

CERTIFICATE OF ANALYSIS

Client : Groenland Water Users Association

Report No : WT2026-02307

Order No/Ref : N/A

Address : Posbus 323 Viljoenshoop Road

Samples : 10

Delivery Date : 09/04/2026

Phone : 0725577308

Department : Water

Contact : Timothy Jack

Email : timothy@groenlandwater.co.za

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|---|--------------|
| Lab number: | WT26-04781 |
| Sampling Date: | 09/04/2026 |
| Sampling Time: | 10:00 |
| Sampling temperature upon receipt (°C): | 24.8 |
| Sampling ID: | Eikenhof Dam |

| Physical & Aesthetic Determinands | Method ID | Unit | Results | UoM % | Basic Irrigation Limits | Compliance Statement |
|---|-----------|----------|---------|-------|-------------------------|----------------------|
| Electrical Conductivity (Titrand) at 25°C | 3777 | mS/m | 5.3 | 5.85 | Not Applicable | NA |
| pH (Titrand Method) at 25°C | 3777 | pH Units | 5.3 | 0.16 | ≥6.5 to ≤8.4 | Does not comply |
| Alkalinity as CaCO ₃ (Titrand) | 3777 | mg/L | 2.9 | | Not Applicable | NA |
| Langelier Index * | Calc | | -5.9 | | ≥-0.5 to ≤0.5 | Undersaturated |
| Saturation pH (pHs) * | Calc | pH Units | 11.2 | | Not Applicable | NA |
| Sodium Adsorption Ratio (SAR) * | Calc | | 1.3 | | Not Applicable | NA |

| Macro Chemical Determinands | Method ID | Unit | Results | UoM % | Basic Irrigation Limits | Compliance Statement |
|-------------------------------|-----------|------|---------|-------|-------------------------|----------------------|
| Chloride as Cl * | 999 | mg/L | 12.4 | | Not Applicable | NA |
| Sodium (Na) Dissolved | 3132 | mg/L | 6.9 | 2.18 | ≤70 | Complies |
| Calcium (Ca) Dissolved | 3132 | mg/L | 0.69 | 2.17 | Not Applicable | NA |
| Magnesium (Mg) Dissolved | 3132 | mg/L | 0.94 | 2.07 | Not Applicable | NA |
| Potassium (K) Dissolved | 3132 | mg/L | <1.0 | 4.41 | Not Applicable | NA |
| Sulphur (S) Dissolved | 3132 | mg/L | 0.68 | 4.28 | Not Applicable | NA |
| Sulphate (SO ₄) * | Calc | mg/L | 2.0 | 12.82 | Not Applicable | NA |

| Micro Chemical Determinands | Method ID | Unit | Results | UoM % | Basic Irrigation Limits | Compliance Statement |
|-----------------------------|-----------|------|---------|-------|---|----------------------|
| Boron (B) Total | 3132 | mg/L | 0.13 | 3.06 | <0.50 | Complies |
| Iron (Fe) Dissolved | 3132 | mg/L | 0.60 | 4.34 | <5 Not toxic to root uptake | Complies |
| Iron (Fe) Total | 3132 | mg/L | 0.62 | 4.34 | >0.2 Increased risk of drip system clogging | Does not comply |
| Manganese (Mn) Total | 3132 | mg/L | <0.05 | 2.77 | ≤0.10 | Complies |
| Manganese (Mn) Dissolved | 3132 | mg/L | <0.05 | 2.77 | ≤0.10 | Complies |

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| General Chemistry | Method ID | Unit | Results | UoM % | Basic Irrigation Limits | Compliance Statement |
|--------------------------|-----------|------|---------|-------|-------------------------|----------------------|
| Dissolved Oxygen as O2 * | * | mg/L | 8.6 | | Not Applicable | NA |

| Microbiology Determinands | Method ID | Unit | Results | UoM % | Basic Irrigation Limits | Compliance Statement |
|------------------------------|-----------|-----------|---------|-------|-------------------------|----------------------|
| E coli (Membrane Filtration) | 6386 | cfu/100mL | 40 | 14.99 | Not Applicable | NA |