DD SCIENCE

ENVIRONMENTAL MONITORING

TEST REPORT

T0180

CC CK97/47253/23

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Report Date: 18-Oct-19
Ref: 25613/20191009

Attention: Trevor Brough
Copy: Trevor Conserv Security

Sample identification

Type of sample:	Water Samples			
Number of samples:	14			
Condition of sample(s):	Acceptable			

Sampling plan: N/A **Sampling procedure:** N/A

Date Sampled: 9-Oct-2019
Date Received: 10-Oct-2019
Date of Lab Activity: 10-Oct-2019 to 18-Oct-2019

Disclaimer:
1. Results marked 'Not SANAS Accredited' in this report are not included in the SANAS schedule of accreditation of this laboratory.
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Test results:

Sample ID	Methods	Units	Blaauwbank River	Crocodile after convergance	Crocodile before convergance	Blaauwbank @ BOB	Potion 26 @ T-Junction	Blaauwbank after portion 26	Bloubankspruit@N14	Expanded Uncertainty of measurements (%)
Lab ID			**25613/1**	**25613/2**	**25613/3**	**25613/4**	**25613/5**	**25613/6**	**25613/7**	
Sample Date			**2019/10/09**	**2019/10/09**	**2019/10/09**	**2019/10/09**	**2019/10/09**	**2019/10/09**	**2019/10/09**	
Determinants										
pH	M001	@25ºC	8.4	8.2	7.8	7.8	8.4	7.8	8.1	3.4
Conductivity	M002	mS/m@25ºC	112	96	69	148	39	146	107	3.0
Suspended Solids	M006	mg/l @ 105oc	<10	11	<10	<10	<10	<10	22	2.9
Sulphate	M020	mg/l	392	261	51	610	<40	594	109	10
*Nitrate	M021	mg/l	7.4	7.4	7.6	8.7	2.3	9.2	2.9	9.0
Chemical Oxygen Demand	M003	mg/l O2	<20	68	28	28	<20	<20	100	10
*Ammonia	M093	mg/l N	2.0	1.2	1.6	1.5	14	1.1	6.9	5.97
*Turbidity	M007	mg/NTU	4.4	7.0	3.6	6.7	20	4.5	7.3	3.2

Sample ID	Methods	Units	Bloubankspruit after Tweelopies convergance	Uprteam of Percy Steward Discharge	Downstream of Percy Steward Discharge	Percy Steward Discharge	Tweelopies @N14	Rietspruit Before convergance	Rietspruit After convergance	Expanded Uncertainty of measurements (%)
Lab ID			**25613/8**	**25613/9**	**25613/10**	**25613/11**	**25613/12**	**25613/13**	**25613/14**	
Sample Date			**2019/10/09**	**2019/10/09**	**2019/10/09**	**2019/10/09**	**2019/10/09**	**2019/10/09**	**2019/10/09**	
Determinants										
pH	M001	@25ºC	8.2	7.7	8.0	7.9	6.8	6.2	8.0	3.4
Conductivity	M002	mS/m@25ºC	106	37	108	134	327	327	161	3.0
Suspended Solids	M006	mg/l @ 105oc	20	80	19	28	<10	<10	10	2.9
Sulphate	M020	mg/l	106	<40	124	138	2190	2110	566	10
*Nitrate	M021	mg/l	3.3	1.7	2.6	4.0	7.6	7.4	4.4	9.0
Chemical Oxygen Demand	M003	mg/l O2	100	88	147	183	<20	<20	71	10
*Ammonia	M093	mg/l N	35	3.2	5.5	29	6.3	4.2	1.7	5.97
*Turbidity	M007	mg/NTU	11	28	11	15	1.3	1.1	11	3.2

Sample ID	Methods	Units	Blaauwbank River	Crocodile after convergance	Crocodile before convergance	Blaauwbank @ BOB	Potion 26 @ T-Junction	Blaauwbank after portion 26	Bloubankspruit@N14	Expanded Uncertainty of measurements (%)
Lab ID			**25613/1**	**25613/2**	**25613/3**	**25613/4**	**25613/5**	**25613/6**	**25613/7**	
Sample Date			**2019/10/09**	**2019/10/09**	**2019/10/09**	**2019/10/09**	**2019/10/09**	**2019/10/09**	**2019/10/09**	
Standard Plate Count	M052	cfu/ml								7.6
Coliform	M053	cfu/100ml								10.2
Faecal Coliform	M054	cfu/100ml	24	62	82	590	0	480	>8 000	11.6
E. coli	M054	cfu/100ml								9.3

Sample ID	Methods	Units	Bloubankspruit after Tweelopies	Uprteam of Percy Steward Discharge	Downstream of Percy Steward	Percy Steward Discharge	Tweelopies @N14	Rietspruit Before convergance	Rietspruit After convergance	Expanded Uncertainty of measurements (%)
Lab ID			**25613/8**	**25613/9**	**25613/10**	**25613/11**	**25613/12**	**25613/13**	**25613/14**	
Sample Date			**2019/10/09**	**2019/10/09**	**2019/10/09**	**2019/10/09**	**2019/10/09**	**2019/10/09**	**2019/10/09**	
Standard Plate Count	M052	cfu/ml				1930				7.6
Coliform	M053	cfu/100ml				>8 000				10.2
Faecal Coliform	M054	cfu/100ml	>8 000	2 300	>8 000	>8 000	86	140	>8 000	11.6
E. coli	M054	cfu/100ml				>8 000				9.3

***-Not SANAS Accredited.**

Opinions and interpretations (if any):

Approved by: T.R.Nemukula (Technical Signatory)

Approved by: Alfred Molubi (Technical Signatory)

Date of issue: 18-Oct-19

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END OF REPORT