potion 26 @ T-Junction	Blaauwbank after portion 26	Expanded Uncertainty of measurements (%)
Lab ID			25372/1	25372/2	25372/3	25372/4	25372/5	25372/6	
Sample Date			08/08/2019	08/08/2019	08/08/2019	08/08/2019	08/08/2019	08/08/2019	
Determinants									
Standard Plate Count	M052	cfu/ml							7.6
Coliform	M053	cfu/100ml							10.2
Faecal Coliform	M054	cfu/100ml	0	10	30	0	0	0	11.6
<i>E. coli</i>	M054	cfu/100ml							9.3

Sample ID	Methods	Units	Bloubankspruit@ N14	Bloubankspruit after Tweelopies convergence	Uprteam of Percy Steward Discharge	Downstream of Percy Steward Discharge	Percy Steward Discharge	Tweelopies @N14	Expanded Uncertainty of measurements (%)
Lab ID			25372/7	25372/8	25372/9	25372/10	25372/11	25372/12	
Sample Date			08/08/2019	08/08/2019	08/08/2019	08/08/2019	08/08/2019	08/08/2019	
Determinants									
Standard Plate Count	M052	cfu/ml					273000		7.6
Coliform	M053	cfu/100ml					960000		10.2
Faecal Coliform	M054	cfu/100ml	20	6900	0	25000	220000	10	11.6
<i>E. coli</i>	M054	cfu/100ml					220000		9.3

*-Not SANAS Accredited.
O/S=Outstanding Results.

Opinions and interpretations (if any):

Approved by: Alfred Molubi (Technical Signatory)

Approved by: Lilly Seabi(Technical Signatory/Quality Manager)

Date of issue: 15-Aug-19

Please note: Trevor Brough

Copy: Trevor Conserv Security

so by law. The laboratory shall inform the customer in writing in advance.

2. Results relate only to the samples as received and tested;

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7. Any queries relating to the results, should be made within two weeks of date of issue of report.

8. Retention time of electronic report will be 5 years .

END OF REPORT