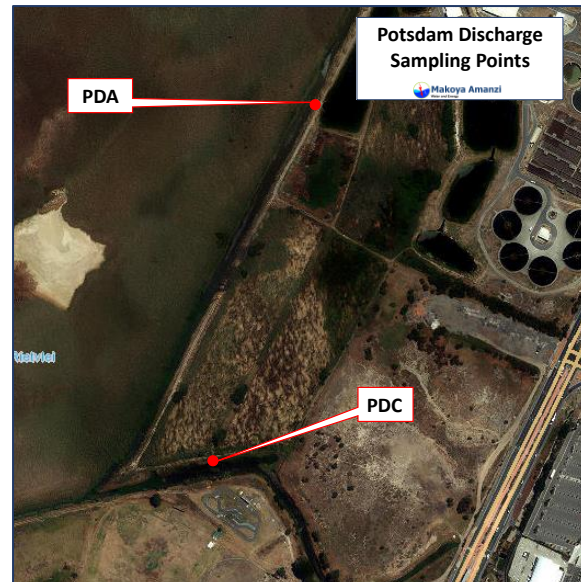




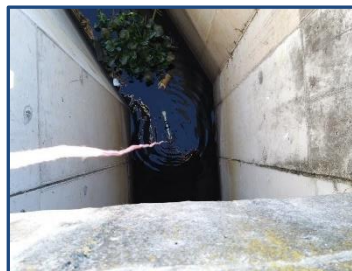
Diep River Sampling Report 06 May Sample

Notes on Potsdam Discharge Sampling Points and Results

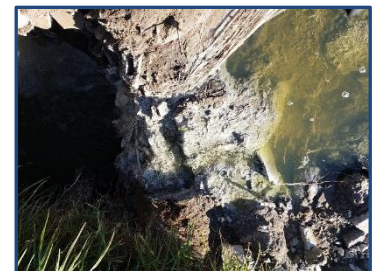
- Following on from the previous report, the focus of the sampling is on the Pots Dam plant's ability (in inability) to discharge effluent compliant with its water use licence.
- We have experienced 2 different discharge points:
 - PDA** – looks like the official discharge.
 - PDC** – looks like a temporary discharge after a large vegetation infested pond.



- On the 21st of April (previous sample) the only visible discharge was at PDC. PDA and the pond that feeds it was dry.
- However, on the 6th May, it looked like the PDA discharge was in the process of being re-commissioned and there were discharges at both PDA and PDC. We requested approval and sampled both points.



PDA



PDC

- Visually, the majority of the flow was still out of the “temporary” PDC discharge, but on a subsequent site visit with a rate payer, the discharge had reverted back to 100% out of PDA.



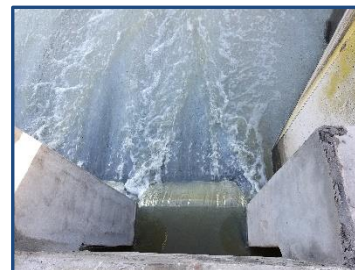


Pots Dam Discharge Results

	E-Coli PDA	E-Coli PDC	Potsdam 2015 Licence Limit	pH PDA	pH PDC	Potsdam 2015 Licence min	Potsdam 2015 Licence max	Electrical Cond- uctivity PDA	Electrical Cond- uctivity PDC	Potsdam 2015 Licence Limit	Total Susp. Solids PDA	Total Susp. Solids PDC	Potsdam 2015 Licence Limit
26 Feb 20	57 000		0	7.40		5.5	9.5	164		150	41		90
13 Mar 20	64 000		0	7.27		5.5	9.5	162		150	41		90
08 Apr 20		32000	0		7.18	5.5	9.5		175	150		2	90
21 Apr 20		12800	0		7.13	5.5	9.5		153	150		2	90
06 May 20	17 300	4400	0	7	6.9	5.5	9.5	132	239	150	2	2	90

	Nitrate as N PDA	Nitrate as N PDC	Potsdam 2015 Licence Limit	Ortho- phosphates PDA	Ortho- phosphates PDC	Potsdam 2015 Licence Limit	COD PDA	COD PDC	Potsdam 2015 Licence Limit	Amm- onia (NH3) PDA	Amm- onia (NH3) PDC	Amm- onia (NH4) PDA	Amm- onia (NH4) PDC	Potsdam 2015 Licence Limit
26 Feb 20	<0.50		15			5	87.2		75	36.91		30.36		10
13 Mar 20	<0.50		15			5	88.60		75	40.45		33.27		10
08 Apr 20		<0.10	15			5		16	75		46			10
21 Apr 20		3.03	15		8.06	5		30	75				23.6	10
06 May 20	<0.10	<0.10	15	4.74	34.5	5	66	133	75	5	90.8			10

- The results are generally non-compliant.
- However, the lower flow point and original points (PDA) is significantly better and compliant in all parameters except the E. coli.
- However the temporary discharge is still not good with very high ammonia and E. coli.
- The E coli still remains a major concern. On our interim non-sampling visit we noted that the structure at the PDA discharge weir looked bleached. This may have been due to excessive chlorination in order to control the E coli. This is positive, however indiscriminate chlorination must not be allowed as high levels will be very harmful to the aquatic life of the river.





General (all) Results

Date	Name	23 Jan 20	03 Feb 20	14 Feb 20	26 Feb 20	13 Mar 20	08 Apr 20	21 Apr 20	06 May 20
E-Coli	M14	1 100	300	200	200	800	20000	48000	420
	PDA				57 000	64 000			17 300
	PDB	11 000	34 000	43 000	49 000	46 000			
	PDD						63000	25000	25000
	PDC						32000	12800	4400
	TMS	6 000 000	18 000	2 600	2 400	31 000	143000	16000	3800
	MCC	2 900	25 000	2 500	4 700	71 000	31000	7700	110000

Date	Name	23 Jan 20	03 Feb 20	14 Feb 20	26 Feb 20	13 Mar 20	08 Apr 20	21 Apr 20	06 May 20
pH	M14	7.78	7.46	7.66	8.11	7.51	7.39	7.51	7.56
	PDA				7.40	7.27			7.39
	PDB	7.09	7.35	7.54	7.37	7.38			
	PDD						7.08	7.28	7.2
	PDC						7.18	7.13	6.9
	TMS	8.22	7.82	8.58	9.37	7.55	7.05	7.35	7.43
	MCC	7.84	8.26	7.81	7.82	7.25	7.25	7.72	7.45

Date	Name	23 Jan 20	03 Feb 20	14 Feb 20	26 Feb 20	13 Mar 20	08 Apr 20	21 Apr 20	06 May 20
Electrical Conductivity	M14	461	313	297	249	260	216	256	322
	PDA				163.9	162			132
	PDB	167.2	157.3	160.6	165.8	162			
	PDD						176	165	151
	PDC						175	153	239
	TMS	292	335	317	297	372	270	291	362
	MCC	957	1 038	2 240	1 328	777	1706	1101	447

Date	Name	23 Jan 20	03 Feb 20	14 Feb 20	26 Feb 20	13 Mar 20	08 Apr 20	21 Apr 20	06 May 20
Total Suspended Solids	M14	57	31	27	27	18	10.4		
	PDA				41	41			<2.00
	PDB	115	184	30	225	34			
	PDD						17.2	2	108
	PDC						<2.00	2	2.4
	TMS	87	15	26	6	13	13.6		
	MCC	29	44	26	21	25	16.4		

Date	Name	23 Jan 20	03 Feb 20	14 Feb 20	26 Feb 20	13 Mar 20	08 Apr 20	21 Apr 20	06 May 20
Nitrate as N	M14	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	0.14	0.42
	PDA				<0.50	<0.50			<0.10
	PDB	<0.50	<0.50	<0.50	<0.50	<0.50			
	PDD						<0.10	0.16	<0.10
	PDC						<0.10	3.03	<0.10
	TMS	<0.50	<0.50	<0.50	<0.50	<1	3.09	0.1	<0.10
	MCC	<0.50	<0.50	<0.50	<0.50	<0.50	0.11	0.1	<0.10



Date	Name	23 Jan 20	03 Feb 20	14 Feb 20	26 Feb 20	13 Mar 20	08 Apr 20	21 Apr 20	06 May 20
Ortho-phosphates	M14							5.02	2.94
	PDA								4.74
	PDB								
	PDD							5.71	4.36
	PDC							8.06	34.5
	TMS							0.88	0.74
	MCC							7.69	6.4

Date	Name	23 Jan 20	03 Feb 20	14 Feb 20	26 Feb 20	13 Mar 20	08 Apr 20	21 Apr 20	06 May 20
COD	M14	187	114	110	88.9	78.20	14.6	48	51
	PDA				87.2	88.60			66
	PDB	161	266	77.7	260	82.10			
	PDD						68	39	193
	PDC						16	30	133
	TMS	340	46.4	83.5	57.6	60.40	18	37	28
	MCC	250	319	494	326	218	<14.6	70	36

Date	Name	23 Jan 20	03 Feb 20	14 Feb 20	26 Feb 20	13 Mar 20	08 Apr 20	21 Apr 20	06 May 20
Faecal Coliforms	M14	2 000	400	300	500	800	17000		
	PDA				62 000	68 000			
	PDB	15 000	46 000	43 000	52 000	54 000			
	PDD						180000		
	PDC						24000		
	TMS	7 300 000	25 000	2 700	7 100	34 000	87000		
	MCC	3 300	53 000	2 500	5 700	73 000	21000		

Date	Name	23 Jan 20	03 Feb 20	14 Feb 20	26 Feb 20	13 Mar 20	08 Apr 20	21 Apr 20	06 May 20
Ammonia (NH3)	M14	0.43	2.61	9.63	19.03	14.19	20.5		4.34
	PDA				36.91	40.45			5.37
	PDB	22.08	18.80	37.74	36.54	38.37			
	PDD						40.2		7.43
	PDC						46		90.8
	TMS	11.79	0.16	0.39	0.16	3.08	2.2		0.22
	MCC	6.01	4.74	18.03	27.73	19.94	21.6		17.4

Date	Name	23 Jan 20	03 Feb 20	14 Feb 20	26 Feb 20	13 Mar 20	08 Apr 20	21 Apr 20	06 May 20
Free Chlorine	PDA					<0.02			
	PD						<0.2	0.1	0.02

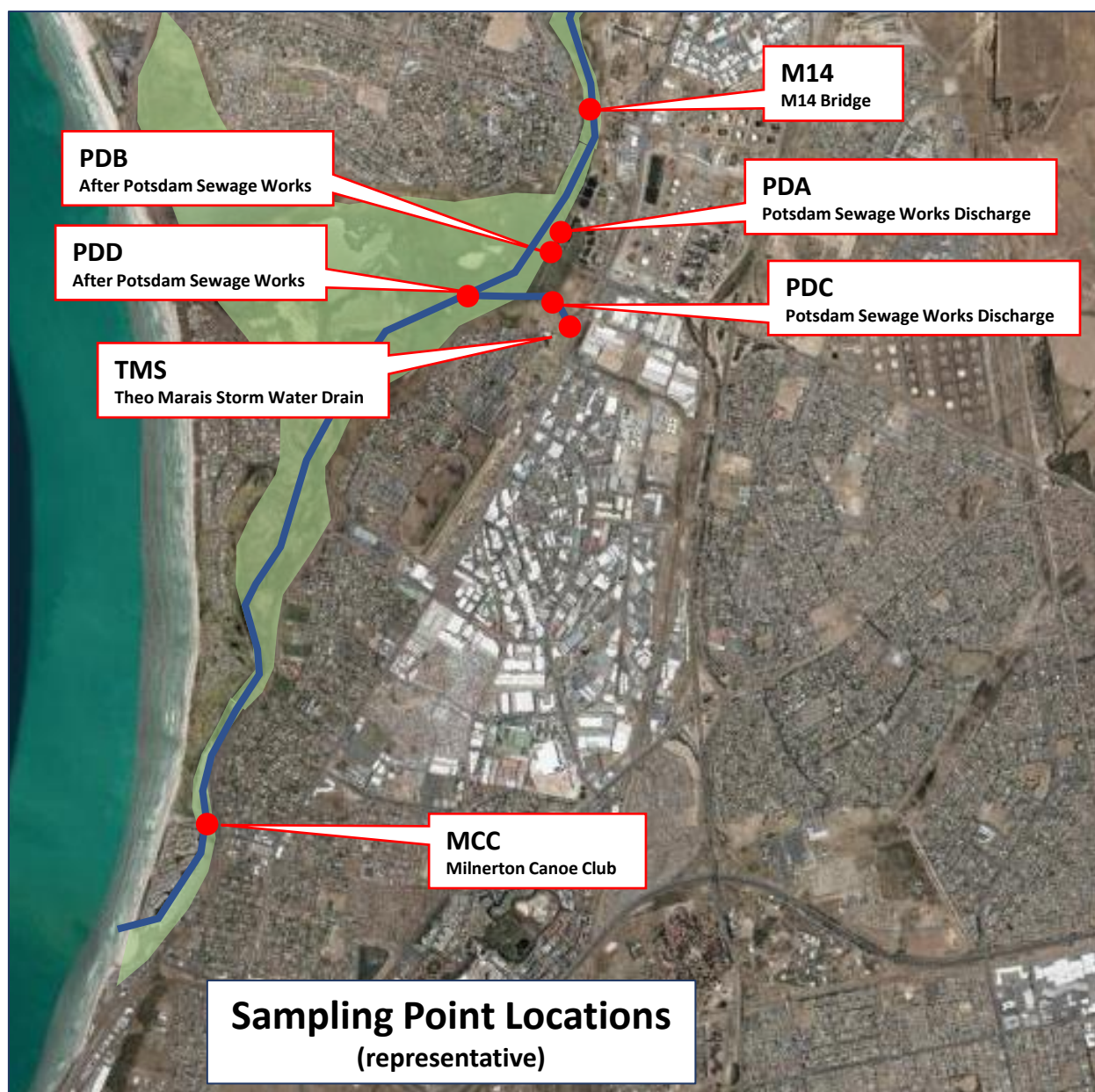
Date	Name	23 Jan 20	03 Feb 20	14 Feb 20	26 Feb 20	13 Mar 20	08 Apr 20	21 Apr 20	06 May 20
Ammonia (NH4)	M14	0.35	2.15	7.92	15.65	11.67		12	
	PDA				30.36	33.27			
	PDB	18.16	15.46	31.04	30.05	31.56			
	TMS	9.70	<0.15	0.32	<0.15	2.53		0.1	
	MCC	4.94	3.90	14.83	22.81	16.40		31.1	
	PDD							15.6	
	PDC							23.6	



Date	Name	23 Jan 20	03 Feb 20	14 Feb 20	26 Feb 20	13 Mar 20	08 Apr 20	21 Apr 20	06 May 20
Chloride (Cl)	PDC							233	302
	PDD							268	256
	PDA								216

Date	Name	23 Jan 20	03 Feb 20	14 Feb 20	26 Feb 20	13 Mar 20	08 Apr 20	21 Apr 20	06 May 20
Phosphorous	M14	2.71	3.30	7.89	6.60	7.20	7.26		
	PDA				6.85	10.75			
	PDB	8.95	12.10	8.27	5.08	10.20			
	PDD						8.54		
	PDC						10.3		
	TMS	2.10	<0.50	0.68	0.70	1.30	0.95		
	MCC	4.13	4.63	6.06	6.64	6.10	5.94		

Sample Locations

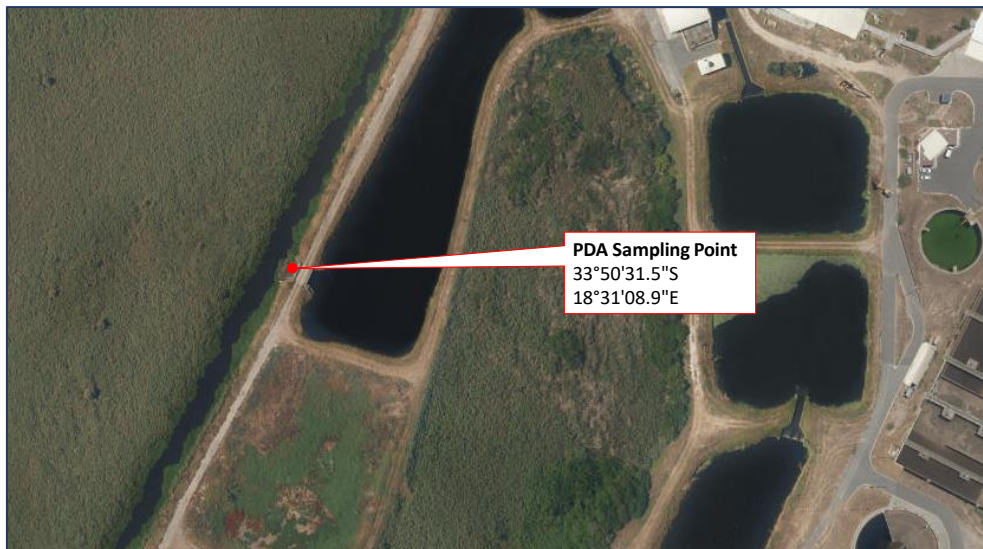


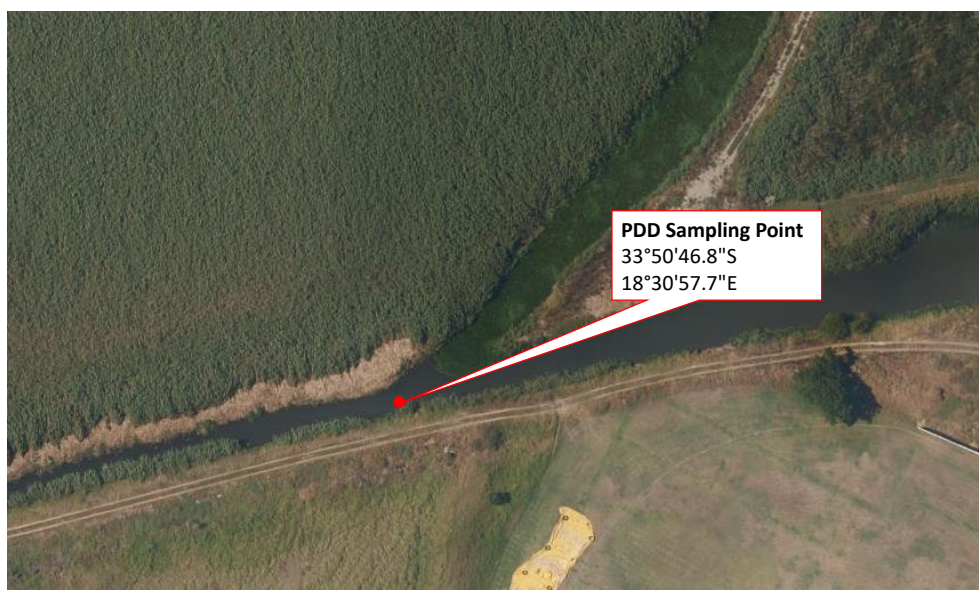
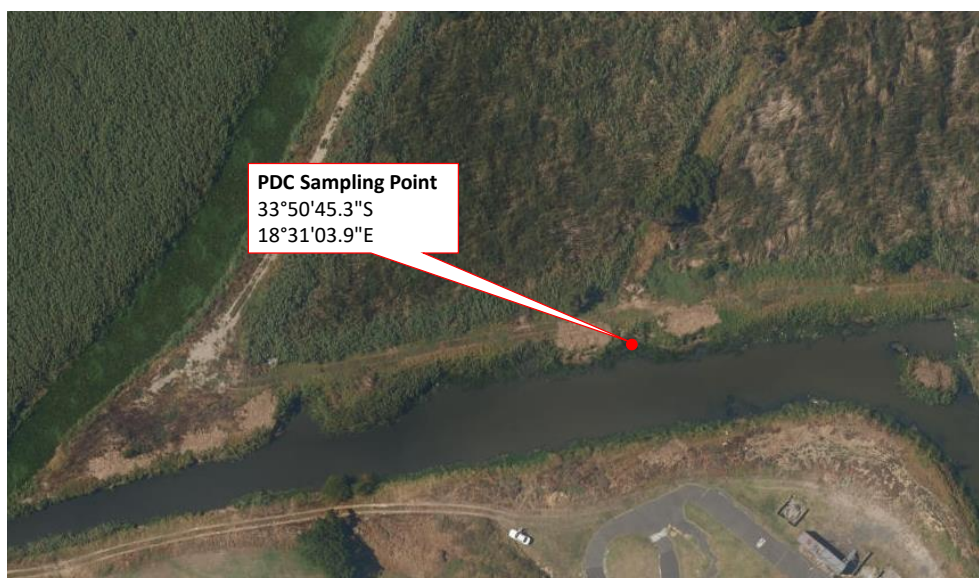


Detailed Sampling History Record Report

Detailed Sample Locations









23 Jan 2020

MCC – Milnerton Canoe Club

Date: 23 January 2020
Time: 09H10
Sampler: Craig Greggor
GPS Location: 33°52'53.2"S 18°29'23.0"E

Temperature	24°C
Cloud Cover	None
Wind	16km/h
Precipitation	None
Low Tide	08H41
High Tide	14H44

Observations and Photographic Records:

- No observations



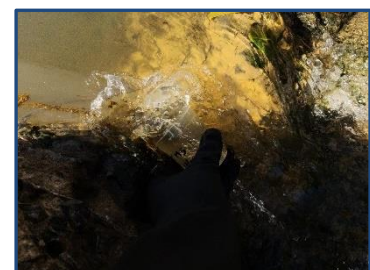
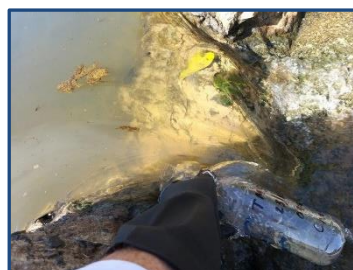
TMS – Theo Marais Stormwater Channel

Date: 23 January 2020
Time: 09H45
Sampler: Craig Greggor
GPS Location: 33°50'52.7"S 18°31'11.8"E

Temperature	25°C
Cloud Cover	None
Wind	16km/h
Precipitation	None
Low Tide	08H41
High Tide	14H44

Observations and Photographic Records:

- Makoya Amanzi noted anaerobic odours typical of raw sewage.
- Makoya Amanzi noted a stream of what looked like sewage flowing from an adjacent structure believed to be sewage lift station.





PDB – Potsdam

Date: 23 January 2020
Time: 10H30
Sampler: Craig Greggor
GPS Location: 33°50'36.2"S 18°31'05.9"E

Temperature	26°C
Cloud Cover	None
Wind	18km/h
Precipitation	None
Low Tide	08H41
High Tide	14H44

Observations and Photographic Records:

- A sampling weight was required due to the height of the bank.





M14 – Under the M14 bridge

Date: 23 January 2020

Time: 11H15

Sampler: Craig Greggor

GPS Location:

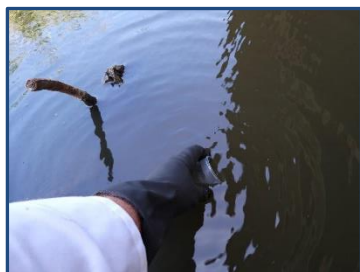
33°50'00.7"S 18°31'17.4"E

Weather Comment:

Temperature	26°C
Cloud Cover	None
Wind	18km/h
Precipitation	None
Low Tide	08H41
High Tide	14H44

Observations and Photographic Records:

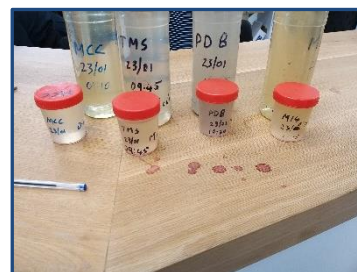
- A sampling weight was required due to the height of the bank.



Sample Submission

Date: 23 Jan 2020

Time: 12:34





Tel: 010 223 7133
Mobile: 083 642 8822
Fax: 0866 229 121
E-mail: info@makoya.net



OUTA

Attn: Julius Kleynhans
Contact No: 0871700639
318 Oak Avenue
Ferndale, Randburg
2160

Distillery Road
Stellenbosch
Tel: 021-8828866/7
info@vinlab.com
www.vinlab.com
27 Jan 2020



Sample ID		DW Limit	Sample Details		
Water Type	Water Source		W7582	W7584	W7585
Sample Temperature					
Description			MCC 23/01/08:10	PDB 23/01/10:30	M14 23/01/11:15
PO Number					
Date Received			23/01/2020	23/01/2020	23/01/2020
Condition			Good	Good	Good
			Water - Routine		
pH@25°C*	VIN-05-MW001		7.84	7.09	7.78
Conductivity@25°C*	VIN-05-MW002	µmS/m	957	187.2	461
COD*	VIN-05-MW003	mg/L	250	161	187
Ammonia NH4 as N*	VIN-05-MW008	mg/L	4.94	18.16	0.35
Nitrate as N*	VIN-05-MW008	mg/L	<0.50	<0.50	<0.50
Total suspended solids	VIN-05-MW008	mg/L	29.00	115.00	57.00
Ammonia NH3 as N	VIN-05-MW008	mg/L	6.01	22.08	0.43
Date Tested			23/01/2020	23/01/2020	23/01/2020
			Water - Micro		
Fecal Coliforms*	VIN-05-MW007	cfu/100 mL	3300	15000	2000
EColi*	VIN-05-MW007	cfu/100 mL	2900	11000	1100
Date Tested			23/01/2020	23/01/2020	23/01/2020
			Water - Metals		
Phosphorous P	VIN-05-MW007	mg/L	4.13	8.95	2.71
Date Tested			24/01/2020	24/01/2020	24/01/2020
Comment(s)					
Comment to 7582 - Two Samples received Comment to 7584 - Two Samples received Comment to 7585 - Two Samples received					

Actouie

Adelize Fourie

Laboratory Manager (Waterlab)

^aTest results relate only to the items tested as received. This Document shall not be reproduced without the written approval of Vinita (Pty) Ltd. Options and Interpretations expressed herein are outside the scope of SANAS accreditation. DW Limit applies to Drinking Water only.

f•sanas
Building the Leader
TOBEE

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Page 1 of 1

Doc No: V18307



OUTA

Attn: Julius Kleynhans
Contact No: 0871700639
318 Oak Avenue
Ferndale, Randburg
2160

Distillery Road
Stellenbosch
Tel: 021-8828866/7
info@vinlab.com
www.vinlab.com
28 Jan 2020



Sample Details		
Sample ID	DW Limit	W7583
Water Type		
Water Source		
Sample Temperature		
Description		TMS 23/01 05:45
PO Number		
Date Received		23/01/2020
Condition		Good
Water - Routine		
pH@25°C*	VIN-05-SW001	8.22
conductivity@25°C*	VIN-05-SW02	292
OD*	VIN-05-SW03	340
Ammonia NH4 as N*	VIN-05-SW08	9.70
Nitrate as N*	VIN-05-SW08	<0.50
total suspended solids		87.00
Ammonia NH3 as N		11.79
Date Tested		23/01/2020
Water - Micro		
Fecal Coliforms*	cfu/100 VIN-05-SW07	7300000
E. coli*	cfu/100 VIN-05-SW07	6000000
Date Tested		23/01/2020
Water - Metals		
Phosphorus P	mg/L	2.10
Date Tested		24/01/2020
Comment(s)		

Aetna

Adelize Fourie

Laboratory Manager (Waterlab)

[illegible]

isanas
hispanic literacy

[Link to Vinlab H2O](#)

Page 1 of 1

Doc No: V18342



09 Courbonne
Oakwood
Pinehurst
Durbanville
7550

Makoya Amanzi
Water and Energy

Sampling Sheet

Date: 23 Jan 2020 Site Arrival Time: 09:41

PPE (tick the applicable box)

Safety Shoes	☒	Dust Jacket	☒	Overalls	☐	Hardhat	☐
Solar Hat	☐	WP Gloves	☒	Waders	☐	High Viz Vest	☐

Weather Comment:

Temperature	<u>Fair 25°C</u>	Wind	<u>Fair 16 km/hr</u>
Cloud Cover	<u>None</u>	Precipitation	<u>None</u>

Sample Details:

Sample Name:	<u>TMS</u>	Sample Name:	<u>Chemical or Micro</u>
Type:	<u>Chemical or Micro</u>	Type:	<u>Chemical or Micro</u>
Time:	<u>09:45</u>	Time:	<u>Chemical or Micro</u>
Location & Description:	<u>Stream water - fair in Thio Plains</u>	Location & Description:	<u>Chemical or Micro</u>
Location GPS:	<u>Location sent</u>	Location GPS:	<u>Chemical or Micro</u>
Sampler(s):	<u>Craig Gregor</u>	Sampler(s):	<u>Chemical or Micro</u>

Sign-off

Sampler Name: Craig Gregor Observer Name: _____

Sampler Signature: [Signature] Observer Signature: _____

• Sampling area photos
• Sampling point photos

• Sample photos
• Cooler photos

Page 1 of 1
Sampling Sheet - Jan 2020
Makoya Amanzi Environmental Solutions CC
Sole Member: C A Gregor
Company registration #: CK 2005/068724/23
VAT #: 413 0222 054

09 Courbonne
Oakwood
Pinehurst
Durbanville
7550

Makoya Amanzi
Water and Energy

Sampling Sheet

Date: 23 Jan 2020 Site Arrival Time: 10:20

PPE (tick the applicable box)

Safety Shoes	☒	Dust Jacket	☒	Overalls	☐	Hardhat	☐
Solar Hat	☐	WP Gloves	☒	Waders	☐	High Viz Vest	☐

Weather Comment:

Temperature	<u>26°C</u>	Wind	<u>18 km/hr</u>
Cloud Cover	<u>None</u>	Precipitation	<u>None</u>

Sample Details:

Sample Name:	<u>DD B</u>	Sample Name:	<u>M14</u>
Type:	<u>Chemical or Micro</u>	Type:	<u>Chemical or Micro</u>
Time:	<u>10:30</u>	Time:	<u>11:15</u>
Location & Description:	<u>Pos. Durr after WWTP</u>	Location & Description:	<u>Under M14 Bridge</u>
Location GPS:	<u>Location sent</u>	Location GPS:	<u>Location sent</u>
Sampler(s):	<u>Craig Gregor</u>	Sampler(s):	<u>Craig Gregor</u>

Sign-off

Sampler Name: Craig Gregor Observer Name: _____

Sampler Signature: [Signature] Observer Signature: _____

• Sampling area photos
• Sampling point photos

• Sample photos
• Cooler photos

Page 1 of 1
Sampling Sheet - Jan 2020
Makoya Amanzi Environmental Solutions CC
Sole Member: C A Gregor
Company registration #: CK 2005/068724/23
VAT #: 413 0222 054



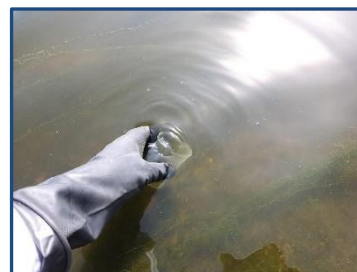
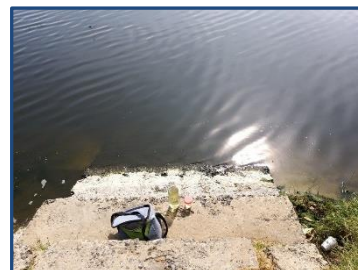
03 Feb 2020

MCC – Milnerton Canoe Club

Date: 03 February 2020
Time: 09h55
Sampler: Craig Greggor
GPS Location: 33°52'53.2"S 18°29'23.0"E

Temperature	19°C
Cloud Cover	None
Wind	8km/h
Precipitation	None
Low Tide	18H15
High Tide	12H40

Observations and Photographic Records:



TMS – Theo Marais Stormwater Channel

Date: 03 February 2020
Time: 08h10
Sampler: Craig Greggor
GPS Location: 33°50'52.7"S 18°31'11.8"E

Temperature	19°C
Cloud Cover	None
Wind	8km/h
Precipitation	None
Low Tide	18H15
High Tide	12H40

Observations and Photographic Records:





PDB – Potsdam

Date: 03 February 2020
Time: 08h30
Sampler: Craig Greggor
GPS Location: 33°50'36.2"S 18°31'05.9"E

Temperature	21°C
Cloud Cover	None
Wind	10km/h
Precipitation	None
Low Tide	18H15
High Tide	12H40

Observations and Photographic Records:

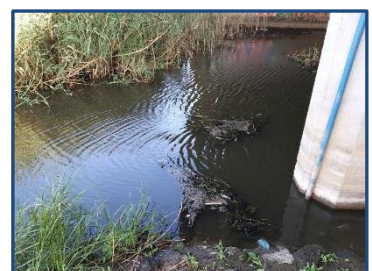
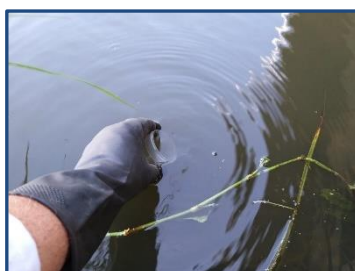


M14 – Under the M14 bridge

Date: 03 February 2020
Time: 08H30
Sampler: Craig Greggor
GPS Location: 33°50'00.7"S 18°31'17.4"E

Temperature	21°C
Cloud Cover	None
Wind	10km/h
Precipitation	None
Low Tide	18H15
High Tide	12H40

Observations and Photographic Records:





Sample Submission

Date: 03 Feb 2020

Time: 10:51



09 Courbonne Oakwood Pinehurst Durbanville 7550 Makoya Amanzi Water and Energy Tel: 010 223 7133 Mobile: 083 642 8822 Fax: 0866 229 121 E-mail: info@makoya.net		Sampling Sheet Date: <u>03 Feb 2020</u> Site Arrival Time: <u>08:15</u>																									
PPE (tick the applicable box) <table border="1"> <tr> <td>Safety Shoes</td> <td>☒</td> <td>Dust Jacket</td> <td>☒</td> <td>Overalls</td> <td>☐</td> <td>Hardhat</td> <td>☐</td> </tr> <tr> <td>Solar Hat</td> <td>☐</td> <td>WP Gloves</td> <td>☒</td> <td>Waders</td> <td>☐</td> <td>High Viz Vest</td> <td>☐</td> </tr> </table>				Safety Shoes	☒	Dust Jacket	☒	Overalls	☐	Hardhat	☐	Solar Hat	☐	WP Gloves	☒	Waders	☐	High Viz Vest	☐								
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Page 1 of 1 Makoya Amanzi Environmental Solutions CC Sole Member: C A Gregor Company registration #: CK 2005/068724/23 VAT #: 413 0222 054 Sampling Sheet - Jan 2020																											



Makoya Amanzi

Water and Energy

09 Courbonne
Oakwood
Pinehurst
Durbanville
7550

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Mobile: 083 642 8822
Fax: 0866 229 121
E-mail: info@makoya.net

09 Courbonne
Oakwood
Pinehurst
Durbanville
7550



Sampling Sheet

Date: 03 Feb 2020 Site Arrival Time: 07:57

PPE (tick the applicable box)

Safety Shoes	☒	Dust Jacket	☒	Overalls	☒	Hardhat	☐
Solar Hat	☐	WP Gloves	☒	Waders	☒	High Viz Vest	☐

Weather Comment:

Temperature	19°C	Wind	8 kph
Cloud Cover	None	Precipitation	None

Sample Details:

Sample Name:	TMS	Sample Name:	Chemical or Micro
Type:	Chemical or Micro	Type:	Chemical or Micro
Time:	08:10	Time:	
Location & Description:	Thoo Muna's Stream water	Location & Description:	
Location GPS:	Location sent	Location GPS:	
Sampler(s):	Craig Gregor	Sampler(s):	

Sample Name:	MCC	Sample Name:	Chemical or Micro
Type:	Chemical or Micro	Type:	Chemical or Micro
Time:	09:55	Time:	
Location & Description:	M. Lawrence Canoe Club	Location & Description:	
Location GPS:		Location GPS:	
Sampler(s):	Craig Gregor	Sampler(s):	

- Sampling area photos
- Sampling point photos
- Sample photos
- Cooler photos

Sign-off

Sampler Name: Craig Gregor Observer Name:

Sampler Signature: Observer Signature:

Makoya Amanzi Environmental Solutions CC
Sole Member: C A Gregor
Page 1 of 1
Sampling Sheet - Jan 2020
Company registration #: CK 2005/068724/23
VAT #: 413 0222 054

Distillery Road
Stellenbosch
Tel: 021-8828865/7
info@vinlab.com
www.vinlab.com
05 February 2020

TEST REPORT

Water



OUTA

Attn: Julius Kleyhans
Contact No: 0871700639
318 Oak Avenue
Zandale, Randburg
2160



@vinlabSA

Sample Details		W7866	W7867	W7868	W7869
Sample ID	DW Limit				
Water Type					
Water Source					
Sample Temperature					
Description		TMS - 03 Feb 08:10	MCC - 03 Feb 09:55	M14 - 03 Feb 08:30	PDB - 03 Feb 09:05
PO Number					
Date Received		2020/02/03	2020/02/03	2020/02/03	2020/02/03
Condition		Good	Good	Good	Good
Water - Routine					
pH/25°C*	VIN-05-SMW01	7.82	8.26	7.46	7.36
Conductivity/25°C* mS/m	VIN-05-SMW02	335	1038	313	157.3
COD*	VIN-05-SMW03	46.4	319	114	266
Ammonia NH4 as N*	VIN-05-SMW08	<0.15	3.90	2.15	15.46
Nitrate as N*	VIN-05-SMW08	<0.50	<0.50	<0.50	<0.50
Total suspended solids		15.00	44.00	31.00	184.00
Ammonia NH3 as N mg/L		0.16	4.74	2.61	18.80
Date Tested		2020/02/03	2020/02/03	2020/02/03	2020/02/03
Water - Micro					
Fecal Coliforms*	(cfu/100 ml)	25000	53000	400	46000
E-Coli*	(cfu/100 ml)	18000	25000	300	34000
Date Tested		2020/02/03	2020/02/03	2020/02/03	2020/02/03
Water - Metals					
Phosphorous P	mg/L	<0.50	4.83	3.30	12.10
Date Tested		2020/02/05	2020/02/05	2020/02/05	2020/02/05
Comment(s)					
Comment to 7866 - Two Samples received					
Comment to 7867 - Two Samples received					
Comment to 7868 - Two Samples received					
Comment to 7869 - Two Samples received					

Adelise Faurie

Laboratory Manager (Waterlab)
VIN-05-SMW01-SMW08 AND VIN-05-SMW09-SMW10-SMW11-SMW12-SMW13-SMW14-SMW15-SMW16-SMW17-SMW18-SMW19-SMW20-SMW21-SMW22-SMW23-SMW24-SMW25-SMW26-SMW27-SMW28-SMW29-SMW30-SMW31-SMW32-SMW33-SMW34-SMW35-SMW36-SMW37-SMW38-SMW39-SMW40-SMW41-SMW42-SMW43-SMW44-SMW45-SMW46-SMW47-SMW48-SMW49-SMW50-SMW51-SMW52-SMW53-SMW54-SMW55-SMW56-SMW57-SMW58-SMW59-SMW60-SMW61-SMW62-SMW63-SMW64-SMW65-SMW66-SMW67-SMW68-SMW69-SMW70-SMW71-SMW72-SMW73-SMW74-SMW75-SMW76-SMW77-SMW78-SMW79-SMW80-SMW81-SMW82-SMW83-SMW84-SMW85-SMW86-SMW87-SMW88-SMW89-SMW90-SMW91-SMW92-SMW93-SMW94-SMW95-SMW96-SMW97-SMW98-SMW99-SMW100-SMW101-SMW102-SMW103-SMW104-SMW105-SMW106-SMW107-SMW108-SMW109-SMW110-SMW111-SMW112-SMW113-SMW114-SMW115-SMW116-SMW117-SMW118-SMW119-SMW120-SMW121-SMW122-SMW123-SMW124-SMW125-SMW126-SMW127-SMW128-SMW129-SMW130-SMW131-SMW132-SMW133-SMW134-SMW135-SMW136-SMW137-SMW138-SMW139-SMW140-SMW141-SMW142-SMW143-SMW144-SMW145-SMW146-SMW147-SMW148-SMW149-SMW150-SMW151-SMW152-SMW153-SMW154-SMW155-SMW156-SMW157-SMW158-SMW159-SMW160-SMW161-SMW162-SMW163-SMW164-SMW165-SMW166-SMW167-SMW168-SMW169-SMW170-SMW171-SMW172-SMW173-SMW174-SMW175-SMW176-SMW177-SMW178-SMW179-SMW180-SMW181-SMW182-SMW183-SMW184-SMW185-SMW186-SMW187-SMW188-SMW189-SMW190-SMW191-SMW192-SMW193-SMW194-SMW195-SMW196-SMW197-SMW198-SMW199-SMW200-SMW201-SMW202-SMW203-SMW204-SMW205-SMW206-SMW207-SMW208-SMW209-SMW210-SMW211-SMW212-SMW213-SMW214-SMW215-SMW216-SMW217-SMW218-SMW219-SMW220-SMW221-SMW222-SMW223-SMW224-SMW225-SMW226-SMW227-SMW228-SMW229-SMW230-SMW231-SMW232-SMW233-SMW234-SMW235-SMW236-SMW237-SMW238-SMW239-SMW240-SMW241-SMW242-SMW243-SMW244-SMW245-SMW246-SMW247-SMW248-SMW249-SMW250-SMW251-SMW252-SMW253-SMW254-SMW255-SMW256-SMW257-SMW258-SMW259-SMW260-SMW261-SMW262-SMW263-SMW264-SMW265-SMW266-SMW267-SMW268-SMW269-SMW270-SMW271-SMW272-SMW273-SMW274-SMW275-SMW276-SMW277-SMW278-SMW279-SMW280-SMW281-SMW282-SMW283-SMW284-SMW285-SMW286-SMW287-SMW288-SMW289-SMW290-SMW291-SMW292-SMW293-SMW294-SMW295-SMW296-SMW297-SMW298-SMW299-SMW300-SMW301-SMW302-SMW303-SMW304-SMW305-SMW306-SMW307-SMW308-SMW309-SMW310-SMW311-SMW312-SMW313-SMW314-SMW315-SMW316-SMW317-SMW318-SMW319-SMW320-SMW321-SMW322-SMW323-SMW324-SMW325-SMW326-SMW327-SMW328-SMW329-SMW330-SMW331-SMW332-SMW333-SMW334-SMW335-SMW336-SMW337-SMW338-SMW339-SMW340-SMW341-SMW342-SMW343-SMW344-SMW345-SMW346-SMW347-SMW348-SMW349-SMW350-SMW351-SMW352-SMW353-SMW354-SMW355-SMW356-SMW357-SMW358-SMW359-SMW360-SMW361-SMW362-SMW363-SMW364-SMW365-SMW366-SMW367-SMW368-SMW369-SMW370-SMW371-SMW372-SMW373-SMW374-SMW375-SMW376-SMW377-SMW378-SMW379-SMW380-SMW381-SMW382-SMW383-SMW384-SMW385-SMW386-SMW387-SMW388-SMW389-SMW390-SMW391-SMW392-SMW393-SMW394-SMW395-SMW396-SMW397-SMW398-SMW399-SMW400-SMW401-SMW402-SMW403-SMW404-SMW405-SMW406-SMW407-SMW408-SMW409-SMW410-SMW411-SMW412-SMW413-SMW414-SMW415-SMW416-SMW417-SMW418-SMW419-SMW420-SMW421-SMW422-SMW423-SMW424-SMW425-SMW426-SMW427-SMW428-SMW429-SMW430-SMW431-SMW432-SMW433-SMW434-SMW435-SMW436-SMW437-SMW438-SMW439-SMW440-SMW441-SMW442-SMW443-SMW444-SMW445-SMW446-SMW447-SMW448-SMW449-SMW450-SMW451-SMW452-SMW453-SMW454-SMW455-SMW456-SMW457-SMW458-SMW459-SMW460-SMW461-SMW462-SMW463-SMW464-SMW465-SMW466-SMW467-SMW468-SMW469-SMW470-SMW471-SMW472-SMW473-SMW474-SMW475-SMW476-SMW477-SMW478-SMW479-SMW480-SMW481-SMW482-SMW483-SMW484-SMW485-SMW486-SMW487-SMW488-SMW489-SMW490-SMW491-SMW492-SMW493-SMW494-SMW495-SMW496-SMW497-SMW498-SMW499-SMW500-SMW501-SMW502-SMW503-SMW504-SMW505-SMW506-SMW507-SMW508-SMW509-SMW510-SMW511-SMW512-SMW513-SMW514-SMW515-SMW516-SMW517-SMW518-SMW519-SMW520-SMW521-SMW522-SMW523-SMW524-SMW525-SMW526-SMW527-SMW528-SMW529-SMW530-SMW531-SMW532-SMW533-SMW534-SMW535-SMW536-SMW537-SMW538-SMW539-SMW540-SMW541-SMW542-SMW543-SMW544-SMW545-SMW546-SMW547-SMW548-SMW549-SMW550-SMW551-SMW552-SMW553-SMW554-SMW555-SMW556-SMW557-SMW558-SMW559-SMW560-SMW561-SMW562-SMW563-SMW564-SMW565-SMW566-SMW567-SMW568-SMW569-SMW570-SMW571-SMW572-SMW573-SMW574-SMW575-SMW576-SMW577-SMW578-SMW579-SMW580-SMW581-SMW582-SMW583-SMW584-SMW585-SMW586-SMW587-SMW588-SMW589-SMW590-SMW591-SMW592-SMW593-SMW594-SMW595-SMW596-SMW597-SMW598-SMW599-SMW600-SMW601-SMW602-SMW603-SMW604-SMW605-SMW606-SMW607-SMW608-SMW609-SMW610-SMW611-SMW612-SMW613-SMW614-SMW615-SMW616-SMW617-SMW618-SMW619-SMW620-SMW621-SMW622-SMW623-SMW624-SMW625-SMW626-SMW627-SMW628-SMW629-SMW630-SMW631-SMW632-SMW633-SMW634-SMW635-SMW636-SMW637-SMW638-SMW639-SMW640-SMW641-SMW642-SMW643-SMW644-SMW645-SMW646-SMW647-SMW648-SMW649-SMW650-SMW651-SMW652-SMW653-SMW654-SMW655-SMW656-SMW657-SMW658-SMW659-SMW660-SMW661-SMW662-SMW663-SMW664-SMW665-SMW666-SMW667-SMW668-SMW669-SMW670-SMW671-SMW672-SMW673-SMW674-SMW675-SMW676-SMW677-SMW678-SMW679-SMW680-SMW681-SMW682-SMW683-SMW684-SMW685-SMW686-SMW687-SMW688-SMW689-SMW690-SMW691-SMW692-SMW693-SMW694-SMW695-SMW696-SMW697-SMW698-SMW699-SMW700-SMW701-SMW702-SMW703-SMW704-SMW705-SMW706-SMW707-SMW708-SMW709-SMW710-SMW711-SMW712-SMW713-SMW714-SMW715-SMW716-SMW717-SMW718-SMW719-SMW720-SMW721-SMW722-SMW723-SMW724-SMW725-SMW726-SMW727-SMW728-SMW729-SMW730-SMW731-SMW732-SMW733-SMW734-SMW735-SMW736-SMW737-SMW738-SMW739-SMW740-SMW741-SMW742-SMW743-SMW744-SMW745-SMW746-SMW747-SMW748-SMW749-SMW750-SMW751-SMW752-SMW753-SMW754-SMW755-SMW756-SMW757-SMW758-SMW759-SMW760-SMW761-SMW762-SMW763-SMW764-SMW765-SMW766-SMW767-SMW768-SMW769-SMW770-SMW771-SMW772-SMW773-SMW774-SMW775-SMW776-SMW777-SMW778-SMW779-SMW780-SMW781-SMW782-SMW783-SMW784-SMW785-SMW786-SMW787-SMW788-SMW789-SMW790-SMW791-SMW792-SMW793-SMW794-SMW795-SMW796-SMW797-SMW798-SMW799-SMW800-SMW801-SMW802-SMW803-SMW804-SMW805-SMW806-SMW807-SMW808-SMW809-SMW810-SMW811-SMW812-SMW813-SMW814-SMW815-SMW816-SMW817-SMW818-SMW819-SMW820-SMW821-SMW822-SMW823-SMW824-SMW825-SMW826-SMW827-SMW828-SMW829-SMW830-SMW831-SMW832-SMW833-SMW834-SMW835-SMW836-SMW837-SMW838-SMW839-SMW840-SMW841-SMW842-SMW843-SMW844-SMW845-SMW846-SMW847-SMW848-SMW849-SMW850-SMW851-SMW852-SMW853-SMW854-SMW855-SMW856-SMW857-SMW858-SMW859-SMW860-SMW861-SMW862-SMW863-SMW864-SMW865-SMW866-SMW867-SMW868-SMW869-SMW870-SMW871-SMW872-SMW873-SMW874-SMW875-SMW876-SMW877-SMW878-SMW879-SMW880-SMW881-SMW882-SMW883-SMW884-SMW885-SMW886-SMW887-SMW888-SMW889-SMW890-SMW891-SMW892-SMW893-SMW894-SMW895-SMW896-SMW897-SMW898-SMW899-SMW900-SMW901-SMW902-SMW903-SMW904-SMW905-SMW906-SMW907-SMW908-SMW909-SMW910-SMW911-SMW912-SMW913-SMW914-SMW915-SMW916-SMW917-SMW918-SMW919-SMW920-SMW921-SMW922-SMW923-SMW924-SMW925-SMW926-SMW927-SMW928-SMW929-SMW930-SMW931-SMW932-SMW933-SMW934-SMW935-SMW936-SMW937-SMW938-SMW939-SMW940-SMW941-SMW942-SMW943-SMW944-SMW945-SMW946-SMW947-SMW948-SMW949-SMW950-SMW951-SMW952-SMW953-SMW954-SMW955-SMW956-SMW957-SMW958-SMW959-SMW960-SMW961-SMW962-SMW963-SMW964-SMW965-SMW966-SMW967-SMW968-SMW969-SMW970-SMW971-SMW972-SMW973-SMW974-SMW975-SMW976-SMW977-SMW978-SMW979-SMW980-SMW981-SMW982-SMW983-SMW984-SMW985-SMW986-SMW987-SMW988-SMW989-SMW990-SMW991-SMW992-SMW993-SMW994-SMW995-SMW996-SMW997-SMW998-SMW999-SMW1000-SMW1001-SMW1002-SMW1003-SMW1004-SMW1005-SMW1006-SMW1007-SMW1008-SMW1009-SMW1010-SMW1011-SMW1012-SMW1013-SMW1014-SMW1015-SMW1016-SMW1017-SMW1018-SMW1019-SMW1020-SMW1021-SMW1022-SMW1023-SMW1024-SMW1025-SMW1026-SMW1027-SMW1028-SMW1029-SMW1030-SMW1031-SMW1032-SMW1033-SMW1034-SMW1035-SMW1036-SMW1037-SMW1038-SMW1039-SMW1040-SMW1041-SMW1042-SMW1043-SMW1044-SMW1045-SMW1046-SMW1047-SMW1048-SMW1049-SMW1050-SMW1051-SMW1052-SMW1053-SMW1054-SMW1055-SMW1056-SMW1057-SMW1058-SMW1059-SMW1060-SMW1061-SMW1062-SMW1063-SMW1064-SMW1065-SMW1066-SMW1067-SMW1068-SMW1069-SMW1070-SMW1071-SMW1072-SMW1073-SMW1074-SMW1075-SMW1076-SMW1077-SMW1078-SMW1079-SMW1080-SMW1081-SMW1082-SMW1083-SMW1084-SMW1085-SMW1086-SMW1087-SMW1088-SMW1089-SMW1090-SMW1091-SMW1092-SMW1093-SMW1094-SMW1095-SMW1096-SMW1097-SMW1098-SMW1099-SMW1100-SMW1101-SMW1102-SMW1103-SMW1104-SMW1105-SMW1106-SMW1107-SMW1108-SMW1109-SMW1110-SMW1111-SMW1112-SMW1113-SMW1114-SMW1115-SMW1116-SMW1117-SMW1118-SMW1119-SMW1120-SMW1121-SMW1122-SMW1123-SMW1124-SMW1125-SMW1126-SMW1127-SMW1128-SMW1129-SMW1130-SMW1131-SMW1132-SMW1133-SMW1134-SMW1135-SMW1136-SMW1137-SMW1138-SMW1139-SMW1140-SMW1141-SMW1142-SMW1143-SMW1144-SMW1145-SMW1146-SMW1147-SMW1148-SMW1149-SMW1150-SMW1151-SMW1152-SMW1153-SMW1154-SMW1155-SMW1156-SMW1157-SMW1158-SMW1159-SMW1160-SMW1161-SMW1162-SMW1163-SMW1164-SMW1165-SMW1166-SMW1167-SMW1168-SMW1169-SMW1170-SMW1171-SMW1172-SMW1173-SMW1174-SMW1175-SMW1176-SMW1177-SMW1178-SMW1179-SMW1180-SMW1181-SMW1182-SMW1183-SMW1184-SMW1185-SMW1186-SMW1187-SMW1188-SMW1189-SMW1190-SMW1191-SMW1192-SMW1193-SMW1194-SMW1195-SMW1196-SMW1197-SMW1198-SMW1199-SMW1200-SMW1201-SMW1202-SMW1203-SMW1204-SMW1205-SMW1206-SMW1207-SMW1208-SMW1209-SMW1210-SMW1211-SMW1212-SMW1213-SMW1214-SMW1215-SMW1216-SMW1217-SMW1218-SMW1219-SMW1220-SMW1221-SMW1222-SMW1223-SMW1224-SMW1225-SMW1226-SMW1227-SMW1228-SMW1229-SMW1230-SMW1231-SMW1232-SMW1233-SMW1234-SMW1235-SMW1236-SMW1237-SMW1238-SMW1239-SMW1240-SMW1241-SMW1242-SMW1243-SMW1244-SMW1245-SMW1246-SMW1247-SMW1248-SMW1249-SMW1250-SMW1251-SMW1252-SMW1253-SMW1254-SMW1255-SMW1256-SMW1257-SMW1258-SMW1259-SMW1260-SMW1261-SMW1262-SMW1263-SMW1264-SMW1265-SMW1266-SMW1267-SMW1268-SMW1269-SMW1270-SMW1271-SMW1272-SMW1273-SMW1274-SMW1275-SMW1276-SMW1277-SMW1278-SMW1279-SMW1280-SMW1281-SMW1282-SMW1283-SMW1284-SMW1285-SMW1286-SMW1287-SMW1288-SMW1289-SMW1290-SMW1291-SMW1292-SMW1293-SMW1294-SMW1295-SMW1296-SMW1297-SMW1298-SMW1299-SMW1300-SMW1301-SMW1302-SMW1303-SMW1304-SMW1305-SMW1306-SMW1307-SMW1308-SMW1309-SMW1310-SMW1311-SMW1312-SMW1313-SMW1314-SMW1315-SMW1316-SMW1317-SMW1318-SMW1319-SMW1320-SMW1321-SMW1322-SMW1323-SMW1324-SMW1325-SMW1326-SMW1327-SMW1328-SMW1329-SMW1330-SMW1331-SMW1332-SMW1333-SMW1334-SMW1335-SMW1336-SMW1337-SMW1338-SMW1339-SMW1340-SMW1341-SMW1342-SMW1343-SMW1344-SMW1345-SMW1346-SMW1347-SMW1348-SMW1349-SMW1350-SMW1351-SMW1352-SMW1353-SMW1354-SMW1355-SMW1356-SMW1357-SMW1358-SMW1359-SMW1360-SMW1361-SMW1362-SMW1363-SMW1364-SMW1365-SMW1366-SMW1367-SMW1368-SMW1369-SMW1370-SMW1371-SMW1372-SMW1373-SMW1374-SMW1375-SMW1376-SMW1377-SMW1378-SMW1379-SMW1380-SMW1381-SMW1382-SMW1383-SMW1384-SMW1385-SMW1386-SMW1387-SMW1388-SMW1389-SMW1390-SMW1391-SMW1392-SMW1393-SMW1394-SMW1395-SMW1396-SMW1397-SMW1398-SMW1399-SMW1400-SMW1401-SMW1402-SMW1403-SMW1404-SMW1405-SMW1406-SMW1407-SMW1408-SMW1409-SMW1410-SMW1411-SMW1412-SMW1413-SMW1414-SMW1415-SMW1416-SMW1417-SMW1418-SMW1419-SMW1420-SMW1421-SMW1422-SMW1423-SMW1424-SMW1425-SMW1426-SMW1427-SMW1428-SMW1429-SMW1430-SMW1431-SMW1432-SMW1433-SMW1434-SMW1435-SMW1436-SMW1437-SMW1438-SMW1439-SMW1440-SMW1441-SMW1442-SMW1443-SMW1444-SMW1445-SMW1446-SMW1447-SMW1448-SMW1449-SMW1450-SMW1451-SMW1452-SMW1453-SMW1454-SMW1455-SMW1456-SMW1457-SMW1458-SMW1459-SMW1460-SMW1461-SMW1462-SMW1463-SMW1464-SMW1465-SMW1466-SMW1467-SMW1468-SMW1469-SMW1470-SMW1471-SMW1472-SMW1473-SMW1474-SMW1475-SMW1476-SMW1477-SMW1478-SMW1479-SMW1480-SMW1481-SMW1482-SMW1483-SMW1484-SMW1485-SMW1486-SMW1487-SMW1488-SMW1489-SMW1490-SMW1491-SMW1492-SMW1493-SMW1494-SMW1495-SMW1496-SMW1497-SMW1498-SMW1499-SMW1500-SMW1501-SMW1502-SMW1503-SMW1504-SMW1505-SMW1506-SMW1507-SMW1508-SMW1509-SMW1510-SMW1511-SMW1512-SMW1513-SMW1514-SMW1515-SMW1516-SMW1517-SMW1518-SMW1519-SMW1520-SMW1521-SMW1522-SMW1523-SMW1524-SMW1525-SMW1526-SMW1527-SMW1528-SMW1529-SMW1530-SMW1531-SMW1532-SMW1533-SMW1534-SMW1535-SMW1536-SMW1537-SMW1538-SMW1539-SMW1540-SMW1541-SMW1542-SMW1543-SMW1544-SMW1545-SMW1546-SMW1547-SMW1548-SMW1549-SMW1550-SMW1551-SMW1552-SMW1553-SMW1554-SMW1555-SMW1556-SMW1557-SMW1558-SMW1559-SMW1560-SMW1561-SMW1562-SMW1563-SMW1564-SMW1565-SMW1566-SMW1567-SMW1568-SMW1569-SMW1570-SMW1571-SMW1572-SMW1573-SMW1574-SMW1575-SMW1576-SMW1577-SMW1578-SMW1579-SMW1



14 February 2020

MCC – Milnerton Canoe Club

Date: 14 February 2020

Time: 12h05

Sampler: Craig Greggor

GPS Location: 33°52'53.2"S 18°29'23.0"E

Temperature	24°C
Cloud Cover	40%
Wind	21km/h
Precipitation	None
Low Tide	13:26
High Tide	19:27

Observations and Photographic Records:



TMS – Theo Marais Stormwater Channel

Date: 14 February 2020

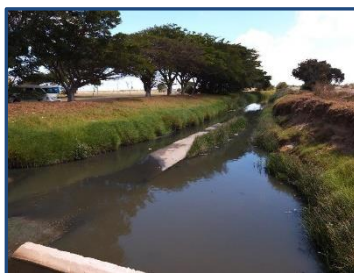
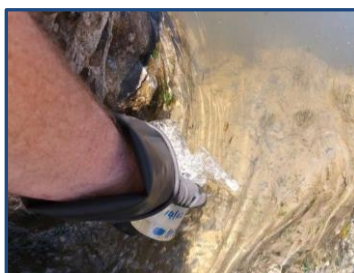
Time: 11h30

Sampler: Craig Greggor

GPS Location: 33°50'52.7"S 18°31'11.8"E

Temperature	23°C
Cloud Cover	50%
Wind	21km/h
Precipitation	None
Low Tide	13:26
High Tide	19:27

Observations and Photographic Records:



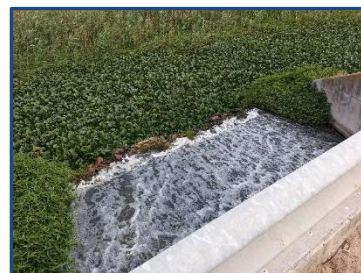
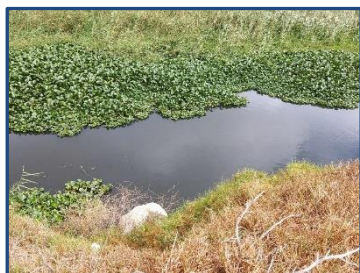


PDB – Potsdam

Date: 14 February 2020
Time: 10h30
Sampler: Craig Greggor
GPS Location: 33°50'36.2"S 18°31'05.9"E

Temperature	21°C
Cloud Cover	95%
Wind	24km/h
Precipitation	None
Low Tide	13:26
High Tide	19:27

Observations and Photographic Records:

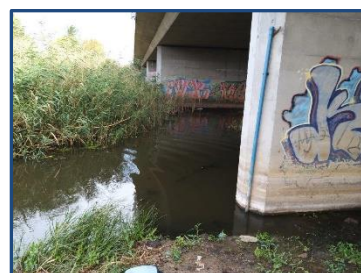
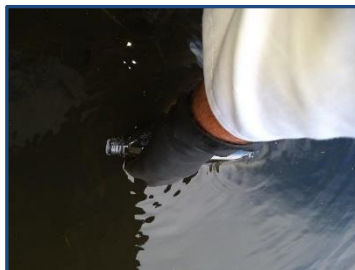


M14 – Under the M14 bridge

Date: 14 February 2020
Time: 11H05
Sampler: Craig Greggor
GPS Location: 33°50'00.7"S 18°31'17.4"E

Temperature	21°C
Cloud Cover	95%
Wind	24km/h
Precipitation	None
Low Tide	13:26
High Tide	19:27

Observations and Photographic Records:





Sample Submission

Date: 14 Feb 2020

Time: 13:12



Makoya Amanzi
Water and Energy

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Oakwood
Pinehurst
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7550

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E-mail: info@makoya.net

Sampling Sheet

Date: 14 Feb 2020 Site Arrival Time: 10:00

PPE (tick the applicable box)

Safety Shoes	☒	Dust Jacket	☒	Overalls	☒	Hardhat	☒
Solar Hat	☒	WP Gloves	☒	Waders	☒	High Viz Vest	☒

Weather Comment:

Temperature	<u>21°C</u>	Wind	<u>24 km/hr</u>
Cloud Cover	<u>95%</u>	Precipitation	<u>None</u>

Sample Details:

Sample Name:	<u>PDB</u>	Sample Name:	<u>M14</u>
Type:	<u>Chemical or Micro</u>	Type:	<u>Chemical or Micro</u>
Time:	<u>10:30</u>	Time:	<u>11:05</u>
Location & Description:	<u>Pors Dam</u>	Location & Description:	<u>M14 Bridge</u>
Location GPS:	<u>Location Sent</u>	Location GPS:	<u>Location Sent</u>
Sampler(s):	<u>Craig Gregor</u>	Sampler(s):	<u>Craig Gregor</u>

Sign-off

Sampler Name: Craig Gregor Observer Name: _____

Sampler Signature: [Signature] Observer Signature: _____

• Sampling area photos
• Sampling point photos
• Sample photos
• Cooler photos

Makoya Amanzi Environmental Solutions CC
Sole Member: C A Gregor

Page 1 of 1
Sampling Sheet - Jan 2020



Makoya Amanzi

Water and Energy

09 Courbonne
Oakwood
Pinehurst
Durbanville
7550

Tel: 010 223 7133
Mobile: 083 642 8822
Fax: 0866 229 121
E-mail: info@makoya.net

09 Courbonne
Oakwood
Pinehurst
Durbanville
7550

Makoya Amanzi
Water and Energy

Sampling Sheet

Date: 14/02/2020 Site Arrival Time: 11:25

PPE (tick the applicable box)

Safety Shoes	☒	Dust Jacket	☒	Overalls	☒	Hardhat	☒
Solar Hat	☒	WP Gloves	☒	Waders	☒	High Viz Vest	☒

Weather Comment: 23°C Wind 21 km/hr
50% Precipitation None

Sample Details:

Sample Name:	<u>TMS</u>	Sample Name:	<u>Chemical or Micro</u>
Type:	<u>Chemical or Micro</u>	Type:	<u>Chemical or Micro</u>
Time:	<u>11:30</u>	Time:	<u>Chemical or Micro</u>
Location & Description:	<u>Thomson's Storm Water</u>	Location & Description:	<u>Chemical or Micro</u>
Location GPS:	<u>P.A. Sant</u>	Location GPS:	<u>Chemical or Micro</u>
Sampler(s):	<u>Craig Gregor</u>	Sampler(s):	<u>Chemical or Micro</u>

• Sampling area photos
• Sampling point photos

Sign-off

Sampler Name: Craig Gregor Observer Name: _____

Sampler Signature: [Signature] Observer Signature: _____

Makoya Amanzi Environmental Solutions CC
Sole Member: C A Gregor

Page 1 of 1
Sampling Sheet - Jan 2020
Company registration #: CK 2005/068724/23
VAT #: 413 0222 054

09 Courbonne
Oakwood
Pinehurst
Durbanville
7550

Makoya Amanzi
Water and Energy

Sampling Sheet

Date: 14 Feb 2020 Site Arrival Time: 11:55

PPE (tick the applicable box)

Safety Shoes	☒	Dust Jacket	☒	Overalls	☒	Hardhat	☒
Solar Hat	☒	WP Gloves	☒	Waders	☒	High Viz Vest	☒

Weather Comment: 24°C Wind 21 km/hr
40% Precipitation None

Sample Details:

Sample Name:	<u>MCC</u>	Sample Name:	<u>Chemical or Micro</u>
Type:	<u>Chemical or Micro</u>	Type:	<u>Chemical or Micro</u>
Time:	<u>12:05</u>	Time:	<u>Chemical or Micro</u>
Location & Description:	<u>Milner's Canal</u>	Location & Description:	<u>Chemical or Micro</u>
Location GPS:	<u>P.A. Sant</u>	Location GPS:	<u>Chemical or Micro</u>
Sampler(s):	<u>Craig Gregor</u>	Sampler(s):	<u>Chemical or Micro</u>

• Sampling area photos
• Sampling point photos

Sign-off

Sampler Name: Craig Gregor Observer Name: _____

Sampler Signature: [Signature] Observer Signature: _____

Makoya Amanzi Environmental Solutions CC
Sole Member: C A Gregor

Page 1 of 1
Sampling Sheet - Jan 2020
Company registration #: CK 2005/068724/23
VAT #: 413 0222 054



Distillery Road
Stellenbosch
Tel: 021-8828666/7
info@vinlab.com
www.vinlab.com
18 February 2020

TEST REPORT
Water



Your partner in quality water analysis

OUTA

Attn: Julius Kleythans
Contact No: 0871700639
318 Oak Avenue
Fendale, Randburg
2140



@VinlabSA

Sample Details			
Sample ID	DW Limit	VB108	
Water Type			
Water Source		River	
Sample Temperature			
Description		TMS Sampled 11:30	
PO Number			
Date Received		14 Feb 2020	
Condition		Good	
Water - Routine			
pH @ 25°C*	mg/L	8.58	
Conductivity @ 25°C*	mg/L	317	
COD*	mg/L	83.5	
Ammonia NH4 as N*	mg/L	0.32	
Nitrate as N*	mg/L	<0.50	
Total suspended solids	mg/L	26.00	
Ammonia NH3 as N	mg/L	0.39	
Date Tested		14 Feb 2020	
Water - Micro			
Fecal Coliforms*	cfu/100 mL	2700	
E. coli*	cfu/100 mL	2600	
Date Tested		14 Feb 2020	
Water - Metals			
Phosphorous P	mg/L	0.68	
Date Tested		14 Feb 2020	
Comment(s)			
Two Samples received.			

Adelize Fourie

Adelize Fourie

Laboratory Manager (Waterlab)
VIN-05-001/002/003/004/005/006/007/008/009/010/011/012/013/014/015/016/017/018/019/020/021/022/023/024/025/026/027/028/029/030/031/032/033/034/035/036/037/038/039/040/041/042/043/044/045/046/047/048/049/050/051/052/053/054/055/056/057/058/059/060/061/062/063/064/065/066/067/068/069/070/071/072/073/074/075/076/077/078/079/080/081/082/083/084/085/086/087/088/089/090/091/092/093/094/095/096/097/098/099/100/101/102/103/104/105/106/107/108/109/110/111/112/113/114/115/116/117/118/119/120/121/122/123/124/125/126/127/128/129/130/131/132/133/134/135/136/137/138/139/140/141/142/143/144/145/146/147/148/149/150/151/152/153/154/155/156/157/158/159/160/161/162/163/164/165/166/167/168/169/170/171/172/173/174/175/176/177/178/179/180/181/182/183/184/185/186/187/188/189/190/191/192/193/194/195/196/197/198/199/200/201/202/203/204/205/206/207/208/209/210/211/212/213/214/215/216/217/218/219/220/221/222/223/224/225/226/227/228/229/230/231/232/233/234/235/236/237/238/239/240/241/242/243/244/245/246/247/248/249/250/251/252/253/254/255/256/257/258/259/260/261/262/263/264/265/266/267/268/269/270/271/272/273/274/275/276/277/278/279/280/281/282/283/284/285/286/287/288/289/290/291/292/293/294/295/296/297/298/299/300/301/302/303/304/305/306/307/308/309/310/311/312/313/314/315/316/317/318/319/320/321/322/323/324/325/326/327/328/329/330/331/332/333/334/335/336/337/338/339/340/341/342/343/344/345/346/347/348/349/350/351/352/353/354/355/356/357/358/359/360/361/362/363/364/365/366/367/368/369/370/371/372/373/374/375/376/377/378/379/380/381/382/383/384/385/386/387/388/389/390/391/392/393/394/395/396/397/398/399/400/401/402/403/404/405/406/407/408/409/410/411/412/413/414/415/416/417/418/419/420/421/422/423/424/425/426/427/428/429/430/431/432/433/434/435/436/437/438/439/440/441/442/443/444/445/446/447/448/449/450/451/452/453/454/455/456/457/458/459/460/461/462/463/464/465/466/467/468/469/470/471/472/473/474/475/476/477/478/479/480/481/482/483/484/485/486/487/488/489/490/491/492/493/494/495/496/497/498/499/500/501/502/503/504/505/506/507/508/509/510/511/512/513/514/515/516/517/518/519/520/521/522/523/524/525/526/527/528/529/530/531/532/533/534/535/536/537/538/539/540/541/542/543/544/545/546/547/548/549/550/551/552/553/554/555/556/557/558/559/560/561/562/563/564/565/566/567/568/569/570/571/572/573/574/575/576/577/578/579/580/581/582/583/584/585/586/587/588/589/590/591/592/593/594/595/596/597/598/599/600/601/602/603/604/605/606/607/608/609/610/611/612/613/614/615/616/617/618/619/620/621/622/623/624/625/626/627/628/629/630/631/632/633/634/635/636/637/638/639/640/641/642/643/644/645/646/647/648/649/650/651/652/653/654/655/656/657/658/659/660/661/662/663/664/665/666/667/668/669/670/671/672/673/674/675/676/677/678/679/680/681/682/683/684/685/686/687/688/689/690/691/692/693/694/695/696/697/698/699/700/701/702/703/704/705/706/707/708/709/710/711/712/713/714/715/716/717/718/719/720/721/722/723/724/725/726/727/728/729/730/731/732/733/734/735/736/737/738/739/740/741/742/743/744/745/746/747/748/749/750/751/752/753/754/755/756/757/758/759/760/761/762/763/764/765/766/767/768/769/770/771/772/773/774/775/776/777/778/779/780/781/782/783/784/785/786/787/788/789/790/791/792/793/794/795/796/797/798/799/800/801/802/803/804/805/806/807/808/809/810/811/812/813/814/815/816/817/818/819/820/821/822/823/824/825/826/827/828/829/830/831/832/833/834/835/836/837/838/839/840/841/842/843/844/845/846/847/848/849/850/851/852/853/854/855/856/857/858/859/860/861/862/863/864/865/866/867/868/869/870/871/872/873/874/875/876/877/878/879/880/881/882/883/884/885/886/887/888/889/890/891/892/893/894/895/896/897/898/899/900/901/902/903/904/905/906/907/908/909/910/911/912/913/914/915/916/917/918/919/920/921/922/923/924/925/926/927/928/929/930/931/932/933/934/935/936/937/938/939/940/941/942/943/944/945/946/947/948/949/950/951/952/953/954/955/956/957/958/959/960/961/962/963/964/965/966/967/968/969/970/971/972/973/974/975/976/977/978/979/980/981/982/983/984/985/986/987/988/989/990/991/992/993/994/995/996/997/998/999/1000/1001/1002/1003/1004/1005/1006/1007/1008/1009/1010/1011/1012/1013/1014/1015/1016/1017/1018/1019/1020/1021/1022/1023/1024/1025/1026/1027/1028/1029/1030/1031/1032/1033/1034/1035/1036/1037/1038/1039/1040/1041/1042/1043/1044/1045/1046/1047/1048/1049/1050/1051/1052/1053/1054/1055/1056/1057/1058/1059/1060/1061/1062/1063/1064/1065/1066/1067/1068/1069/1070/1071/1072/1073/1074/1075/1076/1077/1078/1079/1080/1081/1082/1083/1084/1085/1086/1087/1088/1089/1090/1091/1092/1093/1094/1095/1096/1097/1098/1099/1100/1101/1102/1103/1104/1105/1106/1107/1108/1109/1110/1111/1112/1113/1114/1115/1116/1117/1118/1119/1120/1121/1122/1123/1124/1125/1126/1127/1128/1129/1130/1131/1132/1133/1134/1135/1136/1137/1138/1139/1140/1141/1142/1143/1144/1145/1146/1147/1148/1149/1150/1151/1152/1153/1154/1155/1156/1157/1158/1159/1160/1161/1162/1163/1164/1165/1166/1167/1168/1169/1170/1171/1172/1173/1174/1175/1176/1177/1178/1179/1180/1181/1182/1183/1184/1185/1186/1187/1188/1189/1190/1191/1192/1193/1194/1195/1196/1197/1198/11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99/2200/2201/2202/2203/2204/2205/2206/2207/2208/2209/2210/2211/2212/2213/2214/2215/2216/2217/2218/2219/2220/2221/2222/2223/2224/2225/2226/2227/2228/2229/2230/2231/2232/2233/2234/2235/2236/2237/2238/2239/2240/2241/2242/2243/2244/2245/2246/2247/2248/2249/2250/2251/2252/2253/2254/2255/2256/2257/2258/2259/2260/2261/2262/2263/2264/2265/2266/2267/2268/2269/2270/2271/2272/2273/2274/2275/2276/2277/2278/2279/2280/2281/2282/2283/2284/2285/2286/2287/2288/2289/2290/2291/2292/2293/2294/2295/2296/2297/2298/2299/2300/2301/2302/2303/2304/2305/2306/2307/2308/2309/2310/2311/2312/2313/2314/2315/2316/2317/2318/2319/2320/2321/2322/2323/2324/2325/2326/2327/2328/2329/2330/2331/2332/2333/2334/2335/2336/2337/



Tel: 010 223 7133
Mobile: 083 642 8822
Fax: 0866 229 121
E-mail: info@makoya.net



TEST REPORT

Water

OUTA

Attn: Julius Kleynhans
Contact No: 0871700639
318 Oak Avenue
Ferndale, Randburg
2160

Distillery Road
Stellenbosch
Tel: 021-8828866/7
info@vinlab.com
www.vinlab.com
18 Feb 2020

TEST REPORT

Water

OUTA

Attn: Julius Kleynhans
Contact No: 0871700639
318 Oak Avenue
Ferndale, Randburg
2160



Sample Details				
Sample ID	DW Limit	W8110		
Water Type				
Water Source			River	
Sample Temperature				
Description			M14 Sampled	
			11:05	
PO Number				
Date Received			14/02/2020	
Condition			Good	
			Water - Routine	
pH @ 25°C	VIN-05-MW01		7.66	
Conductivity @ 25°C	VIN-05-MW02		297	
COD*	VIN-05-MW03		110	
Ammonia NH4 as N*	VIN-05-MW08		7.92	
Nitrate as N*	VIN-05-MW08		<0.50	
Total suspended solids			27.00	
Ammonia NH3 as N			9.63	
Date Tested			14/02/2020	
			Water - Micro	
Fecal Coliforms*	VIN-05-MW07		300	
FColi*	VIN-05-MW07		200	
Date Tested			14/02/2020	
			Water - Metals	
Phosphorous P			7.89	
Date Tested			14/02/2020	
			Comment(s)	
Comment to 8110 - 2019 Samples received				

Affaire

Adelize Fourie

Adelize Fournie
Laboratory Manager (Waterlab)
EN-55-M01, M02, M03, M04, M05, M06, M10, M12, M43, M45, M46, M47, M48, M49, M50, M51, M52, M53, M54, M55, M56, M57, M58, M59, M60, M61, M62, M63, M64, M65, M66, M67, M68, M69, M70, M71, M72, M73, M74, M75, M76, M77, M78, M79, M80, M81, M82, M83, M84, M85, M86, M87, M88, M89, M90, M91, M92, M93, M94, M95, M96, M97, M98, M99, M100, M101, M102, M103, M104, M105, M106, M107, M108, M109, M110, M111, M112, M113, M114, M115, M116, M117, M118, M119, M120, M121, M122, M123, M124, M125, M126, M127, M128, M129, M130, M131, M132, M133, M134, M135, M136, M137, M138, M139, M140, M141, M142, M143, M144, M145, M146, M147, M148, M149, M150, M151, M152, M153, M154, M155, M156, M157, M158, M159, M160, M161, M162, M163, M164, M165, M166, M167, M168, M169, M170, M171, M172, M173, M174, M175, M176, M177, M178, M179, M180, M181, M182, M183, M184, M185, M186, M187, M188, M189, M190, M191, M192, M193, M194, M195, M196, M197, M198, M199, M200, M201, M202, M203, M204, M205, M206, M207, M208, M209, M210, M211, M212, M213, M214, M215, M216, M217, M218, M219, M220, M221, M222, M223, M224, M225, M226, M227, M228, M229, M230, M231, M232, M233, M234, M235, M236, M237, M238, M239, M240, M241, M242, M243, M244, M245, M246, M247, M248, M249, M250, M251, M252, M253, M254, M255, M256, M257, M258, M259, M260, M261, M262, M263, M264, M265, M266, M267, M268, M269, M270, M271, M272, M273, M274, M275, M276, M277, M278, M279, M280, M281, M282, M283, M284, M285, M286, M287, M288, M289, M290, M291, M292, M293, M294, M295, M296, M297, M298, M299, M300, M301, M302, M303, M304, M305, M306, M307, M308, M309, M310, M311, M312, M313, M314, M315, M316, M317, M318, M319, M320, M321, M322, M323, M324, M325, M326, M327, M328, M329, M330, M331, M332, M333, M334, M335, M336, M337, M338, M339, M340, M341, M342, M343, M344, M345, M346, M347, M348, M349, M350, M351, M352, M353, M354, M355, M356, M357, M358, M359, M360, M361, M362, M363, M364, M365, M366, M367, M368, M369, M370, M371, M372, M373, M374, M375, M376, M377, M378, M379, M380, M381, M382, M383, M384, M385, M386, M387, M388, M389, M390, M391, M392, M393, M394, M395, M396, M397, M398, M399, M400, M401, M402, M403, M404, M405, M406, M407, M408, M409, M410, M411, M412, M413, M414, M415, M416, M417, M418, M419, M420, M421, M422, M423, M424, M425, M426, M427, M428, M429, M430, M431, M432, M433, M434, M435, M436, M437, M438, M439, M440, M441, M442, M443, M444, M445, M446, M447, M448, M449, M450, M451, M452, M453, M454, M455, M456, M457, M458, M459, M460, M461, M462, M463, M464, M465, M466, M467, M468, M469, M470, M471, M472, M473, M474, M475, M476, M477, M478, M479, M480, M481, M482, M483, M484, M485, M486, M487, M488, M489, M490, M491, M492, M493, M494, M495, M496, M497, M498, M499, M500, M501, M502, M503, M504, M505, M506, M507, M508, M509, M510, M511, M512, M513, M514, M515, M516, M517, M518, M519, M520, M521, M522, M523, M524, M525, M526, M527, M528, M529, M530, M531, M532, M533, M534, M535, M536, M537, M538, M539, M540, M541, M542, M543, M544, M545, M546, M547, M548, M549, M550, M551, M552, M553, M554, M555, M556, M557, M558, M559, M560, M561, M562, M563, M564, M565, M566, M567, M568, M569, M570, M571, M572, M573, M574, M575, M576, M577, M578, M579, M580, M581, M582, M583, M584, M585, M586, M587, M588, M589, M590, M591, M592, M593, M594, M595, M596, M597, M598, M599, M600, M601, M602, M603, M604, M605, M606, M607, M608, M609, M610, M611, M612, M613, M614, M615, M616, M617, M618, M619, M620, M621, M622, M623, M624, M625, M626, M627, M628, M629, M630, M631, M632, M633, M634, M635, M636, M637, M638, M639, M640, M641, M642, M643, M644, M645, M646, M647, M648, M649, M650, M651, M652, M653, M654, M655, M656, M657, M658, M659, M660, M661, M662, M663, M664, M665, M666, M667, M668, M669, M670, M671, M672, M673, M674, M675, M676, M677, M678, M679, M680, M681, M682, M683, M684, M685, M686, M687, M688, M689, M690, M691, M692, M693, M694, M695, M696, M697, M698, M699, M700, M701, M702, M703, M704, M705, M706, M707, M708, M709, M710, M711, M712, M713, M714, M715, M716, M717, M718, M719, M720, M721, M722, M723, M724, M725, M726, M727, M728, M729, M730, M731, M732, M733, M734, M735, M736, M737, M738, M739, M740, M741, M742, M743, M744, M745, M746, M747, M748, M749, M750, M751, M752, M753, M754, M755, M756, M757, M758, M759, M760, M761, M762, M763, M764, M765, M766, M767, M768, M769, M770, M771, M772, M773, M774, M775, M776, M777, M778, M779, M780, M781, M782, M783, M784, M785, M786, M787, M788, M789, M790, M791, M792, M793, M794, M795, M796, M797, M798, M799, M800, M801, M802, M803, M804, M805, M806, M807, M808, M809, M810, M811, M812, M813, M814, M815, M816, M817, M818, M819, M820, M821, M822, M823, M824, M825, M826, M827, M828, M829, M830, M831, M832, M833, M834, M835, M836, M837, M838, M839, M840, M841, M842, M843, M844, M845, M846, M847, M848, M849, M850, M851, M852, M853, M854, M855, M856, M857, M858, M859, M860, M861, M862, M8

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Doc No: V18839

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Affaire

Adelize Fourie

Academia
Laboratory Manager (Waterlab)
M43, M4V01, M4V02, M4V03, M4V04, M4V05, M4V06, M4V07, M4V08, M4V09, M4V10, M4V11, M4V12, M4V13, M4V14, M4V15, M4V16, M4V17, M4V18, M4V19, M4V20, M4V21, M4V22, M4V23, M4V24, M4V25, M4V26, M4V27, M4V28, M4V29, M4V30, M4V31, M4V32, M4V33, M4V34, M4V35, M4V36, M4V37, M4V38, M4V39, M4V40, M4V41, M4V42, M4V43, M4V44, M4V45, M4V46, M4V47, M4V48, M4V49, M4V50, M4V51, M4V52, M4V53, M4V54, M4V55, M4V56, M4V57, M4V58, M4V59, M4V60, M4V61, M4V62, M4V63, M4V64, M4V65, M4V66, M4V67, M4V68, M4V69, M4V70, M4V71, M4V72, M4V73, M4V74, M4V75, M4V76, M4V77, M4V78, M4V79, M4V80, M4V81, M4V82, M4V83, M4V84, M4V85, M4V86, M4V87, M4V88, M4V89, M4V90, M4V91, M4V92, M4V93, M4V94, M4V95, M4V96, M4V97, M4V98, M4V99, M4V100, M4V101, M4V102, M4V103, M4V104, M4V105, M4V106, M4V107, M4V108, M4V109, M4V110, M4V111, M4V112, M4V113, M4V114, M4V115, M4V116, M4V117, M4V118, M4V119, M4V120, M4V121, M4V122, M4V123, M4V124, M4V125, M4V126, M4V127, M4V128, M4V129, M4V130, M4V131, M4V132, M4V133, M4V134, M4V135, M4V136, M4V137, M4V138, M4V139, M4V140, M4V141, M4V142, M4V143, M4V144, M4V145, M4V146, M4V147, M4V148, M4V149, M4V150, M4V151, M4V152, M4V153, M4V154, M4V155, M4V156, M4V157, M4V158, M4V159, M4V160, M4V161, M4V162, M4V163, M4V164, M4V165, M4V166, M4V167, M4V168, M4V169, M4V170, M4V171, M4V172, M4V173, M4V174, M4V175, M4V176, M4V177, M4V178, M4V179, M4V180, M4V181, M4V182, M4V183, M4V184, M4V185, M4V186, M4V187, M4V188, M4V189, M4V190, M4V191, M4V192, M4V193, M4V194, M4V195, M4V196, M4V197, M4V198, M4V199, M4V200, M4V201, M4V202, M4V203, M4V204, M4V205, M4V206, M4V207, M4V208, M4V209, M4V210, M4V211, M4V212, M4V213, M4V214, M4V215, M4V216, M4V217, M4V218, M4V219, M4V220, M4V221, M4V222, M4V223, M4V224, M4V225, M4V226, M4V227, M4V228, M4V229, M4V230, M4V231, M4V232, M4V233, M4V234, M4V235, M4V236, M4V237, M4V238, M4V239, M4V240, M4V241, M4V242, M4V243, M4V244, M4V245, M4V246, M4V247, M4V248, M4V249, M4V250, M4V251, M4V252, M4V253, M4V254, M4V255, M4V256, M4V257, M4V258, M4V259, M4V260, M4V261, M4V262, M4V263, M4V264, M4V265, M4V266, M4V267, M4V268, M4V269, M4V270, M4V271, M4V272, M4V273, M4V274, M4V275, M4V276, M4V277, M4V278, M4V279, M4V280, M4V281, M4V282, M4V283, M4V284, M4V285, M4V286, M4V287, M4V288, M4V289, M4V290, M4V291, M4V292, M4V293, M4V294, M4V295, M4V296, M4V297, M4V298, M4V299, M4V300, M4V301, M4V302, M4V303, M4V304, M4V305, M4V306, M4V307, M4V308, M4V309, M4V310, M4V311, M4V312, M4V313, M4V314, M4V315, M4V316, M4V317, M4V318, M4V319, M4V320, M4V321, M4V322, M4V323, M4V324, M4V325, M4V326, M4V327, M4V328, M4V329, M4V330, M4V331, M4V332, M4V333, M4V334, M4V335, M4V336, M4V337, M4V338, M4V339, M4V340, M4V341, M4V342, M4V343, M4V344, M4V345, M4V346, M4V347, M4V348, M4V349, M4V350, M4V351, M4V352, M4V353, M4V354, M4V355, M4V356, M4V357, M4V358, M4V359, M4V360, M4V361, M4V362, M4V363, M4V364, M4V365, M4V366, M4V367, M4V368, M4V369, M4V370, M4V371, M4V372, M4V373, M4V374, M4V375, M4V376, M4V377, M4V378, M4V379, M4V380, M4V381, M4V382, M4V383, M4V384, M4V385, M4V386, M4V387, M4V388, M4V389, M4V390, M4V391, M4V392, M4V393, M4V394, M4V395, M4V396, M4V397, M4V398, M4V399, M4V400, M4V401, M4V402, M4V403, M4V404, M4V405, M4V406, M4V407, M4V408, M4V409, M4V410, M4V411, M4V412, M4V413, M4V414, M4V415, M4V416, M4V417, M4V418, M4V419, M4V420, M4V421, M4V422, M4V423, M4V424, M4V425, M4V426, M4V427, M4V428, M4V429, M4V430, M4V431, M4V432, M4V433, M4V434, M4V435, M4V436, M4V437, M4V438, M4V439, M4V440, M4V441, M4V442, M4V443, M4V444, M4V445, M4V446, M4V447, M4V448, M4V449, M4V450, M4V451, M4V452, M4V453, M4V454, M4V455, M4V456, M4V457, M4V458, M4V459, M4V460, M4V461, M4V462, M4V463, M4V464, M4V465, M4V466, M4V467, M4V468, M4V469, M4V470, M4V471, M4V472, M4V473, M4V474, M4V475, M4V476, M4V477, M4V478, M4V479, M4V480, M4V481, M4V482, M4V483, M4V484, M4V485, M4V486, M4V487, M4V488, M4V489, M4V490, M4V491, M4V492, M4V493, M4V494, M4V495, M4V496, M4V497, M4V498, M4V499, M4V500, M4V501, M4V502, M4V503, M4V504, M4V505, M4V506, M4V507, M4V508, M4V509, M4V510, M4V511, M4V512, M4V513, M4V514, M4V515, M4V516, M4V517, M4V518, M4V519, M4V520, M4V521, M4V522, M4V523, M4V524, M4V525, M4V526, M4V527, M4V528, M4V529, M4V530, M4V531, M4V532, M4V533, M4V534, M4V535, M4V536, M4V537, M4V538, M4V539, M4V540, M4V541, M4V542, M4V543, M4V544, M4V545, M4V546, M4V547, M4V548, M4V549, M4V550, M4V551, M4V552, M4V553, M4V554, M4V555, M4V556, M4V557, M4V558, M4V559, M4V560, M4V561, M4V562, M4V563, M4V564, M4V565, M4V566, M4V567, M4V568, M4V569, M4V570, M4V571, M4V572, M4V573, M4V574, M4V575, M4V576, M4V577, M4V578, M4V579, M4V580, M4V581, M4V582, M4V583, M4V584, M4V585, M4V586, M4V587, M4V588, M4V589, M4V590, M4V591, M4V592, M4V593, M4V594, M4V595, M4V596

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Doc No: V18841



26 February 2020

MCC – Milnerton Canoe Club

Date: 26 February 2020

Time: 12h55

Sampler: Craig Greggor

GPS Location: 33°52'53.2"S 18°29'23.0"E

Temperature	27°C
Cloud Cover	None
Wind	26km/h
Precipitation	None
Low Tide	11:00
High Tide	17:05

Observations and Photographic Records:



TMS – Theo Marais Stormwater Channel

Date: 26 February 2020

Time: 12h25

Sampler: Craig Greggor

GPS Location:

33°50'52.7"S 18°31'11.8"E

Temperature	24°C
Cloud Cover	10%
Wind	26km/h
Precipitation	None
Low Tide	11:00
High Tide	17:05

Observations and Photographic Records:





PDB – Potsdam

Date: 26 February 2020
Time: 11h00
Sampler: Craig Greggor
GPS Location:
33°50'36.2"S 18°31'05.9"E

Temperature	24°C
Cloud Cover	50%
Wind	26km/h
Precipitation	None
Low Tide	11:00
High Tide	17:05

Observations and Photographic Records:



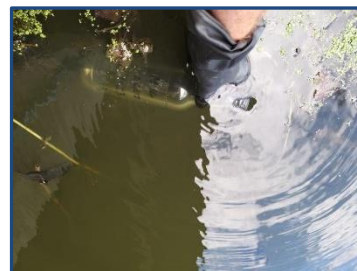
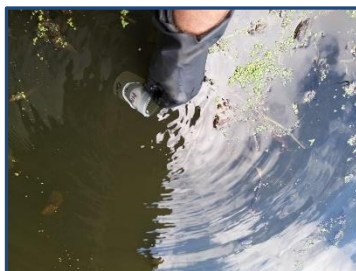


M14 – Under the M14 bridge

Date: 26 February 2020
Time: 11H58
Sampler: Craig Greggor
GPS Location:
33°50'00.7"S 18°31'17.4"E

Temperature	24°C
Cloud Cover	50%
Wind	26km/h
Precipitation	None
Low Tide	11:00
High Tide	17:05

Observations and Photographic Records:



PDA – Pots Dam A

Date: 26 February 2020
Time: 11H28
Sampler: Craig Greggor
GPS Location: 33°50'31.5"S 18°31'08.9"E

Temperature	24°C
Cloud Cover	50%
Wind	26km/h
Precipitation	None
Low Tide	11:00
High Tide	17:05

Observations and Photographic Records:





Sample Submission

Date: 26 Feb 2020

Time: 13:55



Makoya Amanzi
Water and Energy

09 Courbonne
Oakwood
Pinehurst
Durbanville
7550

Tel: 010 223 7133
Mobile: 083 642 8822
Fax: 0866 229 121
E-mail: info@makoya.net

Sampling Sheet

Date: 26 Feb 2020 Site Arrival Time: 12:44

PPE (tick the applicable box)

Safety Shoes	☒	Dust Jacket	☒	Overalls	☐	Hardhat	☐
Solar Hat	☐	WP Gloves	☒	Waders	☐	High Viz Vest	☐

Weather Comment:

Temperature	<u>24°C</u>	Wind	<u>26 km/hr</u>
Cloud Cover	<u>None</u>	Precipitation	<u>None</u>

Sample Details:

Sample Name:	<u>MCC</u>	Sample Name:	<u>Chemical or Micro</u>
Type:	<u>Chemical or Micro</u>	Type:	<u>Chemical or Micro</u>
Time:	<u>12:55</u>	Time:	<u>Chemical or Micro</u>
Location & Description:	<u>M. Inerton Caroo Club</u>	Location & Description:	<u>Chemical or Micro</u>
Location GPS:	<u>P. In Sont</u>	Location GPS:	<u>Chemical or Micro</u>
Sampler(s):	<u>Craig G-reggor</u>	Sampler(s):	<u>Chemical or Micro</u>

Sign-off

Sampler Name: Craig G-reggor Observer Name: _____

Sampler Signature: [Signature] Observer Signature: _____

Checklist:

- ☐ Sampling area photos
- ☐ Sampling point photos
- ☐ Sample photos
- ☐ Cooler photos

Footer:

Makoya Amanzi Environmental Solutions CC
Sole Member: C A Greggor

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Sampling Sheet - Jun 2020
Company registration #: CK 2005/068724/23
VAT #: 413 0222 054



09 Courbonne
Oakwood
Pinehurst
Durbanville
7550

Makoya Amanzi
Water and Energy

Sampling Sheet

Date: 26 Feb 2020 Site Arrival Time: 10:30

PPE (tick the applicable box)

Safety Shoes	☒	Dust Jacket	☒	Overalls	☐	Hardhat	☐
Solar Hat	☐	WP Gloves	☒	Waders	☐	High Viz Vest	☐

Weather Comment:

Temperature	<u>24°C</u>	Wind	<u>26 km/hr</u>
Cloud Cover	<u>50%</u>	Precipitation	<u>None</u>

Sample Details:

Sample Name:	<u>PDB</u>	Sample Name:	<u>DDA</u>
Type:	<u>Chemical + Micro</u>	Type:	<u>Chemical + Micro</u>
Time:	<u>11:00</u>	Time:	<u>11:28</u>
Location & Description:	<u>Port's Dam After Discharge</u>	Location & Description:	<u>Port's Dam W. Discharge</u>
Location GPS:	<u>P.A. Sent</u>	Location GPS:	<u>P.A. Sent</u>
Sampler(s):	<u>Craig Gregor</u>	Sampler(s):	<u>Craig Gregor</u>

Sample Name:	<u>M14</u>	Sample Name:	<u>Chemical or Micro</u>
Type:	<u>Chemical + Micro</u>	Type:	<u>Chemical or Micro</u>
Time:	<u>11:58</u>	Time:	<u>11:58</u>
Location & Description:	<u>Under H14 Buckets</u>	Location & Description:	<u>Under H14 Buckets</u>
Location GPS:	<u>P.A. Sent</u>	Location GPS:	<u>P.A. Sent</u>
Sampler(s):	<u>Craig Gregor</u>	Sampler(s):	<u>Craig Gregor</u>

• Sampling area photos
• Sampling point photos

Sign-off

Sampler Name: Craig Gregor Observer Name: _____

Sampler Signature: [Signature] Observer Signature: _____

Company registration #: CK 2005/068724/23
VAT #: 413 0222 054

Page 1 of 1
Sampling Sheet - Jan 2020
Sole Member: C A Gregor

09 Courbonne
Oakwood
Pinehurst
Durbanville
7550

Makoya Amanzi
Water and Energy

Sampling Sheet

Date: 26 Feb 2020 Site Arrival Time: 12:19

PPE (tick the applicable box)

Safety Shoes	☒	Dust Jacket	☒	Overalls	☒	Hardhat	☐
Solar Hat	☐	WP Gloves	☒	Waders	☐	High Viz Vest	☐

Weather Comment:

Temperature	<u>24°C</u>	Wind	<u>26 km/hr</u>
Cloud Cover	<u>10%</u>	Precipitation	<u>None</u>

Sample Details:

Sample Name:	<u>TMS</u>	Sample Name:	<u>Chemical or Micro</u>
Type:	<u>Chemical + Micro</u>	Type:	<u>Chemical or Micro</u>
Time:	<u>12:25</u>	Time:	<u>12:25</u>
Location & Description:	<u>Three Marais Special Stream Water</u>	Location & Description:	<u>Three Marais Special Stream Water</u>
Location GPS:	<u>P.A. Sent</u>	Location GPS:	<u>P.A. Sent</u>
Sampler(s):	<u>Craig Gregor</u>	Sampler(s):	<u>Craig Gregor</u>

Sample Name:	<u>Chemical or Micro</u>	Sample Name:	<u>Chemical or Micro</u>
Type:	<u>Chemical or Micro</u>	Type:	<u>Chemical or Micro</u>
Time:	<u>12:25</u>	Time:	<u>12:25</u>
Location & Description:	<u>Three Marais Special Stream Water</u>	Location & Description:	<u>Three Marais Special Stream Water</u>
Location GPS:	<u>P.A. Sent</u>	Location GPS:	<u>P.A. Sent</u>
Sampler(s):	<u>Craig Gregor</u>	Sampler(s):	<u>Craig Gregor</u>

• Sampling area photos
• Sampling point photos

Sign-off

Sampler Name: Craig Gregor Observer Name: _____

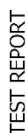
Sampler Signature: [Signature] Observer Signature: _____

Company registration #: CK 2005/068724/23
VAT #: 413 0222 054

Page 1 of 1
Sampling Sheet - Jan 2020
Sole Member: C A Gregor



Tel: 010 223 7133
Mobile: 083 642 8822
Fax: 0866 229 121
E-mail: info@makova.net



Water

OUTA

Attn: - Julius

18 Oak Avenue
Fermale, Randburg
160



@VinlabSA

SampleID		Sample Details					
		DW Limit	W6382	W6383	W6384	W6385	W6386
Water Type			Not indicated	Not indicated	Not indicated	Not indicated	Not indicated
Water Source							
Sample Temperature							
Description							
PO Number							
Date Received							
Condition							
Water - Routine							
pH@25°C (Water)	VIN-05-MM01		7.82	8.11	7.40	9.37	7.37
Conductivity@25C (Water)	VIN-05-MM02	mS/m	1328	249	163.9	297	165.8
COD (Water)	VIN-05-MM03	mg/L	326	88.9	87.2	57.6	260
Ammonia (NH4) is N* (Water)	VIN-05-MM05	mg/L	22.81	15.85	30.36	<0.15	30.05
Nitrate as N* (Water)	VIN-05-MM08	mg/L	<0.50	<0.50	<0.50	<0.50	<0.50
Total suspended solids (Water)		mg/L	21.00	27.00	41.00	6.00	225.00
Ammonia (NH3) is N (Water)		mg/L	27.73	19.03	36.91	0.16	36.54
Date Tested			2020-02-26	2020-02-26	2020-02-26	2020-02-26	2020-02-26
Water - Metals							
Phosphorous (P) - Water		mg/L	6.64 (2020-02-27)	6.60	6.85	0.70	5.08
Date Tested			2020-02-26	2020-02-26	2020-02-26	2020-02-26	2020-02-26

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Accessories methods. Vitabio is not suitable as any agent for any type of damage or injury. It is not suitable as any agent for any type of damage or injury. It is not suitable as any agent for any type of damage or injury.

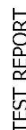
WIN 09-01 10-02-20

Doc No
V19182

Visit Vinlab H2O



T0885



Water

OUTA

Attn: - Julius

18 Oak Avenue
Ferndale, Randburg
160



@VinlabSA

		Water - Micro					
Fecal Coliforms* (Water)	cfu/100 mL	VIN-05- MW07	5700	500	62000	7100	52000
E. Coli* (Water)	cfu/100 mL	VIN-05- MW07	4700	200	57000	2400	49000
Date Tested			2020-02-26	2020-02-26	2020-02-26	2020-02-26	2020-02-26

Comments
W6382 Two Samples received,
W6383 Two Samples received,
W6384 Two Samples received,
W6385 Two Samples received,
W6386 Two Samples received,

Affaire

Adelize Fourie
Laboratory Manager (Waterlab)

Test results relate only to the items tested as received. This Document shall not be reproduced without the written approval of Vialka (Pty) Ltd. Cautions and interpretations expressed herein are the sole property of Vialka (Pty) Ltd.

[illegible]

JIN 09:01 10-02-20

Doc No
J19187

Visit Vinlab H2O



T0885



13 March 2020

MCC – Milnerton Canoe Club

Date: 13 March 2020
Time: 08h46
Sampler: Craig Greggor

GPS Location: 33°52'53.2"S 18°29'23.0"E

Temperature	17°C
Cloud Cover	Light 80%
Wind	0-5 km/h
Precipitation	None
Low Tide	12:05
High Tide	18:12

Observations and Photographic Records:

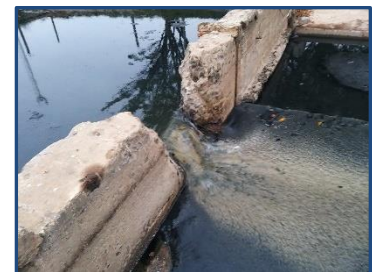


TMS – Theo Marais Stormwater Channel

Date: 13 March 2020
T.O
Time: 06h40
Sampler: Craig Greggor
GPS Location:
33°50'52.7"S 18°31'11.8"E

Temperature	15°C
Cloud Cover	Misty
Wind	3-5 km/h
Precipitation	None
Low Tide	12:05
High Tide	18:12

Observations and Photographic Records:





PDB – Potsdam

Date: 13 March 2020
Time: 07h38
Sampler: Craig Greggor
GPS Location:
33°50'36.2"S 18°31'05.9"E

Temperature	16°C
Cloud Cover	Light 50%
Wind	3-5 km/h
Precipitation	None
Low Tide	12:05
High Tide	18:12

Observations and Photographic Records:

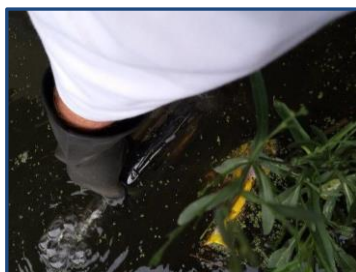


M14 – Under the M14 bridge

Date: 13 March 2020
Time: 08h05
Sampler: Craig Greggor
GPS Location:
33°50'00.7"S 18°31'17.4"E

Temperature	16°C
Cloud Cover	Light 50%
Wind	3-5 km/h
Precipitation	None
Low Tide	12:05
High Tide	18:12

Observations and Photographic Records:



PDA – Pots Dam A

Date: 13 March 2020
Time: 07h47
Sampler: Craig Greggor
GPS Location: 33°50'31.5"S 18°31'08.9"E

Temperature	16°C
Cloud Cover	Light 50%
Wind	3-5 km/h
Precipitation	None
Low Tide	12:05
High Tide	18:12



Observations and Photographic Records:



Sample Submission

Date: 13 March 2020

Time: 09h47





Distillery Road
Stellenbosch
Tel 021-8828866/7
info@vinlab.com
www.vinlab.com
2020-03-17

TEST REPORT

Water



OUTA

Attn: Julius

318 Oak Avenue
Fermale, Randburg
2160



@VinlabSA

Sample Details		W8754	W8755	W8756	W8757	W8758
Sample ID						
Water Type		Not indicated	Not indicated	Not indicated	Not indicated	Not indicated
Water Source						
Sample Temperature						
Description		TMS 06:45	M14 08:05	PTA 07:46	PDB 07:37	MCC
PO Number						
Date Received		2020-03-13	2020-03-13	2020-03-13	2020-03-13	2020-03-13
Condition		Good	Good	Good	Good	Good
Water - Routine						
pH @ 25°C (Water)	VIN-05-MW01	7.55	7.51	7.27	7.38	7.25
Conductivity @ 25°C (Water)	inS/m	VIN-05-MW02	372	260	162.3	777
COD _{Mn} (Water)	mg/L	VIN-05-MW03	60.4	78.2	88.6	218
Ammonia (NH ₃) as N (Water)	mg/L	VIN-05-MW08	2.53	11.67	33.27	31.56
Nitrate as N ^o (Water)	mg/L	VIN-05-MW08	<0.50	<0.50	<0.50	<0.50
Total suspended solids (Water)	mg/L		13.00	18.00	41.00	34.00
Ammonia (NH ₃) as N (Water)	mg/L		3.08	14.19	40.45	38.37
Date Tested		2020-03-13	2020-03-13	2020-03-13	2020-03-13	2020-03-13
Water - Metals						
Phosphorus (P) - Water	mg/L		1.30	7.20	10.75	6.10
Date Tested		2020-03-13	2020-03-13	2020-03-13	2020-03-13	2020-03-13
Water - Micro						
Fecal Coliforms (Water)	cfu/100mL	VIN-05-MW07	34000	800	68000	54000
E-Coli (Water)	cfu/100mL	VIN-05-MW07	31000	800	64000	71 000
Date Tested		2020-03-13	2020-03-13	2020-03-13	2020-03-13	2020-03-13
Comments						
W8754	Two Samples received, Headspace.					
W8755	Two Samples received.					
W8756	Two Samples received.					
W8757	Two Samples received, first bottle = Headspace					

Please click [here](#) for SANAS 241:1/2015 drinking water limits

Test results relate only to the items tested as received. This Document shall not be reproduced without the written approval of Vinlab (Pty) Ltd. Opinions and interpretations expressed herein are the sole property of Vinlab (Pty) Ltd. and are based on CQ values, a positive result (detected) indicates a CQ value <35 and a negative result (non-detected) indicates a CQ value of >35.

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VIN 09-01 10-02-20

Doc No
V19511

Visit Vinlab H2O



T0885

Distillery Road
Stellenbosch
Tel 021-8828866/7
info@vinlab.com
www.vinlab.com
2020-03-16

TEST REPORT

Water



OUTA

Attn: Julius

318 Oak Avenue
Fermale, Randburg
2160



@VinlabSA

Sample Details		W8759
Sample ID		
Water Type		Not indicated
Water Source		
Sample Temperature		
Description		PTA CL
PO Number		
Date Received		2020-03-13
Condition		Good
Water - Routine		
Fecal Coliforms (Water)	mg/L	<0.02
Date Tested		2020-03-13

Affairie

Adelize Fourie
Laboratory Manager (Waterlab)

Vinlab (Pty) Ltd
318 Oak Avenue
Fermale, Randburg
2160

Please click [here](#) for SANAS 241:1/2015 drinking water limits

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VIN 09-01 10-02-20

Doc No
V19483

Visit Vinlab H2O



T0885



09 Courbonne
Oakwood
Pinehurst
Durbanville
7550



Sampling Sheet

Date: 13/03/2020 Site Arrival Time: 08:38

PPE (tick the applicable box)

Safety Shoes	☒	Dust Jacket	☒	Overalls	☒	Hardhat	☒
Solar Hat	☒	WP Gloves	☒	Waders	☒	High Viz Vest	☒

Weather Comment:

Temperature	<u>17°C</u>	Wind	<u>0-5 km/hr</u>
Cloud Cover	<u>Light 80%</u>	Precipitation	<u>None</u>

Sample Details:

Sample Name:	<u>MCC</u>
Type:	<u>Chemical & Micro</u>
Time:	<u>08:45</u>
Location & Description:	<u>M. Norton</u>
Location GPS:	<u>Grass Club</u>
Sampler(s):	<u>Pin dent</u>

Sample Name:	<u>Chemical or Micro</u>
Type:	<u>Chemical or Micro</u>
Time:	<u>Chemical or Micro</u>
Location & Description:	<u>Chemical or Micro</u>
Location GPS:	<u>Chemical or Micro</u>
Sampler(s):	<u>Chemical or Micro</u>

Sample Name:	<u>Chemical or Micro</u>
Type:	<u>Chemical or Micro</u>
Time:	<u>Chemical or Micro</u>
Location & Description:	<u>Chemical or Micro</u>
Location GPS:	<u>Chemical or Micro</u>
Sampler(s):	<u>Chemical or Micro</u>

Sample Name:	<u>Chemical or Micro</u>
Type:	<u>Chemical or Micro</u>
Time:	<u>Chemical or Micro</u>
Location & Description:	<u>Chemical or Micro</u>
Location GPS:	<u>Chemical or Micro</u>
Sampler(s):	<u>Chemical or Micro</u>

- Sampling area photos
- Sampling point photos

- Sample photos
- Cooler photos

Sign-off

Sampler Name: Craig Gregory Observer Name: _____

Sampler Signature: [Signature] Observer Signature: _____



Makoya Amanzi

Water and Energy

09 Courbonne
Oakwood
Pinehurst
Durbanville
7550

Tel: 010 223 7133
Mobile: 083 642 8822
Fax: 0866 229 121
E-mail: info@makoya.net



09 Courbonne
Oakwood
Pinehurst
Durbanville
7550

Sampling Sheet

Date: 13/03/2020 Site Arrival Time: 07:15

PPE (tick the applicable box)

Safety Shoes	☒	Dust Jacket	☒	Overalls	☒	Hardhat	☒
Solar Hat	☒	WP Gloves	☒	Waders	☒	High Viz Vest	☒

Weather Comment:

Temperature	16°C	Wind	3-5 km/h
Cloud Cover	Light 50%	Precipitation	None

Sample Details:

Sample Name:	PDB	Sample Name:	PDA C1
Type:	Chem + Micro	Type:	Chem + Micro
Time:		Time:	
Location & Description:	Pine forest Pots clam after rain	Location & Description:	Pots clam discharge
Location GPS:		Location GPS:	Pine forest
Sampler(s):	Craig Gregor	Sampler(s):	Craig Gregor

Sample Name:	PDA	Sample Name:	M14
Type:	Chem + Micro	Type:	Chem + Micro
Time:		Time:	
Location & Description:	Pine forest Pots clam before discharge	Location & Description:	Under M14 Bridge
Location GPS:		Location GPS:	Pine forest
Sampler(s):	Craig Gregor	Sampler(s):	Craig Gregor

- Sampling area photos
- Sampling point photos
- Sample photos
- Cooler photos

Sign-off

Sampler Name: Craig Gregor Observer Name: Donald Simpson

Sampler Signature: [Signature] Observer Signature: [Signature]

Makoya Amanzi Environmental Solutions CC
Sole Member: C A Gregor
Page 1 of 1
Sampling Sheet - Jan 2020
Company registration #: CK 2005/068724/23
VAT #: 413 0222 054



09 Courbonne
Oakwood
Pinehurst
Durbanville
7550

Sampling Sheet

Date: 13/03/2020 Site Arrival Time: 06:33

PPE (tick the applicable box)

Safety Shoes	☒	Dust Jacket	☒	Overalls	☒	Hardhat	☒
Solar Hat	☒	WP Gloves	☒	Waders	☒	High Viz Vest	☒

Weather Comment:

Temperature	15°C	Wind	3-5 km/h
Cloud Cover	Misty	Precipitation	None

Sample Details:

Sample Name:	TMS	Sample Name:	Chemical or Micro
Type:	Chemical or Micro	Type:	Chemical or Micro
Time:	06:40	Time:	
Location & Description:	Thco Mvoti Spent stream	Location & Description:	
Location GPS:	Pine forest	Location GPS:	
Sampler(s):	Craig Gregor	Sampler(s):	

Sample Name:	Chemical or Micro	Sample Name:	Chemical or Micro
Type:	Chemical or Micro	Type:	Chemical or Micro
Time:		Time:	
Location & Description:		Location & Description:	
Location GPS:		Location GPS:	
Sampler(s):		Sampler(s):	

- Sampling area photos
- Sampling point photos
- Sample photos
- Cooler photos

Sign-off

Sampler Name: Craig Gregor Observer Name:

Sampler Signature: [Signature] Observer Signature:

Makoya Amanzi Environmental Solutions CC
Sole Member: C A Gregor
Page 1 of 1
Sampling Sheet - Jan 2020
Company registration #: CK 2005/068724/23
VAT #: 413 0222 054



08 April 2020

MCC – Milnerton Canoe Club

Date: 08 April 2020
Time: 11h20
Sampler: Craig Greggor

GPS Location: 33°52'53.2"S 18°29'23.0"E

Temperature	22°C
Cloud Cover	None
Wind	7 km/h SE
Precipitation	None
Low Tide	09:41
High Tide	15:48

Observations and Photographic Records:



TMS – Theo Marais Stormwater Channel

Date: 08 April 2020
Time: 10h50
Sampler: Craig Greggor
GPS Location: 33°50'52.7"S 18°31'11.8"E

Temperature	20°C
Cloud Cover	2%
Wind	9 km/h
Precipitation	None
Low Tide	09:41
High Tide	15:48

Observations and Photographic Records:



PD – Free Chlorine

Date: 08 April 2020
Time: 10h00
Sampler: Craig Greggor
GPS Location: 33°50'45.3"S 18°31'03.9"E

Temperature	18°C
Cloud Cover	1%
Wind	11 km/h
Precipitation	None
Low Tide	09:41
High Tide	15:48



Observations and Photographic Records:



PDC –

Date: 08 April 2020
Time: 10h00
Sampler: Craig Greggor
GPS Location: 33°50'45.3"S 18°31'03.9"E

Temperature	18°C
Cloud Cover	1%
Wind	11 km/h
Precipitation	None
Low Tide	09:41
High Tide	15:48

Observations and Photographic Records:



M14 – Under the M14 bridge

Date: 08 April 2020
Time: 10h30
Sampler: Craig Greggor
GPS Location: 33°50'00.7"S 18°31'17.4"E

Temperature	18°C
Cloud Cover	1%
Wind	11km/h
Precipitation	None
Low Tide	09:41
High Tide	15:48

Observations and Photographic Records:





PDD

Date: 08 April 2020
Time: 11h00
Sampler: Craig Greggor
GPS Location: 33°50'46.8"S 18°30'57.7"E

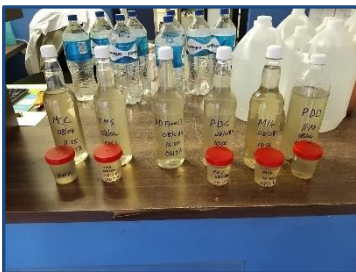
Temperature	20°C
Cloud Cover	2%
Wind	9 km/h
Precipitation	None
Low Tide	09:41
High Tide	15:48

Observations and Photographic Records:



Sample Submission

Date: 08 April 2020
Time: 13:06





T0417

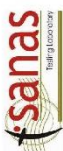
Integral Laboratories (Pty) Ltd
No 1 Zandvlei Park, Sandvlei Close, Pease, 7546
Tel: 021 683 1238 Fax: 086 593 8974
Email: westmcap@integral.co.za

Certificate of Analysis

Company: Makoya Amanzi
Address: 09 Courbonne
Oakwood
Pinehurst
Durbanville
7550
Contact: Nadine Pogeleer

Service Request Number: PM-2020-24262
Date of Certificate: 21-April-2020
Date Completed: 21-April-2020
Date of Sampling: 08-April-2020
Date of Receipt at Lab: 08-April-2020

Sample Identification:		Sample Condition:		Room Temperature		Remarks:	
Sample Number:	PM-20-48974	Method	Unit	Result	Analyse Date	Unit	Analyse Date
Microbiological Parameters							
E. coli (MP)	M10	d/u/100mL		31000	2020-04-09		2020-04-09
Faecal Coliforme	M19	d/u/100mL		21000	2020-04-09		2020-04-09
Physical / Acoustic Parameters							
Electrical Conductivity @ 25 °C	M4	mS/m		1708	2020-04-14		2020-04-14
pH @ 25 °C	M8	pH units		7.23	2020-04-14		2020-04-14
Total Suspended Solids	M8	mg/L		16.4	2020-04-21		2020-04-21
Chemistry (Micro) Parameters							
Ammonia (NH ₃ -N)	M44	mg/L		21.6	2020-04-14		2020-04-14
Nitrate as N	M44	mg/L		0.11	2020-04-14		2020-04-14
Total Phosphorous as P	M18	mg/L		0.94	2020-04-16		2020-04-16
Organic Parameters							
Chemical Oxygen Demand (Unfiltered)	M2	mg/L		<14.6	2020-04-16		2020-04-16



T0417

Integral Laboratories (Pty) Ltd
No 1 Zandvlei Park, Sandvlei Close, Pease, 7546
Tel: 021 683 1238 Fax: 086 593 8974
Email: westmcap@integral.co.za

Certificate of Analysis

Company: Makoya Amanzi
Address: 09 Courbonne
Oakwood
Pinehurst
Durbanville
7550
Contact: Nadine Pogeleer

Service Request Number: PM-2020-24262
Date of Certificate: 21-April-2020
Date Completed: 21-April-2020
Date of Sampling: 08-April-2020
Date of Receipt at Lab: 08-April-2020

Sample Identification:		Sample Condition:		Room Temperature		Remarks:	
Sample Number:	PM-20-48976	Method	Unit	Result	Analyse Date	Unit	Analyse Date
Microbiological Parameters							
E. coli (MP)	M10	d/u/100mL		143000	2020-04-09		2020-04-09
Faecal Coliforme	M19	d/u/100mL		87000	2020-04-09		2020-04-09
Physical / Acoustic Parameters							
Electrical Conductivity @ 25 °C	M4	mS/m		270	2020-04-14		2020-04-14
pH @ 25 °C	M8	pH units		7.05	2020-04-14		2020-04-14
Total Suspended Solids	M8	mg/L		13.6	2020-04-21		2020-04-21
Chemistry (Micro) Parameters							
Ammonia (NH ₃ -N)	M44	mg/L		2.20	2020-04-14		2020-04-14
Nitrate as N	M44	mg/L		3.08	2020-04-14		2020-04-14
Total Phosphorous as P	M18	mg/L		0.95	2020-04-16		2020-04-16
Organic Parameters							
Chemical Oxygen Demand (Unfiltered)	M2	mg/L		18.0	2020-04-16		2020-04-16



Integral Laboratories (Pty) Ltd
No 1 Zandvlei Park, Sandvlei, Durbanville, Cape Town, 7550
Tel: 021 683 1238 Fax: 086 593 8974
Email: westmcap@integral.co.za

T0417

Certificate of Analysis

Company:	Makoya Amanzi	Service Request Number:	PMV-20-48978
Address:	09 Courbonne	Date of Certificate:	21-April-2020
	Old Wood	Date Completed:	21-April-2020
	Pinehurst	Date of Sampling:	08-April-2020
	Durbanville	Date of Reanalysis at Lab:	08-April-2020
	7550		
Contact:	Nadine Pogeleer		
Sample Identification:	PMV-20-48978	Sample Condition:	PD Free CL
Sample Number:		Room Temperature:	
Chemistry (Micro) Parameters		Method	M/S
Total Chlorine*		Unit	mg/L
		Result	<0.2
		Analyse Date	2020-04-20

Integral Laboratories (Pty) Ltd
No 1 Zandvlei Park, Sandvlei, Durbanville, Cape Town, 7550
Tel: 021 683 1238 Fax: 086 593 8974
Email: westmcap@integral.co.za

T0417

Certificate of Analysis

Company:	Makoya Amanzi	Service Request Number:	PMV-20-48977
Address:	09 Courbonne	Date of Certificate:	21-April-2020
	Old Wood	Date Completed:	21-April-2020
	Pinehurst	Date of Sampling:	08-April-2020
	Durbanville	Date of Reanalysis at Lab:	08-April-2020
	7550		
Contact:	Nadine Pogeleer		
Sample Identification:	PMV-20-48977	Sample Condition:	PDCC
Sample Number:		Room Temperature:	
Microbiological Parameters		Method	Unit
E. coli (MP)		M10	d/100mL
Faecal Coliforms		M19	d/100mL
Physical / Aesthetic Parameters		Method	Unit
Electrical Conductivity @ 25 °C		M1	ms/cm
pH @ 25 °C		M6	pH units
Total Suspended Solids		M8	mg/L
Chemistry (Micro) Parameters		Method	Unit
Ammonia (NH3-N)		M44	mg/L
Nitrate as N		M44	mg/L
Total Phosphorus as P		M18	mg/L
Organic Parameters		Method	Unit
Chemical Oxygen Demand (Unfiltered)		M2	mg/L
		Result	16.0
		Analyse Date	2020-04-16



Integral Laboratories (Pty) Ltd
No 1 Zandvlei Park, Sandvlei, Durbanville, 7550
Tel: 021 683 1238 Fax: 086 650 8974
Email: westmcap@integral.co.za

T0417

Certificate of Analysis

Company: Makoya Amanzi
Address: 09 Courbonne, Oakwood, Pinehurst, Durbanville, 7550
Contact: Nadine Pogeleer

Service Request Number: PMV-20-44979
Date of Certificate: 21-April-2020
Date Completed: 21-April-2020
Date of Sampling: 08-April-2020
Date of Receipt at Lab: 08-April-2020

Sample Identification:		Sample Condition:		Room Temperature		Remarks:	
Sample Number:	PMV-20-44979	Method:	Unit:	Result:	Analyte Data	Sample Number:	PMV-20-44979
Microbiological Parameters							
E. coli (MP)	M10	d/u/100mL		18000	2020-04-09	E. coli (MP)	M10
Faecal Coliform	M19	d/u/100mL		18000	2020-04-09	Faecal Coliform	M19
Physical / Acoustic Parameters							
Electrical Conductivity @ 25 °C	M4	mS/m		176	2020-04-14	Electrical Conductivity @ 25 °C	M4
pH @ 25 °C	M6	pH units		7.08	2020-04-14	pH @ 25 °C	M6
Total Suspended Solids	M8	mg/L		17.2	2020-04-21	Total Suspended Solids	M8
Chemistry (Micro) Parameters							
Ammonia (NH3-N)	M44	mg/L		40.2	2020-04-14	Ammonia (NH3-N)	M44
Nitrate as N	M44	mg/L		<0.10	2020-04-14	Nitrate as N	M44
Total Phosphorus as P	M18	mg/L		8.64	2020-04-16	Total Phosphorus as P	M18
Organic Parameters							
Chemical Oxygen Demand (Unfiltered)	M2	mg/L		88.0	2020-04-16	Chemical Oxygen Demand (Unfiltered)	M2

T0417

Certificate of Analysis

Company: Makoya Amanzi
Address: 09 Courbonne, Oakwood, Pinehurst, Durbanville, 7550
Contact: Nadine Pogeleer

Service Request Number: PMV-20-44978
Date of Certificate: 21-April-2020
Date Completed: 21-April-2020
Date of Sampling: 08-April-2020
Date of Receipt at Lab: 08-April-2020

Sample Identification:		Sample Condition:		Room Temperature		Remarks:	
Sample Number:	PMV-20-44978	Method:	Unit:	Result:	Analyte Data	Sample Number:	PMV-20-44978
Microbiological Parameters							
E. coli (MP)	M10	d/u/100mL		20000	2020-04-09	E. coli (MP)	M10
Faecal Coliform	M19	d/u/100mL		17000	2020-04-09	Faecal Coliform	M19
Physical / Acoustic Parameters							
Electrical Conductivity @ 25 °C	M4	mS/m		216	2020-04-14	Electrical Conductivity @ 25 °C	M4
pH @ 25 °C	M6	pH units		7.89	2020-04-14	pH @ 25 °C	M6
Total Suspended Solids	M8	mg/L		10.4	2020-04-21	Total Suspended Solids	M8
Chemistry (Micro) Parameters							
Ammonia (NH3-N)	M44	mg/L		20.5	2020-04-14	Ammonia (NH3-N)	M44
Nitrate as N	M44	mg/L		<0.10	2020-04-14	Nitrate as N	M44
Total Phosphorus as P	M18	mg/L		7.76	2020-04-16	Total Phosphorus as P	M18
Organic Parameters							
Chemical Oxygen Demand (Unfiltered)	M2	mg/L		<14.6	2020-04-16	Chemical Oxygen Demand (Unfiltered)	M2



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E-mail: info@makoya.net



Sampling Sheet

Date: 8 APRIL 2020 Site Arrival Time: 10:50

PPE (tick the applicable box)

Safety Shoes	☒	Dust Jacket	☒	Overalls	☐	Hardhat	☐
Solar Hat	☐	WP Gloves	☐	Waders	☐	High Viz Vest	☒

Weather Comment:

Temperature	<u>20°C</u>	Wind	<u>9 km SE</u>
Cloud Cover	<u>2%</u>	Precipitation	<u>0</u>

Sample Details:

1. Sample Name:	<u>TMS</u>	2. Sample Name:	<u>PDF PDD</u>
Type:	<u>CHEMICAL MICRO</u>	Type:	<u>CHEMICAL MICRO</u>
Time:	<u>10:50</u>	Time:	<u>11:00</u>
Location & Description:	<u>TMS IMPAV</u>	Location & Description:	<u>TMS IMPAV</u>
Location GPS:	<u>PIN SENT</u>	Location GPS:	<u>PIN SENT</u>
Sampler(s):	<u>C. GREGG</u>	Sampler(s):	<u>C. GREGG</u>

Sample Name:	<u>CHEMICAL MICRO</u>	Sample Name:	<u>CHEMICAL MICRO</u>
Type:	<u>CHEMICAL MICRO</u>	Type:	<u>CHEMICAL MICRO</u>
Time:	<u>10:50</u>	Time:	<u>11:00</u>
Location & Description:	<u>TMS IMPAV</u>	Location & Description:	<u>TMS IMPAV</u>
Location GPS:	<u>PIN SENT</u>	Location GPS:	<u>PIN SENT</u>
Sampler(s):	<u>C. GREGG</u>	Sampler(s):	<u>C. GREGG</u>

- Sampling area photos
- Sampling point photos

Sign-off

Sampler Name: Craig Gregor Observer Name: _____

Sampler Signature: _____ Observer Signature: _____

Makoya Amanzi Environmental Solutions CC
Sole Member: C A Gregor
Page 1 of 1
Sampling Sheet - Jan 2020
Company registration #: CK 2005/068724/23
VAT #: 413 0222 054

09 Courbonne
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E-mail: info@makoya.net



Sampling Sheet

Date: 8 APRIL 2020 Site Arrival Time: 09:30

PPE (tick the applicable box)

Safety Shoes	☒	Dust Jacket	☒	Overalls	☐	Hardhat	☐
Solar Hat	☐	WP Gloves	☐	Waders	☐	High Viz Vest	☒

Weather Comment:

Temperature	<u>18°C</u>	Wind	<u>11 km/h SE</u>
Cloud Cover	<u>1%</u>	Precipitation	<u>0</u>

Sample Details:

1. Sample Name:	<u>PDC</u>	2. Sample Name:	<u>PDC C1</u>
Type:	<u>CHEMICAL MICRO</u>	Type:	<u>CHEMICAL MICRO</u>
Time:	<u>10:00</u>	Time:	<u>10:00</u>
Location & Description:	<u>PDC IMPAV</u>	Location & Description:	<u>PDC IMPAV</u>
Location GPS:	<u>PIN SENT</u>	Location GPS:	<u>PIN SENT</u>
Sampler(s):	<u>C. GREGG</u>	Sampler(s):	<u>C. GREGG</u>

Sample Name:	<u>PDC</u>	Sample Name:	<u>CHEMICAL MICRO</u>
Type:	<u>CHEMICAL MICRO</u>	Type:	<u>CHEMICAL MICRO</u>
Time:	<u>10:30</u>	Time:	<u>10:30</u>
Location & Description:	<u>PDC IMPAV</u>	Location & Description:	<u>PDC IMPAV</u>
Location GPS:	<u>PIN SENT</u>	Location GPS:	<u>PIN SENT</u>
Sampler(s):	<u>C. GREGG</u>	Sampler(s):	<u>C. GREGG</u>

- Sampling area photos
- Sampling point photos

Sign-off

Sampler Name: Craig Gregor Observer Name: _____

Sampler Signature: _____ Observer Signature: _____

Makoya Amanzi Environmental Solutions CC
Sole Member: C A Gregor
Page 1 of 1
Sampling Sheet - Jan 2020
Company registration #: CK 2005/068724/23
VAT #: 413 0222 054



Makoya Amanzi
Water and Energy

09 Courbonne
Oakwood
Pinehurst
Durbanville
7550

Tel: 010 223 7133
Mobile: 083 642 8822
Fax: 0866 229 121
E-mail: info@makoya.net

Sampling Sheet

Date: 8 April 2020 Site Arrival Time: 11:20

PPE (tick the applicable box)

Safety Shoes	☒	Dust Jacket	☒	Overalls	☐	Hardhat	☐
Solar Hat	☐	WP Gloves	☐	Waders	☐	High Viz Vest	☒

Weather Comment:

Temperature	<u>22° C</u>	Wind	<u>7 km/h SE</u>
Cloud Cover	<u>0</u>	Precipitation	<u>0</u>

Sample Details:

Sample Name:	<u>MCC</u>
Type:	<u>Chemical - Micro</u>
Time:	<u>11:20</u>
Location & Description:	<u>MILNERTON CANOE CLUB</u>
Location GPS:	<u>PN</u>
Sampler(s):	<u>C. GREGGOR</u>

Sample Name:	<u>Chemical or Micro</u>
Type:	<u>Chemical or Micro</u>
Time:	
Location & Description:	
Location GPS:	
Sampler(s):	

• Sample area photos
• Sampling point photos

Sign-off

Sampler Name: Craig Greggor Observer Name: _____

Sampler Signature: [Signature] Observer Signature: _____

• Sample photos
• Cooler photos

Page 1 of 1
Company registration #: CK 2005/068724/23
VAT #: 413 0222 054
Sole Member: C A Greggor
Sampling Sheet - Jan 2020

21 April 2020

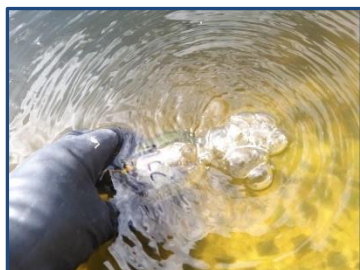
MCC – Milnerton Canoe Club

Date: 21 April 2020
Time: 12h20
Sampler: Craig Greggor

GPS Location: 33°52'53.2"S 18°29'23.0"E

Temperature	19°C
Cloud Cover	10%
Wind	11km/h SW
Precipitation	None
Low Tide	08:47
High Tide	14:53

Observations and Photographic Records:



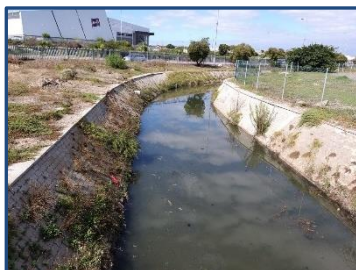
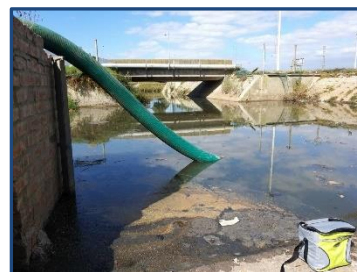
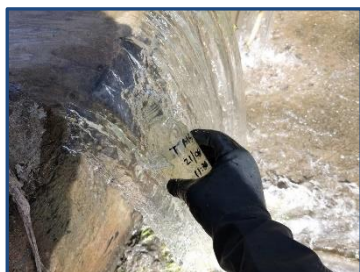


TMS – Theo Marais Stormwater Channel

Date: 21 April 2020
Time: 11h36
Sampler: Craig Greggor
GPS Location:
33°50'52.7"S 18°31'11.8"E

Temperature	19°C
Cloud Cover	10%
Wind	11km/h
Precipitation	None
Low Tide	08:47
High Tide	14:53

Observations and Photographic Records:



PD – Free Chlorine

Date: 21 April 2020
Time: 10h50
Sampler: Craig Greggor
GPS Location: 33°50'45.3"S 18°31'03.9"E

Temperature	19°C
Cloud Cover	10%
Wind	7 km/h
Precipitation	None
Low Tide	08:47
High Tide	14:53

Observations and Photographic Records:



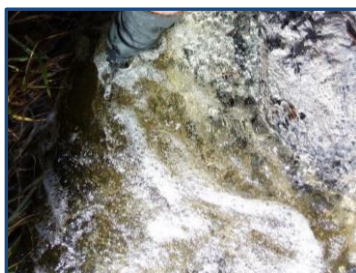


PDC – Discharge

Date: 21 April 2020
Time: 10h50
Sampler: Craig Greggor
GPS Location: 33°50'45.3"S 18°31'03.9"E

Temperature	19°C
Cloud Cover	10%
Wind	7 km/h
Precipitation	None
Low Tide	08:47
High Tide	14:53

Observations and Photographic Records:

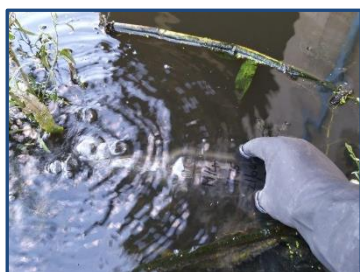


M14 – Under the M14 bridge

Date: 21 April 2020
Time: 11:15
Sampler: Craig Greggor
GPS Location:
33°50'00.7"S 18°31'17.4"E

Temperature	19°C
Cloud Cover	10%
Wind	7 km/h
Precipitation	None
Low Tide	08:47
High Tide	14:53

Observations and Photographic Records:





PDD -

Date: 21 April 2020
Time: 11h45
Sampler: Craig Greggor
GPS Location: 33°50'46.8"S 18°30'57.7"E

Temperature	19°C
Cloud Cover	10%
Wind	11 km/h
Precipitation	None
Low Tide	08:47
High Tide	14:53

Observations and Photographic Records:



Sample Submission

Date: 21 April 2020
Time: 12:55





09 Courbonne
Oakwood
Pinehurst
Durbanville
7550



Sampling Sheet

Date: 21/04/2020 Site Arrival Time: 10:45

PPE (tick the applicable box)

Safety Shoes	☒	Dust Jacket	☐	Overalls	☐	Hardhat	☐
Solar Hat	☐	WP Gloves	☒	Waders	☐	High Viz Vest	☒

Weather Comment:

Temperature	<u>19°C</u>	Wind	<u>7 km/h NW</u>
Cloud Cover	<u>10%</u>	Precipitation	<u>0</u>

Sample Details:

Sample Name:	<u>POTSDAM MICROBIAL</u>	Sample Name:	<u>M14</u>
Type:	<u>CHEM + MICRO</u>	Type:	<u>CHEM + MICRO</u>
Time:	<u>10:50</u>	Time:	<u>11:15</u>
Location & Description:		Location & Description:	
Location GPS:	<u>PIN</u>	Location GPS:	<u>PIN</u>
Sampler(s):	<u>C. GREGG</u>	Sampler(s):	<u>C. GREGG</u>

Sample Name:	<u>POTSDAM MICROBIAL</u>	Sample Name:	
Type:	<u>CHEM + MICRO</u>	Type:	<u>Chemical or Micro</u>
Time:		Time:	
Location & Description:		Location & Description:	
Location GPS:		Location GPS:	
Sampler(s):	<u>C. GREGG</u>	Sampler(s):	

- Sampling area photos
- Sampling point photos

Sign-off

Sampler Name: _____ Observer Name: _____

Sampler Signature: _____ Observer Signature: _____

Makoya Amanzi Environmental Solutions CC
Sole Member: C A Gregor

Page 1 of 1
Company registration #: CK 2005/068724/23
VAT #: 413 0222 054

Sampling Sheet - Jan 2020

09 Courbonne
Oakwood
Pinehurst
Durbanville
7550



Sampling Sheet

Date: 21/04/2020 Site Arrival Time: 12:05

PPE (tick the applicable box)

Safety Shoes	☒	Dust Jacket	☐	Overalls	☐	Hardhat	☐
Solar Hat	☐	WP Gloves	☒	Waders	☐	High Viz Vest	☒

Weather Comment:

Temperature	<u>19°C</u>	Wind	<u>11 km/h SW</u>
Cloud Cover	<u>10%</u>	Precipitation	<u>0</u>

Sample Details:

Sample Name:	<u>MCC</u>	Sample Name:	
Type:	<u>Chemical or Micro</u>	Type:	<u>Chemical or Micro</u>
Time:	<u>12:10</u>	Time:	
Location & Description:		Location & Description:	
Location GPS:	<u>PIN</u>	Location GPS:	
Sampler(s):	<u>C. GREGG</u>	Sampler(s):	

Sample Name:		Sample Name:	
Type:	<u>Chemical or Micro</u>	Type:	<u>Chemical or Micro</u>
Time:		Time:	
Location & Description:		Location & Description:	
Location GPS:		Location GPS:	
Sampler(s):		Sampler(s):	

- Sampling area photos
- Sampling point photos

Sign-off

Sampler Name: _____ Observer Name: _____

Sampler Signature: _____ Observer Signature: _____

Makoya Amanzi Environmental Solutions CC
Sole Member: C A Gregor

Page 1 of 1
Company registration #: CK 2005/068724/23
VAT #: 413 0222 054

Sampling Sheet - Jan 2020



09 Courbonne
Oakwood
Pinehurst
Durbanville
7550



Sampling Sheet

Date: 21/04/2020 Site Arrival Time: 11:36

PPE (tick the applicable box)

Safety Shoes	☒	Dust Jacket	☒	Overalls	☒	Hardhat	☒
Solar Hat	☒	WP Gloves	☒	Waders	☒	High Viz Vest	☒

Weather Comment:

Temperature	19°C	Wind	11 km SW
Cloud Cover	10%	Precipitation	0

Sample Details:

Sample Name:	TMS	Sample Name:	PDS
Type:	CHROMATOPHORE	Type:	CHROMATOPHORE
Time:	11:36	Time:	11:45
Location & Description:		Location & Description:	
Location GPS:	PN	Location GPS:	PN
Sampler(s):	C. GREGG	Sampler(s):	C. GREGG

Sample Name:		Sample Name:	
Type:	Chemical or Micro	Type:	Chemical or Micro
Time:		Time:	
Location & Description:		Location & Description:	
Location GPS:		Location GPS:	
Sampler(s):		Sampler(s):	

- Sample photos
- Cooler photos

Sign-off

Sampler Name: _____ Observer Name: _____

Sampler Signature: _____ Observer Signature: _____

Company registration: CK 2005/068724/23
VAT # 413 022 054

Page 1 of 1

Sampling Sheet - Jan 2020

Makoya Amanzi Environmental Solutions CC

Sole Member: C A Gregor



T0417

INTEGRAL

LABORATORIES

Integral Laboratories (Pty) Ltd
No. 10000001, 10000002, 10000003, 10000004
Tel: 021 461 1288 Fax: 086 855 8874
Email: info@integral.co.za

Certificate Of Analysis

Company:	Makoya Amanzi	Service Request Number:	PW-2020-24334
Address:	09 Courbonne	Date of Certificate:	04-May-2020
	09 Kwood	Date Completed:	04-May-2020
	Pinehurst	Date of Sampling:	21-April-2020
	Durbanville	Date of Receipt at Lab:	21-April-2020
	7550		
Contact:	Nadine Flegler		
Sample Identification:	PW-20-05172	Sample Condition:	Chilled
Sample Number:		Method:	M10
Microbiological Parameters		Unit:	cfu/100mL
E. coli (MPN)		Result:	48000
Physical / Analytical Parameters		Unit:	
Electrical Conductivity @ 25 °C		Method:	M4
		Unit:	mS/cm
		Result:	256
		Unit:	per units
		Method:	M6
		Unit:	
		Result:	7.51
Chemistry (Macro) Parameters		Unit:	
Ammonia (NH4-N)		Method:	M44
		Unit:	mg/L
		Result:	11.9
Nitrate as N		Method:	M44
		Unit:	mg/L
		Result:	5.14
Orthophosphate as P		Method:	M44
		Unit:	mg/L
		Result:	5.02
Organic Parameters		Unit:	
Chemical Oxygen Demand (Unfiltered)		Method:	M2
		Unit:	mg/L
		Result:	48.0

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info@integral.co.za

Page 1 of 7



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No 1 Zandvlek Park, Sandingham Close Paarl, 7646
Tel: 021 863 1238 Fax 086 635 8874
Email: westerncape@integralabs.co.za

Service Request Number:	PW-2020-24334
Date of Certificate:	04-May-2020
Date Completed:	04-May-2020
Date of Sampling:	21-April-2020
Date of Reanalysis at Lab:	21-April-2020

Sample Identification:			Sample Conditions:		PDC	
Sample Number	PW-20-65173	Chilled	Formic			
Microbiological Parameters	Method	Unit	Unit	Result	Analysis Date	
	M10	cfu/ml/10mL		12300	2020-04-21	
	Method	Unit	Unit	Result	Analysis Date	
Physical / Analytical Parameters	M4	mS/cm @ 25°C		153	2020-04-22	
	M6	pH @ 25°C		7.13	2020-04-22	
	M8	Total Suspended Solids	mg/L	<2.00	2020-04-23	
Chemistry (Macro) Parameters	Method	Unit	Unit	Result	Analysis Date	
	M44	Ammonia (NH3-N)	mg/L	23.6	2020-04-24	
	M44	Chloride as Cl-	mg/L	233	2020-04-24	
	M44	Nitrate as N	mg/L	3.03	2020-04-24	
Organic Parameters	M44	Orthophosphate as P	mg/L	8.08	2020-04-24	
	Method	Unit	Unit	Result	Analysis Date	
	M42				20.0	2020-04-22

Page 2 of 7

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Tel: 021 863 1238 Fax 086 635 8874
Email: westincaps@integralabs.co.za

Certificate Of Analysis

Service Request Number:	PW-2020-24334
Date of Certificate:	04-May-2020
Date Completed:	04-May-2020
Date of Sampling:	21-April-2020
Date of Receipt at Lab:	21-April-2020

Sample Identification:			Sample Conditions:		PDD	
Sample Number	PW 20-85174	Chilies	Remarks			
Microbiological Parameters			Method	Unit	Limit	Result
E. coli (MPN)			M10	cfu/ml/100mL		25000
Physical / Analytical Parameters			Method	Unit	Limit	Result
Electrical Conductivity @ 25 °C			M4	mS/cm		165
pH @ 25 °C			M6	pH units		7.23
Total Suspended Solids			M8	mg/L		<210
Chemistry (Macro) Parameters			Method	Unit	Limit	Result
Ammonia (NH4-N)			M44	mg/L		15.6
Chloride as Cl-			M44	mg/L		268
Nitrate as N			M44	mg/L		0.18
Orthophosphate as P			M44	mg/L		5.71
Organic Parameters			Method	Unit	Limit	Result
VOCs			M2			2500
Total Organic Carbon (TOC)			M2			20.0

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INTEGRAL
LABORATORIES

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Email: wendencap@integralabs.co.za



T0417

Certificate Of Analysis

Service Request Number: PW-2020-24334
Date of Certificate: 04-May-2020
Date Completed: 04-May-2020
Date of Sampling: 21-April-2020
Date of Receipt at Lab: 21-April-2020

Company: Makoya Amanzi
Address: 09 Courbonne
Oakwood
Pinehurst
Durbanville
7550
Contact: Nadine Fogelger

Sample Identification:	Sample Number:	Sample Condition:	Chilled	PD Free	Remark:
Chemistry (Macro) Parameters	PW-20-05176	Method	Unit	Unit	Analyse Date
Total Chlorine*		M15	mg/L		2020-04-28
Free Chlorine*		On Site	mg/L		2020-04-21

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INTEGRAL
LABORATORIES

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T0417

Certificate Of Analysis

Service Request Number: PW-2020-24334
Date of Certificate: 04-May-2020
Date Completed: 04-May-2020
Date of Sampling: 21-April-2020
Date of Receipt at Lab: 21-April-2020

Company: Makoya Amanzi
Address: 09 Courbonne
Oakwood
Pinehurst
Durbanville
7550
Contact: Nadine Fogelger

Sample Identification:	Sample Number:	Sample Condition:	Chilled	TM6	Remark:
Microbiological Parameters	PW-20-05176	Method	Unit	Unit	Analyse Date
E. coli (MPN)		M10	cfu/100mL		2020-04-21
Physical / Analytical Parameters		Method	Unit	Unit	Analyse Date
Electrical Conductivity @ 25 °C		M4	mS/cm		2020-04-22
pH @ 25 °C		M6	pH units		2020-04-22
Chemistry (Macro) Parameters		Method	Unit	Unit	Analyse Date
Ammonia (NH ₃ -N)		M44	mg/L		2020-04-24
Nitrate as N		M44	mg/L		2020-04-24
Orthophosphate as P		M44	mg/L		2020-04-24
Organic Parameters		Method	Unit	Unit	Analyse Date
Chemical Oxygen Demand (Unfiltered)		M2	mg/L		2020-04-22

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T0417

Certificate Of Analysis

Service Request Number: PW-2020-24334
Date of Certificate: 04-May-2020
Date Completed: 04-May-2020
Date of Sampling: 21-April-2020
Date of Receipt at Lab: 21-April-2020

Sample Identification:		Sample Condition:		Remarks:	
Sample Number:	PW-20-05177	Method:	Unit:	Result:	Analyse Date:
Microbiological Parameters					
E. coli (MPN)		M10	cfu/100mL	7700	2020-04-21
Physical / Analytical Parameters					
Electrical Conductivity @ 25°C		M4	µS/cm	1101	2020-04-22
pH @ 25°C		M6	pH units	7.72	2020-04-22
Chemistry (Micro) Parameters					
Ammonia (NH ₃ -N)		M44	mg/L	31.1	2020-04-24
Nitrate as N		M44	mg/L	<10	2020-04-24
Orthophosphate as P		M44	mg/L	7.89	2020-04-24
Organic Parameters					
Chemical Oxygen Demand (Unfiltered)		M2	mg/L	70.0	2020-04-22

Company: Makoya Amanzi
Address: 09 Courbonne
Oakwood
Pinehurst
Durbanville
7550
Contact: Nadine Folger

Service Request Number: PW-2020-24334
Date of Certificate: 04-May-2020
Date Completed: 04-May-2020
Date of Sampling: 21-April-2020
Date of Receipt at Lab: 21-April-2020

Sample Number: PW-20-05177
Method: M10
Unit: cfu/100mL
Result: 7700
Analyse Date: 2020-04-21

06 May 2020

MCC – Milnerton Canoe Club

Date: 06 May 2020
Time: 12h20
Sampler: Craig Gregor

GPS Location: 33°52'53.2"S 18°29'23.0"E

Temperature	
Cloud Cover	1%
Wind	Light
Precipitation	None
Low Tide	08:36
High Tide	14:45

Observations and Photographic Records:





TMS – Theo Marais Stormwater Channel

Date: 06 May 2020
Time: 11h25
Sampler: Craig Greggor
GPS Location:
33°50'52.7"S 18°31'11.8"E

Temperature	23°C
Cloud Cover	1%
Wind	13 km/hr
Precipitation	None
Low Tide	08:36
High Tide	14:45

Observations and Photographic Records:





PD – Free Chlorine

Date: 06 May 2020
Time: 10h10
Sampler: Craig Greggor
GPS Location: 33°50'45.3"S 18°31'03.9"E

Temperature	19°C
Cloud Cover	1%
Wind	11 km/hr
Precipitation	None
Low Tide	08:36
High Tide	14:45

Observations and Photographic Records:



PDC – Discharge

Date: 06 May 2020
Time: 10h10
Sampler: Craig Greggor
GPS Location: 33°50'45.3"S 18°31'03.9"E

Temperature	19°C
Cloud Cover	1%
Wind	11 km/hr
Precipitation	None
Low Tide	08:36
High Tide	14:45

Observations and Photographic Records:

- Reduced flow but still a prominent discharge.





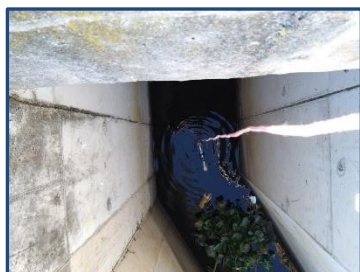
PDA – Discharge

Date: 06 May 2020
Time: 10h30
Sampler: Craig Greggor
GPS Location: 33°50'45.3"S 18°31'03.9"E

Temperature	19°C
Cloud Cover	1%
Wind	11 km/hr
Precipitation	None
Low Tide	08:36
High Tide	14:45

Observations and Photographic Records:

- Relatively low flow, but still a visible discharge.

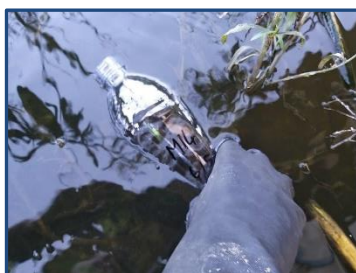
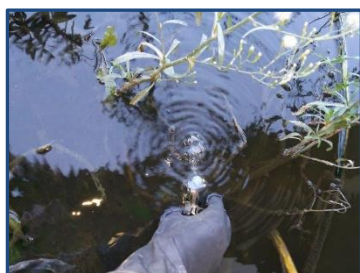


M14 – Under the M14 bridge

Date: 06 May 2020
Time: 11h00
Sampler: Craig Greggor
GPS Location: 33°50'00.7"S 18°31'17.4"E

Temperature	19°C
Cloud Cover	1%
Wind	11 km/hr
Precipitation	None
Low Tide	08:36
High Tide	14:45

Observations and Photographic Records:



PDD - Down Stream

Date: 06 May 2020
Time: 11h46
Sampler: Craig Greggor
GPS Location: 33°50'46.8"S 18°30'57.7"E

Temperature	23°C
Cloud Cover	1%
Wind	13 km/hr
Precipitation	None
Low Tide	08:36
High Tide	14:45

Observations and Photographic Records:

- Very congested with sludge.



Sample Submission

Date: 06 May 2020
Time: 14:20





Tel: 010 223 7133
Mobile: 083 642 8822
Fax: 0866 229 121
E-mail: info@makoya.net

Makoya Amanzi

Water and Energy

09 Courbonne
Oakwood
Pretoria
Durbanville
7550

Tel: 010 223 7133
Mobile: 083 642 8822
Fax: 0866 229 121
E-mail: info@makoya.net

Sampling Sheet

Date: 06 May 2020

Site Arrival Time: 09:40

PPE (tick the applicable box)

Safety Shoes	☒	Dust Jacket		Overalls		Hardhat	
Solar Hat		WP Gloves	☒	Waders		High Viz Vest	☒

Weather Comment:

Temperature	14°C	Wind	11 km/h
Cloud Cover	1%	Precipitation	None

Sample Details:

Sample Name:	PDC + PDE Free
Type:	Chemical + Micro
Time:	10:10
Location & Description:	Potsdam discharge
Location GPS:	Pin 5011
Sampler(s):	Craig Gregor

Sample Name:	M14
Type:	Chemical + Micro
Time:	11:00
Location & Description:	M14 Bridge
Location GPS:	Pin 5011
Sampler(s):	Craig Gregor

- Sampling area photos
- Sampling point photos

Sign-off

Sampler Name: Craig Gregor

Sampler Signature:

Observer Name: _____

Observer Signature: _____

Makoya Amanzi Environmental Solutions CC

Page 1 of 1

Company Registration: OC 305506674/2019
VAT # 413 0223 094

Sampling Sheet - Jan 2020

Site Member: C A Gregor

Makoya Amanzi

Water and Energy

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Pretorius
Durbanville
7550

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Mobile: 083 642 8822
Fax: 0866 229 121
E-mail: info@makoya.net

Sampling Sheet

Date: 11th 06 May 2020

Site Arrival Time: 11:10

PPE (tick the applicable box)

Safety Shoes	☒	Dust Jacket	☐	Overalls	☐	Hardhat	☐
Solar Hat	☐	WP Gloves	☒	Waders	☐	High Viz Vest	☒

Weather Comment:

Temperature	<u>23° C</u>	Wind	<u>13 km/h</u>
Cloud Cover	<u>1%</u>	Precipitation	<u>None</u>

Sample Details:

Sample Name:	<u>TMS</u>
Type:	<u>Chemical + Micro</u>
Time:	<u>11:25</u>
Location & Description:	<u>Theo Marius's storm water</u>
Location GPS:	<u>P.A. Sent</u>
Sampler(s):	<u>Craig Gragg</u>

Sample Name:	<u>PDD</u>
Type:	<u>Chemical + Micro</u>
Time:	<u>11:46</u>
Location & Description:	<u>For Dam clean</u>
Location GPS:	<u>P.A. Sent</u>
Sampler(s):	<u>Craig Gragg</u>

Sample Name:	<u>Chemical or Micro</u>
Type:	<u>Chemical or Micro</u>
Time:	
Location & Description:	
Location GPS:	
Sampler(s):	

Sample Name:	<u>Chemical or Micro</u>
Type:	<u>Chemical or Micro</u>
Time:	
Location & Description:	
Location GPS:	
Sampler(s):	

- Sampling area photos
- Sampling point photos

- Sample photos
- Cooler photos

Sign-off

Sampler Name: _____

Observer Name: _____

Sampler Signature: _____

Observer Signature: _____

Makoya Amanzi Environmental Solutions CC

Sole Member: C A Gragg

Page 1 of 1

Sampling Sheet - Jan 2020

Company Registration: CC 300506672423
VAT # 4170257404



Makoya Amanzi
Water and Energy

09 Courbonne
Oakwood
Pinehurst
Durbanville
7550

Tel: 010 223 7133
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Fax: 0866 229 121
E-mail: info@makoya.net

Sampling Sheet

Date: 6 May 2020 Site Arrival Time: 12:05

PPE (tick the applicable box)

Safety Shoes	☒	Dust Jacket	☒	Overalls	☒	Hardhat	☒
Solar Hat	☒	WP Gloves	☒	Waders	☒	High Viz Vest	☒

Weather Comment:

Temperature		Wind	
Cloud Cover		Precipitation	

Sample Details:

Sample Name:	MCC	Sample Name:	Chemical or Micro
Type:	Chemical or Micro	Type:	Chemical or Micro
Time:	12:20	Time:	
Location & Description:	Makoya Amanzi	Location & Description:	
Location GPS:	Pin Sent	Location GPS:	
Sampler(s):	Craig Gregor	Sampler(s):	

Sign-off

• Sampling area photos
• Sampling point photos

Sampler Name: _____ Observer Name: _____

Sampler Signature: _____ Observer Signature: _____

• Sample photos
• Cooler photos

Page 1 of 1
Makoya Amanzi Environmental Solutions CC
Sole Member: C A Gregor
Sampling Sheet - Jan 2020
Company registration #: CK 2005/068724/23
VAT #: 413 0222 054

Integral Laboratories (Pty) Ltd
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Email: westmca@integralabs.co.za

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T0417

Certificate Of Analysis

Service Request Number: PW20-05444-L2
Date of Certificate: 11-May-2020
Date Completed: 11-May-2020
Date of Sampling: 08-May-2020
Date of Receipt at Lab: 08-May-2020

Company: Makoya Amanzi
Address: 09 Courbonne, Oakwood, Pinehurst, Durbanville, 7550
Contact: Nadine Potgieter

Sample Identification: PW20-05444-L2

Sample Number	Sample Condition	Room Temperature	Unit	Result	Analysis Date
Microbiological Parameters	Method	M10	cfu/100mL	4400	2020-05-07
E. coli (MP)					

Remark: FDC

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Certificate Of Analysis

Company:	Makoya Amanzi	Service Request Number:	PM-2020-2444_L2
Address:	09 Courbonne	Date of Certificate:	11-May-2020
	Ou Kwood	Date Completed:	11-May-2020
	Pinehurst	Date of Sampling:	08-May-2020
	Durbanville	Date of Receipt at Lab:	08-May-2020
	7550		
Contact:	Nadine Potgieter		
Sample Identification:	PDA		
Sample Number:	PM-20-2444_L2	Sample Condition:	Room Temperature
Microbiological Parameters		Method	Unit
E. coli (MP)		M/10	Result
		d/u/100mL	17300
			Analysis Date
			2020-05-07

Certificate Of Analysis

Company:	Makoya Amanzi	Service Request Number:	PM-2020-2444_L2
Address:	09 Courbonne	Date of Certificate:	11-May-2020
	Ou Kwood	Date Completed:	11-May-2020
	Pinehurst	Date of Sampling:	08-May-2020
	Durbanville	Date of Receipt at Lab:	08-May-2020
	7550		
Contact:	Nadine Potgieter		
Sample Identification:	PDA		
Sample Number:	PM-20-2444_L2	Sample Condition:	Room Temperature
Microbiological Parameters		Method	Unit
E. coli (MP)		M/10	Result
		d/u/100mL	25300
			Analysis Date
			2020-05-07



INTEGRAL
LABORATORIES

Integral Laboratories (Pty) Ltd
No 1 Zandvlei Park, Sandringham Close Peasi, 7846
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Email: westmuse@integral.co.za



T0417

Certificate Of Analysis

Company: Makoya Amanzi
Address: 09 Courbonne
Oakwood
Pinehurst
Durbanville
7550
Contact: Nadine Potgieter

Service Request Number: PW20-2444_L2
Date of Certificate: 11-May-2020
Date Completed: 11-May-2020
Date of Sampling: 08-May-2020
Date of Receipt at Lab: 08-May-2020

Sample Identification:		Sample Condition:		Remark:	
Sample Number:	PW20-2444_L2	Room Temperature			
Microbiological Parameters		Method	Unit	Result	Analysis Date
E. coli (MP)		M10	cfu/100mL	110000	2020-05-07



T0417

Certificate Of Analysis

Company: Makoya Amanzi
Address: 09 Courbonne
Oakwood
Pinehurst
Durbanville
7550
Contact: Nadine Potgieter

Service Request Number: PW20-2444_L2
Date of Certificate: 11-May-2020
Date Completed: 11-May-2020
Date of Sampling: 08-May-2020
Date of Receipt at Lab: 08-May-2020

Sample Identification:		Sample Condition:		Remark:	
Sample Number:	PW20-2444_L2	Room Temperature			
Microbiological Parameters		Method	Unit	Result	Analysis Date
E. coli (MP)		M10	cfu/100mL	3850	2020-05-07



T0417

Integral Laboratories (Pty) Ltd
No 1 Zandvlei Park, Sandringham Close, Pease, 7846
Tel: 021 869 1238 Fax: 086 593 8874
Email: westmuse@integral.co.za

Certificate of Analysis

Company:	Makoya Amanzi	Service Request Number:	PM20-0444_02
Address:	09 Courbonne	Date of Certificate:	11-May-2020
	Ou Kwood	Date Completed:	11-May-2020
	Pinehurst	Date of Sampling:	08-May-2020
	Durbanville	Date of Receipt at Lab:	08-May-2020
	7550		
Contact:	Nadine Potgieter		
Sample Identification:	M14		
Sample Number:	PM20-04425_2	Sample Condition:	Room Temperature
Microbiological Parameters		Method	M10
E. coli (MPN)		Unit	d/u/100mL
Result		Unit	420
Analysis Date			2020-05-07



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Tel: 021 869 1238 Fax: 086 593 8874
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Certificate of Analysis

Company:	Makoya Amanzi	Service Request Number:	PM20-0444_L1
Address:	09 Courbonne	Date of Certificate:	18-May-2020
	Ou Kwood	Date Completed:	18-May-2020
	Pinehurst	Date of Sampling:	08-May-2020
	Durbanville	Date of Receipt at Lab:	08-May-2020
	7550		
Contact:	Nadine Potgieter		
Sample Identification:	FDC		
Sample Number:	PM20-04460_1	Sample Condition:	Room Temperature
Physical / Aesthetic Parameters		Method	Unit
Electrical Conductivity @ 25°C	M4		Result
pH @ 25°C	M6	mg/L	219
Total Suspended Solids	M8	pH units	6.90
		mg/L	2.40
Chemistry (Macro) Parameters		Method	Unit
Ammonia (NH4-N)	M44		Result
Chloride as Cl-	M44	mg/L	90.8
Nitrite as N	M44	mg/L	302
Orthophosphate as P	M44	mg/L	<0.10
		mg/L	34.5
Organic Parameters		Method	Unit
Chemical Oxygen Demand (Unfiltered)	M2		Result
		mg/L	133
Analysis Date			2020-05-11
			2020-05-11
			2020-05-11
			2020-05-11
			2020-05-11
			2020-05-12



T0417

Integral Laboratories (Pty) Ltd
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Certificate Of Analysis

Company: Makoya Amanzi
Address: 09 Courbonne
Oakwood
Pinehurst
Durbanville
7550
Contact: Nadine Potgieter

Service Request Number: PW-2020-2444_L1
Date of Certificate: 18-May-2020
Date Completed: 18-May-2020
Date of Sampling: 08-May-2020
Date of Receipt at Lab: 08-May-2020

Sample Identification:		Sample Condition:		Room Temperature		Remark:	
Sample Number:	PW-20-244431_L1	Method		Unit		Result	
Physical / Aesthetic Parameters							
Electrical Conductivity @ 25 °C		Method	M4	Unit	ms/cm	Result	132
pH @ 25 °C		Method	M8	Unit	pH units	Result	7.89
Total Suspended Solids		Method	M8	Unit	mg/L	Result	<2.00
Chemistry (Macro) Parameters							
Ammonia (NH4-N)		Method	M44	Unit	mg/L	Result	5.37
Chloride as Cl-		Method	M44	Unit	mg/L	Result	216
Nitrite as N		Method	M44	Unit	mg/L	Result	<0.10
Orthophosphate as P		Method	M44	Unit	mg/L	Result	4.71
Organic Parameters							
Chemical Oxygen Demand (Unifiltered)		Method	M2	Unit	mg/L	Result	68.0

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Certificate Of Analysis

Company: Makoya Amanzi
Address: 09 Courbonne
Oakwood
Pinehurst
Durbanville
7550
Contact: Nadine Potgieter

Service Request Number: PW-2020-2444_L1
Date of Certificate: 18-May-2020
Date Completed: 18-May-2020
Date of Sampling: 08-May-2020
Date of Receipt at Lab: 08-May-2020

Sample Identification:		Sample Condition:		Room Temperature		Remark:	
Sample Number:	PW-20-244432_L1	Method		Unit		Result	
Physical / Aesthetic Parameters							
Electrical Conductivity @ 25 °C		Method	M4	Unit	ms/cm	Result	151
pH @ 25 °C		Method	M8	Unit	pH units	Result	7.20
Total Suspended Solids		Method	M8	Unit	mg/L	Result	108
Chemistry (Macro) Parameters							
Ammonia (NH4-N)		Method	M44	Unit	mg/L	Result	7.43
Chloride as Cl-		Method	M44	Unit	mg/L	Result	256
Nitrite as N		Method	M44	Unit	mg/L	Result	<0.10
Orthophosphate as P		Method	M44	Unit	mg/L	Result	4.36
Organic Parameters							
Chemical Oxygen Demand (Unifiltered)		Method	M2	Unit	mg/L	Result	193

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Certificate Of Analysis

Company: Makoya Amanzi
Address: 09 Courbonne
Oakwood
Pinehurst
Durbanville
7550
Contact: Nadine Potgieter

Service Request Number: PW20-2444_L1
Date of Certificate: 18-May-2020
Date Completed: 18-May-2020
Date of Sampling: 08-May-2020
Date of Receipt at Lab: 08-May-2020

Sample Identification:		Sample Condition:		Room Temperature		Remark:	
Sample Number:	PW20-2444_L1	Method	Unit	Result	Unit	Analysis Date	Analysis Date
Physical / Aesthetic Parameters							
Electrical Conductivity @ 25 °C	M4	mg/L	mg/L	447	mg/L	2020-05-11	2020-05-11
pH @ 25 °C	M6	pH units	pH units	7.45	pH units	2020-05-11	2020-05-11
Chemistry (Micro) Parameters							
Ammonia (NH3-N)	M44	mg/L	mg/L	17.4	mg/L	2020-05-11	2020-05-11
Nitrate as N	M44	mg/L	mg/L	<0.10	mg/L	2020-05-11	2020-05-11
Orthophosphate as P	M44	mg/L	mg/L	6.40	mg/L	2020-05-11	2020-05-11
Organic Parameters							
Chemical Oxygen Demand (Unfiltered)	M2	mg/L	mg/L	38.0	mg/L	2020-05-12	2020-05-12

Certificate Of Analysis

Company: Makoya Amanzi
Address: 09 Courbonne
Oakwood
Pinehurst
Durbanville
7550
Contact: Nadine Potgieter

Service Request Number: PW20-2444_L1
Date of Certificate: 18-May-2020
Date Completed: 18-May-2020
Date of Sampling: 08-May-2020
Date of Receipt at Lab: 08-May-2020

Sample Identification:		Sample Condition:		Room Temperature		Remark:	
Sample Number:	PW20-2444_L1	Method	Unit	Result	Unit	Analysis Date	Analysis Date
Physical / Aesthetic Parameters							
Electrical Conductivity @ 25 °C	M4	mg/L	mg/L	362	mg/L	2020-05-11	2020-05-11
pH @ 25 °C	M6	pH units	pH units	7.43	pH units	2020-05-11	2020-05-11
Chemistry (Micro) Parameters							
Ammonia (NH3-N)	M44	mg/L	mg/L	0.22	mg/L	2020-05-11	2020-05-11
Nitrate as N	M44	mg/L	mg/L	<0.10	mg/L	2020-05-11	2020-05-11
Orthophosphate as P	M44	mg/L	mg/L	0.74	mg/L	2020-05-11	2020-05-11
Organic Parameters							
Chemical Oxygen Demand (Unfiltered)	M2	mg/L	mg/L	38.0	mg/L	2020-05-12	2020-05-12





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T0417

Certificate Of Analysis

Company:	Makoya Amanzi	Service Request Number:	PW-2020-2444_01
Address:	09 Courbonne	Date of Certificate:	18-May-2020
	OJ Kwood	Date Completed:	18-May-2020
	Pinehurst	Date of Sampling:	05-May-2020
	Durbanville	Date of Receipt at Lab:	05-May-2020
	7550		
Contact:	Isidina Popelaker		

Sample Identification:	Sample Condition:	Sample Condition:	Room Temperature	Unit	Result	Analyse Date
Sample Number:	Method	Method	Unit	Unit	Unit	Unit
Free Chlorine**		OJ 3.1a	mg/L		<0.07	2020-05-08

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T0417

Certificate Of Analysis

Company:	Makoya Amanzi	Service Request Number:	PW-2020-2444_01
Address:	09 Courbonne	Date of Certificate:	18-May-2020
	OJ Kwood	Date Completed:	18-May-2020
	Pinehurst	Date of Sampling:	05-May-2020
	Durbanville	Date of Receipt at Lab:	05-May-2020
	7550		
Contact:	Isidina Popelaker		

Sample Identification:	Sample Condition:	Sample Condition:	Room Temperature	Unit	Result	Analyse Date
Sample Number:	Method	Method	Unit	Unit	Unit	Unit
Physical / Aesthetic Parameters						
Electrical Conductivity @ 25 °C	M4		mg/L		322	2020-05-11
pH @ 25 °C	M6		pH units		7.95	2020-05-11
Chemistry (Micro) Parameters						
Ammonia (NH4-N)	M44		mg/L		4.34	2020-05-11
Nitrate as N	M44		mg/L		0.42	2020-05-11
Orthophosphate as P	M44		mg/L		2.84	2020-05-11
Organic Parameters						
Chemical Oxygen Demand (filtered)	M2		mg/L		51.0	2020-05-12

Page 1 of 8

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westamap@integral.co.za

Submitted by: Craig Greggor

Date: 19 May 2020