



IWLA Chemical Monitoring Equipment

See the following Izaak Walton League's site for an equipment list, training materials, and measuring and reporting instructions:

<https://www.iwla.org/water/stream-monitoring/chemical-monitoring-equipment-and-forms>

Monitoring Equipment & Test Kits

The following is needed to conduct the Izaak Walton League chemical tests. We would plan quarterly testing at 3+ sites (Cabin John Creek and tributaries). The tests should last ~2 years for 3 sites before needing to purchase replacement tests (most tests have a 2-4 year shelf life).

Test	Where to Buy	Cost
Dissolved Oxygen Kit	CHEMetrics, 30 test kit https://www.chemetrics.com/product/oxygen-dissolved-chemets-visual-kit/ Oxygen Refills	\$63.60 + shipping
Phosphate Kits	CHEMetrics, 30 test kit https://www.chemetrics.com/product/phosphate-ortho-chemets-visual-ki-k-8510/ Phosphate Refills	\$74.30 + shipping
pH Test Strips	Hach 2745650 pH Test Strips, 4-9 pH units 50 tests Amazon https://smile.amazon.com/Hach-2745650-Test-Strips-units/dp/B00N4094MI/ref=sr_1_4?s=industrial&ie=UTF8&qid=1483552799&sr=1-4&keywords=pH+test+strips+hach	\$20.04
Nitrate and Nitrite Test Strips	Hach 2745425 Nitrate and Nitrite Test Strips 25 tests Amazon https://smile.amazon.com/AQUACHEK-641426-E-Nitrate-Nitrite-Swimming/dp/B00JGAXHT6/ref=sr_1_3?crd=1NIFO873ZJ0NF&keywords=hach+2745425+nitrate+and+nitrite+test+strips&qid=1658159541&srefix=Hach+2745425+Nitrate%2Caps%2C74&sr=8-3	\$19.75



Chloride Test Strips	Hach 2744940 Chloride QuanTab Test Strips, 30-600 mg/L 40 tests Amazon Hach	\$78.33
Turbidity Tube	Turbidity Tube, 60 cm, Fieldmaster Wildco, https://shop.sciencefirst.com/wildco/fieldmaster-student-kits/5971-turbidity-tube-60-cm.html	\$46.15 + Shipping
Thermometer	LaMotte 1066 Non-Mercury Armored Thermometer with Plastic Jacket, -5°C to 45°C Range, 0.5°C Division Amazon	\$35.22
Outdoor Clipboard	Metal Clipboard (Amazon)	\$19.30
Backpack	Lightweight Backpack (Amazon)	\$26.49
Nitrile Gloves	100 Medium (Amazon)	\$9.99

Estimated Total July 2022 (with shipping & taxes) = ~\$400

Replenish the Chemical Tests Only (every 2 years) = ~\$250