

Monofilament Recycling Units (MRUs)

Suggested Tool & Supply List

Tools listed as "optional" will make your life easier, but may be fairly expensive. However, if you or a volunteer happen to already own them, plan to bring them along!

Bin Components: (Makes 3 bins)

- 6 foot length of 4" diameter, Schedule 40 PVC (use Schedule 40 for longest lasting MRUs)
- 3 Elbows (MRU top)
- 3 Adapters w/ Screw Plugs (MRU bottom)
- PVC glue
- Stickers (request from Alabama Clean Water Partnership – www.cleanwaterpartnership.org)

Bin assembly:

- Hacksaw (there are specific PVC hacksaws which can be purchased from plumbing supply companies, but a regular hacksaw will work)
- Tape measure
- Sandpaper (any grit is fine; if purchasing specifically for this project, get 100 grit)

Optional: reciprocating saw with 12" metal cutting blade; OR band saw OR table saw with fine-toothed blade (the more teeth the better), de-burring tool (available from plumbing supply company)

Bin installation:

- Post-hole diggers (if installing 4x4 post)
- Cordless drill with long (8") drill bit (3/8" preferred)
- Wrenches to fit nuts you will be using to install (2 wrenches or ratchets with sockets or combination of the 2)
- Hacksaw or bolt-cutters (if using all-thread)
- Screwdriver (or screwdriver bit for drill) (if attaching signs; use stainless steel screws)
- Cable-tie fastener (if using cable ties - available from hardware stores)

Optional: Bucket and small shovel/trowel for mixing concrete, reciprocating saw with metal- cutting blade (if using all-thread)

Monofilament Recycling Bin Assembly and Installation

MRU Assembly:

- Cut PVC pipe into approximately 2' long pieces using a hacksaw, reciprocating saw (metal blade; 12" long blades work well), band saw or table saw. Use a deburring tool or sandpaper to remove PVC "burrs" around edges.
- Working in a well-ventilated area, apply PVC glue to inside (non-threaded part) of adapter. With adapter sitting squarely on the ground, press the pipe down into the adapter until snug. Note that PVC glue works by dissolving the PVC, then sets rapidly, so you don't have a lot of "play" time with it.
- Apply PVC glue to the inside of one end of the elbow (it does not matter which end). Press the elbow onto the pipe. Try and make sure that any blemishes on the pipe end up on the back side of the bin.
- Apply stickers.
- Drill 2 holes (about 1/4 or 3/8") in the center of the screw plug. Thread plug into adapter.



MRU Installation:

- Decide where you are going to install the bin and sign. Using a long drill bit (8"), drill 2 holes in the supporting wood (post or railings). The holes should be placed such that the upper hole will line **up** with the lower part of the elbow and the lower hole lines up with the collar of the adapter. Drill a hole through the base of the elbow at the back of the bin.
- Use bolts or all-thread to attach the bin to the post at the top hole. Lok-tite may be used on the threads to try and keep the nuts from coming loose.
- From the back side of the post, drill through the existing hole and through the collar of the adapter. Use a second bolt or piece of all-thread to attach the bin through these holes.
- If using all-thread, use a reciprocating saw or bolt cutters to cut off the excess material.

Alternate Method of Installation:

In relatively secure areas (paid-access fishing piers, for example), or where you must attach the bin to a concrete railing, you can use long cable-ties (tie-wraps) to wrap around the post and bin in 2 or 3 places. You can purchase tightening tools for the cable ties which will allow you to get a snug fit. The cable ties are available from Home Depot in 34" and 48" lengths. The excess part of the cable tie should be cut off using the tightening tool or snips.

Deterring Vandals

You can help prevent removal of 4x4 posts in one of two ways: 1. Use concrete to help set the post in the ground; 2. Nail or screw a piece of 2x4 perpendicular to the 4x4 post, as close to the ground as you can. This will prevent people from being able to rock the post back and forth.

If the container is attached to a pier/railing, you can attach a 2x4 or 4x4 to the pier adjacent to both sides of the container—this helps stop people from rocking the container back and forth and breaking it loose

Collecting and Recycling Used Fishing Line

Suggested items for volunteers who are collecting line from containers:

- Grocery store bags (to collect line)
- Nail clippers or small pair of scissors (to remove hooks, etc.)
- Large pair of pliers or large wrench (in case plug is too tight)
- Short stick with cup hook on the end (used to reach inside container and pull down line without having to put one's hand inside it)
- Spray bottle with 10% bleach (for occasional rinsing of inside of containers)

Returning used line for recycling:

Berkley makes recycling used fishing line easy, with fish benefiting from the program as well as anglers! Recycled line is crafted into artificial, underwater habitat structures which are available for purchase (or free with purchase of Berkley products). Visit the Berkley web site for additional information.

- Go to <http://www.berkley-fishing.com/> to request your free, pre-addressed, postage paid boxes for the return of used fishing line and spools. Once on the Berkley site, click on "About Us" and then click on "Contact Info". This is where you can send them an e-mail and request a set of boxes.
- Other Berkley Contact Info: Phone: 1-800-237-5539 or Email: berkley@purefishing.com
- Once you collect enough line to fill a box for return, simply fill the pre-addressed, stamped box, tape it shut and drop it in the mail. **Don't forget to include your return address on the box** - Berkley will automatically send you a new box but your address has to be included!

