GEOSCIENCE TESTING LABORATORY (PTY)LTD
Reg. No. 2022/794178/07
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Tel: +27 (0)41 487-3130
E-mail: civil@geosciencelab.co.za

ISO/IEC 17025 ACCREDITED

CLIENT : Lower Sundays River Water User Association
PO Box 10
Belmont Road
Sunland
6115

PROJECT : Quarterly Water Sampling
JOB CARD : TET3459
DATE SAMPLED : 07/09/2026
DATE DELIVERED: 08/09/2026
DATE COMPLETED: 17/09/2026
DATE REPORTED: 17/09/2026
SAMPLED BY: Geoscience Testing Lab
SAMPLING PROCEDURE : N/A

DATE TESTED: 09/09/2026
ATT : Mr. C Jonker

SHORT SANS LABORATORY ANALYTICAL REPORT

Parameter	Units	Method Reference / Method No	Limits SANS 241:2025	SANS 241 RISK CLASS	Sample No: WL11399 Sample ID: Korhaans Dam	Sample No: WL11400 Sample ID: Scheepers Vlakte	Sample No: WL11401 Sample ID: Ops Manager Residence	Sample No: WL11402 Sample ID: Ceasers Dam
PHYSICAL AND AGGREGATE PROPERTIES								
Electrical Conductivity	mS/m	GSF 346S	≤ 170	Aesthetic	104.60	105.30	104.90	155.20
pH at 25°C	pH units	GSF 373S	≥5.0 - ≤9.7	Operational	8.01	8.25	7.78	8.18
Turbidity	NTU	GSF 377S	≤1	Operational	47.20	56.40	9.04	19.00
Colour *	Pt-Co Units	GSF 372S	≤15	Aesthetic	221	334	66	112
Total Dissolved Solids	mg/l	GSF 297S	≤1200	Aesthetic	540	590	600	880
Total Hardness	mg equiv. $CaCO_3$/L	APHA 2340-B	N/A	Operational	99	107	108	86
Total Alkalinity	mg/l $CaCO_3$	GSF 368S	N/A	N/A	270.40	270.40	257.40	244.40
CHEMICAL - MACRO CONSTITUENTS								
Sodium *	mg/l Na	SANS 11885	≤200	Aesthetic	94.04	94.75	95.35	162.93
Chloride	mg/l Cl^-	GSF 354S	≤250	Aesthetic	158.25	167.04	175.83	281.33
Calcium *	mg/l Ca	SANS 11885	N/A	N/A	14.42	17.23	18.33	14.27
Magnesium *	mg/l Mg	SANS 11885	N/A	N/A	15.31	15.58	15.17	12.26
Potassium *	mg/l K	SANS 11885	N/A	N/A	5.56	5.70	5.93	11.35
Zinc *	mg/l Zn	SANS 11885	≤3	Aesthetic	<0.002	<0.002	<0.002	<0.002
Ammonia as N	mg/l NH_3-N	GSF 372S	≤ 0.3 ≤1.5	Operational Aesthetic	0.5	0.6	0.2	0.1
Nitrate as N	mg/l NO_3-N	GSF 372S	≤11	Acute Health	0.40	0.40	0.60	0.60
Nitrite as N	mg/l NO_2-N	GSF372S	≤0.9	Acute Health	0.005	0.023	0.005	0.013
Combined Nitrate plus Nitrite	Ratio	GSF372S	≤1.0	Acute Health	0.042	0.062	0.060	0.069
Flouride as F	mg/l F^-	GSF 372S	≤1.5	Chronic Health	0.33	0.23	0.65	0.48
Sulphate as SO_4^{2-}	mg/l SO_4^{2-}	GSF 372S	≤250	Aesthetic	66.00	66.00	66.00	69.00
CHEMICAL- MICRO CONSTITUENTS								
Copper *	mg/l Cu	SANS 11885	≤2	Chronic Health	0.403	0.367	0.418	0.460
Iron *	mg/l Fe	SANS 11885	≤0.3	Aesthetic	0.19	0.20	0.02	0.09
Silica *	mg/l SIO_2	GSF372S	N/A	N/A	9.30	7.80	9.70	2.30
Manganese *	mg/l Mn	SANS 11885	≤0.1	Aesthetic	0.182	0.198	0.037	0.078
MICROBIOLICAL CONSTITUENTS								
E.coli *	count/100ml	GSF 282S	N/D	Acute Health	199	188	N/D	38
Total Coliforms *	count/100ml	GSF 282S	≤10	Operational	792	920	<1	1420
Heterotrophic plate count *	count/1ml	GSF 282S	≤1000	Operational	469	1020	20	250

Remarks: 1. The above test results are pertinent only to the samples received and tested at the laboratory. This report shall not be reproduced, except in full, without the prior consent of Geoscience Lab (Pty) Ltd. (*) = Indicate non-accredited tests. (s) = Subcontracted test. (N/D) = Not

2. The highlighted result is an intrepretation of the direct comparison between the quoted specification and the single test sample results obtained.

3. The results met/not met is based on an aproximate 95% level of confidence with reference to ISO/IEC 98-4

Name : Aviwe Nontenja
Technical Signatory

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CLIENT :	Lower Sundays River Water User Association	PROJECT :	Quarterly Water Sampling
	PO Box 10	JOB CARD :	TET3459
	Belmont Road	DATE SAMPLED :	07/09/2026
	Sunland	DATE DELIVERED:	08/09/2026
	6115	DATE COMPLETED:	17/09/2026
		DATE REPORTED:	17/09/2026
DATE TESTED:	09/09/2026	SAMPLED BY:	Geoscience Testing Lab
ATT :	Mr. C Jonker	SAMPLING PROCEDURE :	N/A

SHORT SANS LABORATORY ANALYTICAL REPORT

Parameter	Units	Method Reference / Method No	Limits SANS 241:2025	SANS 241 RISK CLASS	Sample No: / Sample ID:	Sample No: / Sample ID:	Sample No: / Sample ID:	Sample No: / Sample ID:
					WL11398 / Sonop			
PHYSICAL AND AGGREGATE PROPERTIES								
Electrical Conductivity	mS/m	GSF 346S	≤ 170	Aesthetic	109.70			
pH at 25°C	pH units	GSF 373S	≥5.0 - ≤9.7	Operational	7.95			
Turbidity	NTU	GSF 377S	≤1	Operational	317			
Colour *	Pt-Co Units	GSF 372S	≤15	Aesthetic	611			
Total Dissolved Solids	mg/l	GSF 297S	≤1200	Aesthetic	610			
Total Hardness	mg equiv. $CaCO_3$/L	APHA 2340-B	N/A	Operational	107			
Chemical Oxygen Demand	mg/l O_2	GSF 372S	N/A	N/A	111			
Suspended Solids @105°C	mg/l	GSF 364S	N/A	N/A	255			
Total Alkalinity	mg/l $CaCO_3$	GSF 368S	N/A	N/A	270.40			
CHEMICAL - MACRO CONSTITUENTS								
Sodium *	mg/l Na	SANS 11885	≤200	Aesthetic	91.23			
Chloride	mg/l Cl^-	GSF 354S	≤250	Aesthetic	149.46			
Calcium *	mg/l Ca	SANS 11885	N/A	N/A	20.81			
Magnesium *	mg/l Mg	SANS 11885	N/A	N/A	13.29			
Potassium *	mg/l K	SANS 11885	N/A	N/A	6.05			
Zinc *	mg/l Zn	SANS 11885	≤3	Aesthetic	0.67			
Ammonia as N	mg/l NH_3-N	GSF 372S	≤ 0.3 ≤1.5	Operational Aesthetic	2.9			
Nitrate as N	mg/l NO_3-N	GSF 372S	≤11	Acute Health	0.70			
Nitrite as N	mg/l NO_2-N	GSF372S	≤0.9	Acute Health	0.10			
Combined Nitrate plus Nitrite	Ratio	GSF372S	≤1.0	Acute Health	0.175			
Flouride as F	mg/l F^-	GSF 372S	≤1.5	Chronic Health	<0.02			
Sulphate as SO_4^{2-}	mg/l SO_4^{2-}	GSF 372S	≤250	Aesthetic	66.00			
CHEMICAL- MICRO CONSTITUENTS								
Copper *	mg/l Cu	SANS 11885	≤2	Chronic Health	0.309			
Iron *	mg/l Fe	SANS 11885	≤0.3	Aesthetic	0.56			
Silica *	mg/l SIO_2	GSF372S	N/A	N/A	30.70			
Orthophosphate	mg/l PO_4	GSF372S	N/A	N/A	0.22			
Manganese *	mg/l Mn	SANS 11885	≤0.1	Aesthetic	0.660			
MICROBIOLICAL CONSTITUENTS								
E.coli *	count/100ml	GSF 282S	N/D	Acute Health	118			
Total Coliforms *	count/100ml	GSF 282S	≤10	Operational	568			
Heterotrophic plate count *	count/1ml	GSF 282S	≤1000	Operational	358			

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2. The highlighted result is an intrepretation of the direct comparison between the quoted specification and the single test sample results obtained.

3. The results met/not met is based on an aproximate 95% level of confidence with reference to ISO/IEC 98-4

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