

Data Sheet for ProWater Groundwater Kit (Colorimetric tests)

	Range of test	Unit	Correlation with lab standard	Time taken by app to read results	Shelf life	Limitations
Fluoride	0 - 2.0 (Can be extended up to 10 with dilution)	mg/L	0.99	1 minute	1 year from date of manufacture	Interference: Free chlorine in the water gives a false positive reading and inaccurate results when temperature is above 41 C.
Nitrate	0 - 100 (Can be extended to 500 with dilution)			5 minutes	6 months from date of manufacture	
Residual Chlorine	0 - 3			1 minute	1 year from date of manufacture	This test should be carried out immediately, as soon as the sample is collected.
Arsenic	0 - 0.5 (Can be extended to 2.5 with dilution)			10 minute	1 year from date of manufacture	Should be used in a well ventilated area. Do not touch the test strip as it is coated with Mercury.
Sulphate	0 - 40 (Can be extended up to 200 with dilution)			5 minutes	6 months from date of manufacture	Interfering substances leading to low results : Alkali metals. Especially alkali hydrogen sulphates. Interfering substances leading to high results: Suspended matter, silica, BaCl ₂ precipitate, NO ₃ ⁻ , SO ₃ and occluded mother liquor in the precipitate.
Total Iron	0 - 5.0 (Can be extended up to 10 with dilution)			5 minutes	6 months from date of manufacture	Strong oxidising agents, cyanide, nitrites, phosphates, chromium, zinc in concentrations exceeding 10 times that of iron, cobalt, copper in concentrations exceeding 5 mg/L and nickel in concentrations exceeding 2 mg/L can all interfere with the test results.
pH	4 - 10	—		1 minute	1 year from date of manufacture	This test does not work with turbid or colored water samples.

Storage: Keep in a dry, cool place and away from sunlight.

Safety: Avoid contact with skin. Use gloves to perform the test.