

# Water Analysis

## Test Kit



**THE PURION WATER ANALYSIS TEST KIT IS SPECIFICALLY DESIGNED FOR PUMP & WATER TREATMENT DEALERS WHO PREFER A MORE PROFESSIONAL PRESENTATION FOR THEIR WATER TREATMENT ACTIVITIES. THE TEST KIT IS HOUSED IN A STURDY ALUMINIUM CASE FOR USE IN THE FIELD OR OFFICE.**

### Test Kit



### TESTS INCLUDED IN KIT

**pH:** Measure of acidity or alkalinity of the water. Acid water will cause corrosion in pipes and fittings.

**Total Dissolved Solids (TDS):** Measure of the total amount of dissolved minerals in the water. High mineral content can be brackish or salty to taste.

**Iron:** Dissolved iron in the water causes red/orange staining to fixtures, sinks, footpaths and driveways.

**Manganese:** Dissolved manganese causes green/black staining to fixtures, sinks, footpaths and driveways.

**Alkalinity:** High alkalinity can cause scaling and corrosion problems

**Total Hardness:** Measures the hardness minerals in the water, principally calcium and magnesium. Hardness causes scaling to water contact appliances, pipe and fittings.

**Nitrate:** Indicates possible faecal or fertilizer contamination

**Flocculation:** Tests if fine suspended solids/colloids can be precipitated from the water.

### Analysis Questionnaire

**Water Analysis Questionnaire**

If you have an existing water analysis report for your water supply, fax, e-mail or post a copy with the completed questionnaire to Dowdens address below or to your nearest Purion dealer. If not, take a water sample as per the following instructions, tick the required test and send the sample with the completed questionnaire to Dowdens. An analysis report, product recommendation quotation, and recommended equipment brochures will be sent to you by return.

**Water Sample Collection Directions**  
Fill a thoroughly cleaned 1 or 2 litre clear plastic bottle with the water for testing. Squeeze the bottle to eliminate all air and cap the bottle. If collecting a sample from a tap, run the water for several minutes before filling bottle.

**QUESTIONNAIRE**

- Date sample taken: \_\_\_\_\_
- Water source: (circle)  
(a) Town Water Supply (b) New Bore (c) Old Established Bore (d) Well  
(e) Dam (f) Spring-Feed Dam (g) Creek (h) River
- Noticeable problem/s with water: (circle)  
(a) Hard water: water leaves soap card residue, spotted glassware, hard to lather  
(b) Salty/Brackish taste (c) Chlorine taste/odour (d) Muddy (e) Metallic/iron taste  
(f) Soda taste (g) Rotten egg/sulphate smell (h) Stale 'organic' smell (i) Bitter-taste  
(j) Fishy smell (k) Other (describe): \_\_\_\_\_
- Colour of water sample when taken: (circle) (a) Clear (b) Rusty/Orange  
(c) Milky (d) Coloidal/turbid (e) Other: \_\_\_\_\_
- Does water stain fixtures and/or fittings: (circle) (a) Yes (b) No  
If yes, what colour stain: \_\_\_\_\_
- Water usage: (circle) (a) Drinking only (b) Whole-of house (c) Whole of house & garden (d) Garden/irrigation only (e) Washing only (f) Other: \_\_\_\_\_
- For drinking water usage, number of people in family: \_\_\_\_\_
- Estimated daily water usage (litres): \_\_\_\_\_
- If pump supply, pump flow rate (litres per minute): \_\_\_\_\_
- Does pump ever foul with iron or iron bacteria: (circle) (a) Yes (b) No

**ANALYSIS TESTS**

**Basic Mineral**  
pH, TDS, Conductivity, Iron, Nitrate Hardness, Manganese, Alkalinity

**Basic Bacteriological**  
Coliforms  
Faecal Coliforms  
Heterotrophic Plate Count

**Standard Mineral**  
(Recommended for brackish or salty water)  
pH, Conductivity, Total Hardness, Total Alkalinity, Molybdate Reactive Silica, Total Iron, Total Manganese, Calcium, Magnesium, Sodium, Potassium, Sulphate, Chloride, Nitrate, Phosphate, Temporary Hardness, Bicarbonate, Alkalinity, Carbonate Alkalinity, Hydroxide Alkalinity, Free Carbon Dioxide, Total Dissolved Ions, Total Dissolved Solids, Figure Of Merit, Saturation Index, Residual Alkalinity, Sodium Adsorption Ratio.

**Comprehensive Mineral**  
(Recommended for dirty, turbid, coloured or high-sediment water)  
Same as Standard Mineral Test plus Turbidity, Total Suspended Solids, True Colour and Apparent Colour

**DOWDENS**  
PUMPING & WATER TREATMENT

BRISBANE: 15/140 Wecker Rd, MANSFIELD QLD 4121, P: 07 3828 7000  
MACKAY: 9-15 Industrial St, MACKAY QLD 4740, P: 07 4969 4949  
ROCKHAMPTON: 94 Elphinstone St, NTH ROCKHAMPTON QLD 4700, P: 07 4923 6969  
TOWNSVILLE: P: 0447 796 686

### BENEFITS OF THE KIT

#### On the Spot Analysis

No need to send water samples away for evaluation or pay sample freight costs

#### Enhanced Sales Potential

Recommend and quote the right water treatment solution on the spot. Looks professional and increases sales potential

#### Profitable

Charge the customer for the analysis service provided

#### Simple Colour Comparison Mineral Tests

For minerals, simply match the sample colour to the test card & read the result

#### TDS and pH Meters

High quality hardened aluminium cased TDS and pH pen type meters. Immerse the pen in water sample and read result from digital display

#### Aluminium Sulphate (alum) & Soda Ash

For flocculation tests of turbid water like dams or streams. Includes glass beaker and stirrer

#### Beakers and Syringes

For ease of collecting and dispensing water samples

#### Replaceable Mineral Test Kits

Individual test packs can be reordered as required



BRISBANE  
15/140 Wecker Rd  
MANSFIELD Q4121  
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