

Loan Equipment and Where You Can Buy Your Own

The following is a list of the equipment that Friends of the Chicago River has for loan. If you would like to purchase your own, we have provided some sources (prices subject to change). Please note, there are many other water quality tests available, some of which may be better suited to your students.


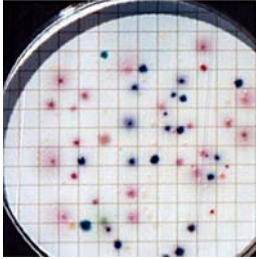
If we are joining you on your field trip, we will bring the needed equipment with us. If you are going out on your own or would like students to practice with the equipment in the classroom, contact us at (312) 939-0490, ext. 11 to check availability.

Beginner Chemistry Tests Recommended for Elementary and Early Middle Schools









Equipment	Catalog # & Price (2011-12)	Ordering Information													
GREEN Kits (Global Rivers Environmental Education Network)		 www.earthforce.org/section/programs/green/catalog													
Low Cost Water Monitoring Kit (x10 tests) <i>Includes Dissolved Oxygen or BOD, pH, Nitrate, Phosphate, (Fecal) Coliform bacteria, Temperature, and Turbidity</i>	LaMotte 3-5886 \$35.00 Forestry Suppliers 76648 \$35.25	 www.lamotte.com/pages/edu/green.html LaMotte 802 Washington Ave. Chestertown, MD 21620 Tel: 800-344-3100 (within the U.S.A.) Tel: 410-778-3100 Tel: 410-778-3101 Fax: 410-778-6394													
Water Monitoring Kit (x100 tests) <i>Includes Dissolved Oxygen or BOD, pH, Nitrate, Phosphate, (Fecal) Coliform bacteria, Temperature, and Turbidity</i>	 LaMotte 3-5848 \$212.00 Forestry Suppliers 76649 \$205.00														
Replacement Reagents for GREEN Kits	LaMotte <table border="0" style="width: 100%;"> <tr> <td style="width: 30%;">Nitrate WR Tablets</td> <td>3703A-H (x50) \$10.75; 3703A-J (x100) \$18.30</td> </tr> <tr> <td>DO Tablets</td> <td>3976A-H (x50) \$9.40; 3976A-J (x100) \$13.45</td> </tr> <tr> <td>Phosphorous Tablets</td> <td>5422A-H (x50) \$9.70; 5422A-J (x100) \$15.05</td> </tr> <tr> <td>Wide Range pH Tablets</td> <td>6459A-H (x50) \$11.60; 6459A-J (x100) \$21.15</td> </tr> <tr> <td>Thermometer Strip</td> <td>31821 (0-12°C) or 31822 (14-40°C) \$2.80</td> </tr> <tr> <td>Secchi Disk Sticker</td> <td>5886 \$.20/sticker</td> </tr> <tr> <td>Coliform Tubes/Tablets</td> <td>4-3616 (x5) \$22.42; 5850 (x44) \$91.50</td> </tr> </table>		Nitrate WR Tablets	3703A-H (x50) \$10.75; 3703A-J (x100) \$18.30	DO Tablets	3976A-H (x50) \$9.40; 3976A-J (x100) \$13.45	Phosphorous Tablets	5422A-H (x50) \$9.70; 5422A-J (x100) \$15.05	Wide Range pH Tablets	6459A-H (x50) \$11.60; 6459A-J (x100) \$21.15	Thermometer Strip	31821 (0-12°C) or 31822 (14-40°C) \$2.80	Secchi Disk Sticker	5886 \$.20/sticker	Coliform Tubes/Tablets
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Field Manual For Water Quality Monitoring (Mitchell & Stapp)	LaMotte 3-1508 \$66.42	 www.forestry-suppliers.com Forestry Suppliers Inc. 205 West Rankin Street P.O. Box 8397 Jackson, MS 39284-8397 Sales: 800-647-5368 Customer Service: 800-752-8460													

Advanced Chemistry Tests
Recommended for upper Middle and High Schools

Equipment	Catalog # & Price (2011-12)	Photo	Ordering Information
Surface Water Test Kit <i>Includes Dissolved Oxygen or BOD, pH probe, Free and total Chlorine, Nitrate, Ammonia Nitrogen, Ortho Phosphate, temperature</i>	Hach 2559833 \$300.00		 www.hach.com Hach Company PO Box 389 Loveland, CO 80539 Tel: 800-227-4224 Tel: 970-669-3050
Phosphate Replacement Reagents PhosVer 3 (220999) \$23.05	Hach 224800 \$84.79		
Nitrate Replacement Reagents Nitra-Ver 3 (1407899) \$20.79 Nitra-Ver 6 (1412099) \$32.85 Complete Reagent Set (2460800) \$51.95	Hach 1416100 \$74.55		
Dissolved Oxygen and BOD Replacement Reagents Dissolved Oxygen 1 (98199) \$16.09 Dissolved Oxygen 2 (98299) \$16.09 Dissolved Oxygen 3 (98768) \$6.45 Sodium Thiosulfate Sol. (2408932) \$13.59 Complete Reagent Set (2439802) \$67.35	Hach 146900 \$73.09		
pH Replacement Reagents Wide Range Indicator Solution, pH range 4-10, 100 mL Dropper Bottle (2329332) \$16.69	Hach 147011 \$66.15		
Thermometer Dual Range, Non-Mercury, -10 to 110°C, 0 to 220°F	Hach 2676400 \$33.99		
Turbidity Tube	Nasco SB43521M (120cm) \$49.95 SB42140M (60cm) \$44.75		
Turbidity Chemical Kit Replacement Reagents Standard Turbidity Reagent, 60ml (7520-H) \$10.75	LaMotte 7519 \$61.50		
Secchi disk	Forestry Suppliers 77179 \$29.50		 www.forestry-suppliers.com




<p>Total Dissolved Solids (TDS) Probe</p>	<p>HM COM-100 EC / TDS / TEMP COMBO METER \$56.99</p>		<p>HM Digital, Inc. 5819 Uplander Way Culver City, CA 90230</p> <p>Available through: WaterFiltersOnline.com, LLC, Warren, IN 46792</p> <p>www.waterfiltersonline.com/water-tests.asp</p>
<p>(Fecal) Coliform Bacteria</p>	<p>Micrology Laboratories Coliscan[®] Easygel[®] (ten tests) \$22.10 + shipping</p>		<p>Micrology Laboratories 1303 Eisenhower Dr. S. Goshen, IN 46526-5360 Tel: (888) EAS-YGEL Tel: (574) 533-3351 Fax: (574) 533-3370 E-mail: info@micrologylabs.com</p>

Macroinvertebrate Sampling

Equipment	Catalog # & Price (2011-12)	Photo	Ordering Information
<p>Two-way microscope</p>	<p>Nasco SB19020M \$11.25</p>		<p> www.enasco.com</p>
<p>Aquatic Net Replacement Nets (53756) \$18.75</p>	<p>Forestry Suppliers 53755 \$78.75</p>		<p> www.forestry-suppliers.com</p>
<p>Leaf pack bags Stream Ecology Kit (5882) \$199.00 Macro Flashcards (5882-SA1) \$42.00</p>	<p>LaMotte 5882-LPB (30 bags) \$21.20</p>		<p> www.lamotte.com</p>
<p>Hester-Dendy Multiple Plate Sampler</p>	<p>Forestry Suppliers 77265 (Square) \$25.95 77266 (Round) \$29.95</p>		<p> www.forestry-suppliers.com</p>
<p>Trays (for viewing macroinvertebrates)</p>	<p>US Plastic Corp. 52051 (8" x 10") \$9.65 52052 (10" x 12") \$15.17</p>		<p> www.usplastic.com US Plastic Corp. 1390 Neubrecht Rd. Lima, OH 45801-3196 Tel: 800-809-4217 Fax: 800-854-5498</p>

Entomological Forceps	BioQuip Wide-tip 4750 \$5.10		 www.bioquip.com BioQuip 2321 Gladwick Street Rancho Dominguez, CA 90220, USA Tel: 310-667-8800 Fax: 310-667-8808
Benthic macroinvertebrate cards (laminated)	Illinois EcoWatch		 www.inhs.uiuc.edu/resources/howtoorder.html Illinois Natural History Survey 1816 South Oak Street Champaign, IL 61820 Tel: (217) 244-2161 Fax: 217-333-4949 E-mail: pubs-sales@inhs.uiuc.edu
Macroinvertebrate ID sheet & Macroinvertebrate water quality calculation sheet	Friends of the Chicago River		 www.chicagoriver.org click education ► field trips ► activities ► Macroinvertebrate Monitoring

General Items

Equipment	Catalog # & Price (2011-12)	Photo	Ordering Information
Hip Waders	Forestry Suppliers Pro Line Non-Insulated Hip Boots (size 7-13) 93060-93066 \$59.95 Cabela's Hodgman® Hip Caster (size 3-13) XJ-830456 \$49.99		 www.forestry-suppliers.com  www.cabelas.com Cabela's 5225 Prairie Stone Pkwy Hoffman Estates, IL 60192 Tel: 847-645-0400 Tel: 800-237-4444