

**KROONSTAD, STEYNSRUS AND VILJOENSOON DRINKING WATER SUPPLY SYSTEM**



Location	Sample Date	pH		Turbidity	Iron( Acid soluble)	Iron( Filtered)	Manganese( Acid soluble)	Manganese( filtered)
		≥ 5 - ≤ 9,7	pH	NTU	mg/l	mg/l	mg/L	mg/L
	SANS 241:2015			≤ 1	≤300	≤300	≤100	≤ 100
Kroonstad WTW Raw	25/10/2024	7,8		7,6		0,09		0,13
Kroonstad FINAL	25/10/2024	7,4		2,8	0,03		0,07	
CLARIFIER 1	25/10/2024	7,6		5,5	0,05		0,23	
CLARIFIER 2	25/10/2024	7,5		5	0,04		0,2	
CLARIFIER 3	25/10/2024	7,4		7,7	0,09		0,21	
CLARIFIER 4	25/10/2024	7,4		7,2	0,05		0,19	
Panorama	25/10/2024	7,5		3,2	0,08		0,14	
Kananelo Secondary	25/10/2024	7,6		1,9	<0,03		0,14	
Constantia hall	25/10/2024	7,6		1,8	<0,03		0,14	
Cherckers Mall	25/10/2024	7,6		1,4	<0,03		0,04	
Brent Park Clinic	25/10/2024				0,07		<0,03	
Maokeng Mall	25/10/2024	7,6		1,5	<0,03		<0,03	
Averages		7,5		3,8	0,1		0,2	

**SCIENTIFIC SERVICES**

PO Box 31, Stiffontein, 2550 ♦ Farm Buffelsfontein 443 IP, District Klerksdorp  
 Tel: 018 482 9517  
 cs@midvaalwater.co.za ♦ www.midvaalwater.co.za

**Test Report - Final (F)**

<b>Customer:</b>	Proper Consulting Engineers (Pty) Ltd Plot 35 9330 Frans Kleynhans Road, Groenvlei Customer	<b>Sample type:</b>	Water
		<b>Date received:</b>	2024-10-08
		<b>Debit number:</b>	PRO007
<b>Sampler:</b>		<b>Report number:</b>	2024-70046F

**Analytical results**

Sample number			70046	70047	70048
Sampling date			2024-10-08	2024-10-08	2024-10-08
Sampling location			Kroonstad Moakeng Int School - KSDW10	Kroonstad Panorama Centre - KSDW11	Kroonstad Thusanong Clinic - KSDW12
Identification on container			Kroonstad Moakeng Int School - KSDW10	Kroonstad Panorama Centre - KSDW11	Kroonstad Thusanong Clinic - KSDW12
Determinand	Unit	Method Number			
<b>Physical, Aesthetic and Calculated Determinands</b>					
Chlorine Free**	mg/L	Performed by Customer	0.1	0.07	0.2
pH	pH units	WL1	7.7	7.6	7.6
Turbidity	NTU	WL3	0.99	1.2	0.9
<b>Microbiological Determinands</b>					
Bacteria, coliform, E. coli - Colilert®	MPN/100 ml	BL5-1	Not detected	Not detected	Not detected
Bacteria, coliform, total - Colilert®	MPN/100 ml	BL5-1	Not detected	Not detected	1
Heterotrophic Plate Count	cfu/ml	BL1-1	>3 000	1 180	>3 000

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**Test Report - Final (F)**

<b>Customer:</b>	Proper Consulting Engineers (Pty) Ltd Plot 35 9330 Frans Kleynhans Road, Groenvlei Customer	<b>Sample type:</b>	Water
		<b>Date received:</b>	2024-10-08
		<b>Debit number:</b>	PRO007
<b>Sampler:</b>		<b>Report number:</b>	2024-70041F

**Analytical results**

Sample number			70041	70042	70043	70044	70045
Sampling date			2024-10-08	2024-10-08	2024-10-08	2024-10-08	2024-10-08
Sampling location			Kroonstad Raw Water - KSDW01	Kroonstad Final Water - KSDW02	Kroonstad Boitumelo Hospital - KSDW07	Kroonstad Brent Park Clinic - KSDW08	Kroonstad Correctional Gate - KSDW09
Identification on container			Kroonstad Raw Water - KSDW01	Kroonstad Final Water - KSDW02	Kroonstad Boitumelo Hospital - KSDW07	Kroonstad Brent Park Clinic - KSDW08	Kroonstad Correctional Gate - KSDW09
Determinand	Unit	Method Number					
<b>Physical, Aesthetic and Calculated Determinands</b>							
Chlorine Free**	mg/L	Performed by Customer		0.1	0.05	0.2	0.03
Electrical Conductivity	mS/m	WL2	39.7	39.7			
pH	pH units	WL1	7.8	7.5	7.6	7.4	7.8
Turbidity	NTU	WL3	7.9	1.0	1	1	0.9
<b>Chemical - Micro Determinands</b>							
Aluminium (acid soluble)	mg/L Al	ICP-A-1		0.06			
<b>Microbiological Determinands</b>							
Bacteria, coliform, E. coli - Colilert®	MPN/100 ml	BL5-1		Not detected	Not detected	Not detected	Not detected
Bacteria, coliform, total - Colilert®	MPN/100 ml	BL5-1		Not detected	2	1 414	7
Heterotrophic Plate Count	cfu/ml	BL1-1		7	>3 000	>3 000	>3 000

**DURATION OF ANALYSES**

Chemical analyses commenced on 2024-10-08 and completed on 2024-10-11.

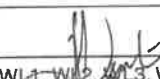
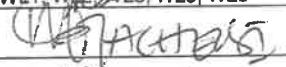


Microbiological analyses commenced on 2024-10-09 and completed on 2024-10-11.

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Microbiological counts for water analyses without dilutions are reported regardless if the result is below the method detection limit (MDL).


WL1, WL2, WL3, WL5, WL6

BL1-1, BL3, BL5-1, AL2

ICP-A-1, ICP-A-2, ICP-A-3, ICP-A-4, ICP-A-5

Management Signatory

Date of issue: 2024-10-15

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SS025 Ver:031 Implementation date: 2024-08-15

- End of report -

**SCIENTIFIC SERVICES**

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**Test Report - Final (F)**

**Customer:** Proper Consulting Engineers (Pty) Ltd  
Plot 35  
9330 Frans Kleynhans Road,  
Groenvlei  
Customer

**Sample type:** Water

**Date received:** 2024-10-17

**Debit number:** PRO007

**Report number:** 2024-70566F

**Sampler:**

**Analytical results**

Sample number			70566	70567	70568	70569	70570
Sampling date			2024-10-17	2024-10-17	2024-10-17	2024-10-17	2024-10-17
Sampling location			Kroonstad Raw Water - KSDW01	Kroonstad Final Water - KSDW02	Kroonstad Suid Rand Reservoir - KSDW03	Kroonstad Moakeng Reservoir - KSDW05	Kroonstad Kroonheuwel Plat Reservoir - KSDW06
Identification on container			Kroonstad Raw Water - KSDW01	Kroonstad Final Water - KSDW02	Kroonstad Suid Rand Reservoir - KSDW03	Kroonstad Moakeng Reservoir - KSDW05	Kroonstad Kroonheuwel Plat Reservoir - KSDW06
Determinand	Unit	Method Number					
<b>Physical, Aesthetic and Calculated Determinands</b>							
Chlorine Free**	mg/L	Performed by Customer		0.1	0.02	0.3	0.2
Electrical Conductivity	mS/m	WL2	41.0	41.5			
pH	pH units	WL1	7.8	7.7	7.7	7.7	7.7
Turbidity	NTU	WL3	3.4	1.5	0.2	0.5	0.3
<b>Chemical - Micro Determinands</b>							
Aluminium (acid soluble)	mg/L Al	ICP-A-1		0.18			
<b>Microbiological Determinands</b>							
Bacteria, coliform, E. coli - Colilert®	MPN/100 ml	BL5-1		Not detected	Not detected	Not detected	Not detected
Bacteria, coliform, total - Colilert®	MPN/100 ml	BL5-1		Not detected	770	1	5
Heterotrophic Plate Count	cfu/ml	BL1-1		86	810	>3 000	>3 000

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**Test Report - Final (F)**

**Customer:** Proper Consulting Engineers (Pty) Ltd  
 Plot 35  
 9330 Frans Kleynhans Road,  
 Groenvlei  
 Customer

**Sample type:** Water  
**Date received:** 2024-10-25  
**Debit number:** PRO007  
**Report number:** 2024-70947F

**Analytical results**

<b>Sample number</b>			70947
<b>Sampling date</b>			2024-10-25
<b>Sampling location</b>			Propercon Default
<b>Identification on container</b>			Brent Park Clinic KSDW18
<b>Determinand</b>	<b>Unit</b>	<b>Method Number</b>	
<b>Chemical - Micro Determinands</b>			
Iron (acid soluble)	mg/L Fe	ICP-A-1	0.07
Manganese (acid soluble)	mg/L Mn	ICP-A-1	<0.03

**DURATION OF ANALYSES**

Chemical analyses commenced on 2024-10-28 and completed on 2024-10-28.

**GENERAL REMARKS:**

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Microbiological counts for water analyses without dilutions are reported regardless if the result is below the method detection limit (MDL).

ICP-A-1, ICP-A-2, ICP-A-3, ICP-A-4, ICP-A-5
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Date of issue: 2024-10-30

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SS025 Ver:031 Implementation date: 2024-08-15

- End of report -

**DURATION OF ANALYSES**

Chemical analyses commenced on 2024-10-08 and completed on 2024-10-11.


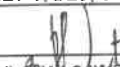
Microbiological analyses commenced on 2024-10-09 and completed on 2024-10-11.

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 ACTH281
BL1-1, BL3, BL5-1, AL2
 WL1, WL2, WL3, WL5, WL6
Management Signatory

Date of issue: 2024-10-15

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SS025 Ver:031 Implementation date: 2024-08-15

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**Test Report - Final (F)**

**Customer:** Proper Consulting Engineers (Pty) Ltd  
 Plot 35  
 9330 Frans Kleynhans Road,  
 Groenvlei  
 Customer

**Sample type:** Water  
**Date received:** 2024-10-17  
**Debit number:** PRO007  
**Report number:** 2024-70566F

**Sampler:**  
**Analytical results**

Sample number			70566	70567	70568	70569	70570
Sampling date			2024-10-17	2024-10-17	2024-10-17	2024-10-17	2024-10-17
Sampling location			Kroonstad Raw Water - KSDW01	Kroonstad Final Water - KSDW02	Kroonstad Suid Rand Reservoir - KSDW03	Kroonstad Moakeng Reservoir - KSDW05	Kroonstad Kroonheuwel Plat Reservoir - KSDW06
Identification on container			Kroonstad Raw Water - KSDW01	Kroonstad Final Water - KSDW02	Kroonstad Suid Rand Reservoir - KSDW03	Kroonstad Moakeng Reservoir - KSDW05	Kroonstad Kroonheuwel Plat Reservoir - KSDW06
Determinand	Unit	Method Number					
<b>Physical, Aesthetic and Calculated Determinands</b>							
Chlorine Free**	mg/L	Performed by Customer		0.1	0.02	0.3	0.2
Electrical Conductivity	mS/m	WL2	41.0	41.5			
pH	pH units	WL1	7.8	7.7	7.7	7.7	7.7
Turbidity	NTU	WL3	3.4	1.5	0.2	0.5	0.3
<b>Chemical - Micro Determinands</b>							
Aluminium (acid soluble)	mg/L Al	ICP-A-1		0.18			
<b>Microbiological Determinands</b>							
Bacteria, coliform, E. coli - Colilert®	MPN/100 ml	BL5-1		Not detected	Not detected	Not detected	Not detected
Bacteria, coliform, total - Colilert®	MPN/100 ml	BL5-1		Not detected	770	1	5
Heterotrophic Plate Count	cfu/ml	BL1-1		86	810	>3 000	>3 000

**DURATION OF ANALYSES**

Chemical analyses commenced on 2024-10-17 and completed on 2024-10-23.

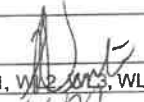
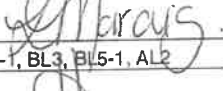
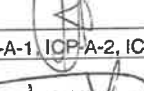

Microbiological analyses commenced on 2024-10-18 and completed on 2024-10-20.

**GENERAL REMARKS:**

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Microbiological counts for water analyses without dilutions are reported regardless if the result is below the method detection limit (MDL).

 WL1, WL2, WL3, WL5, WL6
 BL1-1, BL3, BL5-1, AL2
 ICP-A-1, ICP-A-2, ICP-A-3, ICP-A-4, ICP-A-5
 Management Signatory

Date of issue: 2024-10-24

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SS025 Ver:031 Implementation date: 2024-08-15

- End of report -

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**Test Report - Final (F)**

<b>Customer:</b>	Proper Consulting Engineers (Pty) Ltd Plot 35 9330 Frans Kleynhans Road, Groenvlei Customer	<b>Sample type:</b>	Water
		<b>Date received:</b>	2024-10-08
		<b>Debit number:</b>	PRO007
<b>Sampler:</b>		<b>Report number:</b>	2024-70041F

**Analytical results**

Sample number			70041	70042	70043	70044	70045
Sampling date			2024-10-08	2024-10-08	2024-10-08	2024-10-08	2024-10-08
Sampling location			Kroonstad Raw Water - KSDW01	Kroonstad Final Water - KSDW02	Kroonstad Boitumelo Hospital - KSDW07	Kroonstad Brent Park Clinic - KSDW08	Kroonstad Correctional Gate - KSDW09
Identification on container			Kroonstad Raw Water - KSDW01	Kroonstad Final Water - KSDW02	Kroonstad Boitumelo Hospital - KSDW07	Kroonstad Brent Park Clinic - KSDW08	Kroonstad Correctional Gate - KSDW09
Determinand	Unit	Method Number					
<b>Physical, Aesthetic and Calculated Determinands</b>							
Chlorine Free**	mg/L	Performed by Customer		0.1	0.05	0.2	0.03
Electrical Conductivity	mS/m	WL2	39.7	39.7			
pH	pH units	WL1	7.8	7.5	7.6	7.4	7.8
Turbidity	NTU	WL3	7.9	1.0	1	1	0.9
<b>Chemical - Micro Determinands</b>							
Aluminium (acid soluble)	mg/L Al	ICP-A-1		0.06			
<b>Microbiological Determinands</b>							
Bacteria, coliform, E. coli - Colilert®	MPN/100 ml	BL5-1		Not detected	Not detected	Not detected	Not detected
Bacteria, coliform, total - Colilert®	MPN/100 ml	BL5-1		Not detected	2	1 414	7
Heterotrophic Plate Count	cfu/ml	BL1-1		7	>3 000	>3 000	>3 000

**DURATION OF ANALYSES**

Chemical analyses commenced on 2024-10-08 and completed on 2024-10-11.

Microbiological analyses commenced on 2024-10-09 and completed on 2024-10-11.

**GENERAL REMARKS:**

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Microbiological counts for water analyses without dilutions are reported regardless if the result is below the method detection limit (MDL).

WL1, WL2, WL3, WL5, WL6
BL1-1, BL3, BL5-1, AL2
ICP-A-1, ICP-A-2, ICP-A-3, ICP-A-4, ICP-A-5
Management Signatory

Date of issue: 2024-10-15

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SS025 Ver:031 Implementation date: 2024-08-15

- End of report -

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**Test Report - Final (F)**

<b>Customer:</b>	Proper Consulting Engineers (Pty)	<b>Sample type:</b>	Water
	Ltd	<b>Date received:</b>	2024-10-08
	Plot 35	<b>Debit number:</b>	PRO007
<b>Sampler:</b>	9330 Frans Kleynhans Road,	<b>Report number:</b>	2024-70046F
	Groenvlei		
	Customer		

**Analytical results**

Sample number			70046	70047	70048
Sampling date			2024-10-08	2024-10-08	2024-10-08
Sampling location			Kroonstad Moakeng Int School - KSDW10	Kroonstad Panorama Centre - KSDW11	Kroonstad Thusanong Clinic - KSDW12
Identification on container			Kroonstad Moakeng Int School - KSDW10	Kroonstad Panorama Centre - KSDW11	Kroonstad Thusanong Clinic - KSDW12
Determinand	Unit	Method Number			
<b>Physical, Aesthetic and Calculated Determinands</b>					
Chlorine Free**	mg/L	Performed by Customer	0.1	0.07	0.2
pH	pH units	WL1	7.7	7.6	7.6
Turbidity	NTU	WL3	0.99	1.2	0.9
<b>Microbiological Determinands</b>					
Bacteria, coliform, E. coli - Colilert®	MPN/100 ml	BL5-1	Not detected	Not detected	Not detected
Bacteria, coliform, total - Colilert®	MPN/100 ml	BL5-1	Not detected	Not detected	1
Heterotrophic Plate Count	cfu/ml	BL1-1	>3 000	1 180	>3 000

**DURATION OF ANALYSES**

Chemical analyses commenced on 2024-10-08 and completed on 2024-10-11.


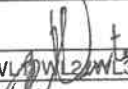
Microbiological analyses commenced on 2024-10-09 and completed on 2024-10-11.

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 ACTHOS
BL1-1, BL3, BL5-1, AL2
 WL1, WL2, WL3, WL5, WL6
Management Signatory

Date of issue: 2024-10-15

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SS025 Ver:031 Implementation date: 2024-08-15

- End of report -

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**Test Report - Final (F)**

**Customer:** Proper Consulting Engineers (Pty) Ltd  
 Plot 35  
 9330 Frans Kleynhans Road,  
 Groenvlei  
 Customer

**Sample type:** Water

**Date received:** 2024-10-02

**Debit number:** PRO007

**Report number:** 2024-69788F

**Sampler:**

**Analytical results**

Sample number			69788	69789	69790	69791	69792
Sampling date			2024-10-02	2024-10-02	2024-10-02	2024-10-02	2024-10-02
Sampling location			Kroonstad Raw Water - KSDW01	Kroonstad Final Water - KSDW02	Kroonstad Suid Rand Reservoir - KSDW03	Kroonstad Moakeng Reservoir - KSDW05	Kroonstad Kroonheuwel Plat Reservoir - KSDW06
Identification on container			Kroonstad Raw Water - KSDW01	Kroonstad Final Water - KSDW02	Kroonstad Suid Rand Reservoir - KSDW03	Kroonstad Moakeng Reservoir - KSDW05	Kroonstad Kroonheuwel Plat Reservoir - KSDW06
Determinand	Unit	Method Number					
<b>Physical, Aesthetic and Calculated Determinands</b>							
Chlorine Free**	mg/L	Performed by Customer		0.8	0.1	0.07	0.4
Colour**	mg/L Pt	WL4			<5.0	5.0	10.0
Electrical Conductivity	mS/m	WL2	38.2	39.6			
pH	pH units	WL1	8.3	7.6	7.9	7.7	7.8
Turbidity	NTU	WL3	9.3	1.5	<0.2	1.1	4.5

<b>Chemical - Macro Determinands</b>							
Ammonia	mg/L N	GL 7-1			<0.5	<0.5	<0.5

<b>Chemical - Micro Determinands</b>							
Aluminium (acid soluble)	mg/L Al	ICP-A-1		0.092			

<b>Microbiological Determinands</b>							
Bacteria, coliform, E. coli - Colilert®	MPN/100 ml	BL5-1		Not detected	Not detected	Not detected	Not detected
Bacteria, coliform, total - Colilert®	MPN/100 ml	BL5-1		Not detected	345	Not detected	Not detected
Heterotrophic Plate Count	cfu/ml	BL1-1		2	360	330	Not detected

**DURATION OF ANALYSES**

Chemical analyses commenced on 2024-10-02 and completed on 2024-10-10.

Microbiological analyses commenced on 2024-10-02 and completed on 2024-10-04.

**GENERAL REMARKS:**

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Microbiological counts for water analyses without dilutions are reported regardless if the result is below the method detection limit (MDL).

WL1, WL2, WL3, WL5, WL6
ACCEPTED
BL1-1, BL3, BL5-1, AL2
ICP-A-1, ICP-A-2, ICP-A-3, ICP-A-4, ICP-A-5
GL 7-1, GL 7-2, GL 7-3, GL 7-4, GL 7-5, GL 7-6, GL7-2-1, GL 4
Management Signatory

Date of issue: 2024-10-14

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SS025 Ver:031 Implementation date: 2024-08-15

- End of report -

**SCIENTIFIC SERVICES**

PO Box 31, Stiffontein, 2550 ♦ Farm Buffelsfontein 443 IP, District Klerksdorp  
 Tel: 018 482 9517  
 cs@midvaalwater.co.za ♦ www.midvaalwater.co.za

**Test Report - Final (F)**

**Customer:** Proper Consulting Engineers (Pty) Ltd  
 Plot 35  
 9330 Frans Kleynhans Road,  
 Groenvlei  
 Customer

**Sample type:** Water  
**Date received:** 2024-10-28  
**Debit number:** PRO007  
**Report number:** 2024-70995F

**Sampler:**  
**Analytical results**

Sample number			70995	70996	70997	70998	70999
Sampling date			2024-10-28	2024-10-28	2024-10-28	2024-10-28	2024-10-28
Sampling location			Kroonstad Raw Water - KSDW01	Kroonstad Final Water - KSDW02	Kroonstad Suid Rand Reservoir - KSDW03	Kroonstad Moakeng Reservoir - KSDW05	Kroonstad Kroonheuwel Plat Reservoir - KSDW06
Identification on container			Kroonstad Raw Water - KSDW01	Kroonstad Final Water - KSDW02	Kroonstad Suid Rand Reservoir - KSDW03	Kroonstad Moakeng Reservoir - KSDW05	Kroonstad Kroonheuwel Plat Reservoir - KSDW06
Determinand	Unit	Method Number					
<b>Physical, Aesthetic and Calculated Determinands</b>							
Chlorine Free**	mg/L	Performed by Customer		0.1	0.02	0.05	0.07
Electrical Conductivity	mS/m	WL2	39.9	37.9			
pH	pH units	WL1	7.6	7.6	7.9	7.9	7.9
Turbidity	NTU	WL3	6.0	5.9	0.3	0.5	0.9
<b>Chemical - Micro Determinands</b>							
Aluminium (acid soluble)	mg/L Al	ICP-A-1		0.05			
<b>Microbiological Determinands</b>							
Bacteria, coliform, E. coli - Colilert®	MPN/100 ml	BL5-1		Not detected	Not detected	Not detected	Not detected
Bacteria, coliform, total - Colilert®	MPN/100 ml	BL5-1		Not detected	517	4	Not detected
Heterotrophic Plate Count	cfu/ml	BL1-1		53	>3 000	>3 000	340

**DURATION OF ANALYSES**

Chemical analyses commenced on 2024-10-28 and completed on 2024-11-04.

Microbiological analyses commenced on 2024-10-28 and completed on 2024-10-30.

**GENERAL REMARKS:**

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Microbiological counts for water analyses without dilutions are reported regardless if the result is below the method detection limit (MDL).

<i>Wate</i>
WL1, WL2, WL3, WL5, WL6
<i>Mareus</i>
BL1-1, BL3, BL5-1, AL2
<i>ICP</i>
ICP-A-1, ICP-A-2, ICP-A-3, ICP-A-4, ICP-A-5
<i>Management Signatory</i>

Date of issue: 2024-11-05

This test report is only valid if signed by technical signatories. Refer to Schedule of Accreditation.

The test results relate to samples received from customers or sampled by the laboratory according to Sampling Plan SS028(c) and method (A and/or B).

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SS025 Ver:031 Implementation date: 2024-08-15

- End of report -

**DURATION OF ANALYSES**

Chemical analyses commenced on 2024-10-17 and completed on 2024-10-23.

Microbiological analyses commenced on 2024-10-18 and completed on 2024-10-20.

**GENERAL REMARKS:**

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Microbiological counts for water analyses without dilutions are reported regardless if the result is below the method detection limit (MDL).

WL1, WL2, WL3, WL5, WL6
<i>Marcus</i>
BL1-1, BL3, BL5-1, AL2
ICP-A-1, ICP-A-2, ICP-A-3, ICP-A-4, ICP-A-5
<i>[Signature]</i>
Management Signatory

Date of issue: 2024-10-24

This test report is only valid if signed by technical signatories. Refer to Schedule of Accreditation.

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SS025 Ver:031 Implementation date: 2024-08-15

- End of report -

**SCIENTIFIC SERVICES**

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 Tel: 018 482 9517  
 cs@midvaalwater.co.za ♦ www.midvaalwater.co.za

**Test Report - Final (F)**

**Customer:** Proper Consulting Engineers (Pty) Ltd  
 Plot 35  
 9330 Frans Kleynhans Road,  
 Groenvlei  
 Customer

**Sample type:** Water  
**Date received:** 2024-10-25  
**Debit number:** PRO007  
**Report number:** 2024-70907F

**Sampler:**  
**Analytical results**

Sample number			70907	70908	70909	70910	70911
Sampling date			2024-10-25	2024-10-25	2024-10-25	2024-10-25	2024-10-25
Sampling location			Kroonstad Raw Water - KSDW01	Kroonstad Final Water - KSDW02	Propercon Default	Propercon Default	Propercon Default
Identification on container			Kroonstad Raw Water - KSDW01	Kroonstad Final Water - KSDW02	Clarifier 1 KSDW13	Clarifier 2 KSDW14	Clarifier 3 KSDW15
Determinand	Unit	Method Number					
<b>Physical, Aesthetic and Calculated Determinands</b>							
pH	pH units	WL1	7.8	7.4	7.6	7.5	7.4
Turbidity	NTU	WL3	7.6	2.8	5.5	5.0	7.7

<b>Chemical - Micro Determinands</b>							
Iron (acid soluble)	mg/L Fe	ICP-A-1		0.03	0.05	0.04	0.092
Iron (filtered)	mg/L Fe	ICP-A-1	0.09				
Manganese (acid soluble)	mg/L Mn	ICP-A-1		0.07	0.23	0.20	0.21
Manganese (filtered)	mg/L Mn	ICP-A-1	0.13				

**DURATION OF ANALYSES**


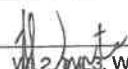
Chemical analyses commenced on 2024-10-28 and completed on 2024-10-30.

**GENERAL REMARKS:**

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Microbiological counts for water analyses without dilutions are reported regardless if the result is below the method detection limit (MDL).


ICP-A-1, ICP-A-2, ICP-A-3, ICP-A-4, ICP-A-5
 WL1, WL2, WL3, WL5, WL6

Date of issue: 2024-10-31

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SS025 Ver:031 Implementation date: 2024-08-15

- End of report -

**SCIENTIFIC SERVICES**

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**Test Report - Final (F)**

**Customer:** Proper Consulting Engineers (Pty) Ltd  
Plot 35  
9330 Frans Kleynhans Road,  
Groenvlei  
Customer

**Sample type:** Water  
**Date received:** 2024-10-25  
**Debit number:** PRO007  
**Report number:** 2024-70912F

**Analytical results**

Sample number			70912	70913	70915	70916	70917
Sampling date			2024-10-25	2024-10-25	2024-10-25	2024-10-25	2024-10-25
Sampling location			Propercon Default	Propercon Default	Propercon Default	Propercon Default	Propercon Default
Identification on container			Clarifier 4 KSDW16	Panorama Centre KSDW17	Kananelo Secondary school KSDW19	Constantia Hall KSDW20	Moakeng Mall KSDW21
Determinand	Unit	Method Number					
<b>Physical, Aesthetic and Calculated Determinands</b>							
pH	pH units	WL1	7.4	7.5	7.6	7.6	7.6
Turbidity	NTU	WL3	7.2	3.2	1.9	1.8	1.5
<b>Chemical - Micro Determinands</b>							
Iron (acid soluble)	mg/L Fe	ICP-A-1	0.05	0.08	<0.03	<0.03	<0.03
Manganese (acid soluble)	mg/L Mn	ICP-A-1	0.19	0.14	0.14	0.14	<0.03

**DURATION OF ANALYSES**

Chemical analyses commenced on 2024-10-28 and completed on 2024-10-30.

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WL1, WL3, WL5, WL6
ICP-A-1, ICP-A-2, ICP-A-3, ICP-A-4, ICP-A-5

Date of issue: 2024-10-31

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**Test Report - Final (F)**

**Customer:** Proper Consulting Engineers (Pty) Ltd  
 Plot 35  
 9330 Frans Kleynhans Road,  
 Groenvlei  
 Customer

**Sample type:** Water  
**Date received:** 2024-10-25  
**Debit number:** PRO007  
**Report number:** 2024-70918F

**Sampler:** Customer

**Analytical results**

<b>Sample number</b>			70918
<b>Sampling date</b>			2024-10-25
<b>Sampling location</b>			Propercon Default
<b>Identification on container</b>			Checkers Centrum KSDW22
<b>Determinand</b>	<b>Unit</b>	<b>Method Number</b>	
<b>Physical, Aesthetic and Calculated Determinands</b>			
pH	pH units	WL1	7.6
Turbidity	NTU	WL3	1.4
<b>Chemical - Micro Determinands</b>			
Iron (acid soluble)	mg/L Fe	ICP-A-1	<0.03
Manganese (acid soluble)	mg/L Mn	ICP-A-1	0.04

**DURATION OF ANALYSES**

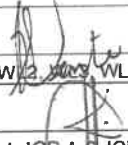
Chemical analyses commenced on 2024-10-28 and completed on 2024-10-30.

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WL1, WL2, WL3, WL5, WL6
ICP-A-1, ICP-A-2, ICP-A-3, ICP-A-4, ICP-A-5

Date of issue: 2024-10-31

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SS025 Ver:031 Implementation date: 2024-08-15

- End of report -

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**Test Report - Final (F)**

**Customer:** Proper Consulting Engineers (Pty) Ltd  
 Plot 35  
 9330 Frans Kleynhans Road,  
 Groenvlei  
 Customer

**Sample type:** Water  
**Date received:** 2024-10-25  
**Debit number:** PRO007  
**Report number:** 2024-70947F

**Analytical results**

<b>Sample number</b>			70947
<b>Sampling date</b>			2024-10-25
<b>Sampling location</b>			Propercon Default
<b>Identification on container</b>			Brent Park Clinic KSDW18
<b>Determinand</b>	<b>Unit</b>	<b>Method Number</b>	
<b>Chemical - Micro Determinands</b>			
Iron (acid soluble)	mg/L Fe	ICP-A-1	0.07
Manganese (acid soluble)	mg/L Mn	ICP-A-1	<0.03

**DURATION OF ANALYSES**

Chemical analyses commenced on 2024-10-28 and completed on 2024-10-28.

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ICP-A-1, ICP-A-2, ICP-A-3, ICP-A-4, ICP-A-5

Date of issue: 2024-10-30

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