







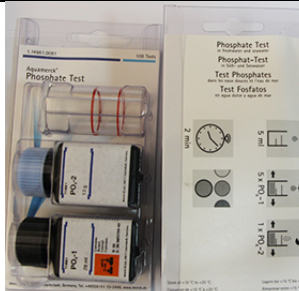




## Water tests, using field kits:

For tutorials,

- sample from Kabul well
- sample from Kabul river
- sample standard ( from lab with known concentrations)

	<p>Collection of filtered and unfiltered samples.</p>	
	<p>pH 0.00- 14 +-0.1</p>	
	<p>Electric Conductivity, - temperature</p>	
	<p>Alkalinity 0,1- 10 mmol/l</p>	

	Fluoride	0.15- 0.8 mg /l F
	Arsenic	0.05- 0.5 mg/l As
	Phosphate	
	Nitrate	15-150 mg / NO <sub>3</sub>
Other kits		
	Wagtech chem-bio-water testing kit.  To be supplied and demonstrated by WHO	
Other kits for demonstration		

Solution:

F 0.35 mg/l F

NO<sub>3</sub> 35 mg/l NO<sub>3</sub>

PO<sub>4</sub> 1.3 mg/l PO<sub>4</sub>

As 0.25

Calculations:

What is 15 mg NO<sub>3</sub> / expressed as N ?

What is 0.4 mg/l phosphate as P expressed at PO<sub>3</sub>?

What is an alkalinity of 10 mg/l at CaCO<sub>3</sub> expressed in milli equivalents?

Definitions:

Mol