

Macroinvertebrate Sampling: August 7th and 8th, 2008
Lynn Camp Prong Project
Great Smoky Mountains National Park and TTU

We sampled six sites for macroinvertebrates in the Lynn Camp Prong watershed, following the protocol set by TTU. Some of our site locations may differ slightly from the locations in the original project design due to mid-project personnel changes. I recommend any new personnel working on this project to read the TTU project proposal paper before going into the field to sample. The following describes our sampling at each site.

Marks Creek Site:

Site location starts about 15m up from the confluence with Lynn Camp Prong. We placed drift nets at the start of the site. We placed two Hester-Dendy samples; one located about 30m upstream of the confluence, and the other about 15m up from that. GPS points were taken at all locations and are stored on TTU's GPS unit. Kick seine and Hess samples were taken throughout the site, between the drift net location and the upper Hester-Dendy location.

Upper Lynn Camp Prong Treatment Site (T4):

This site is about one hundred meters downstream from the confluence with Marks Creek. The site is easily accessible from the trail and marked with flagging. All samples were taken within the immediate vicinity of the flagging location. Hester-Dendy samples were also placed and flagged. GPS locations of samples were marked.

Upper Thunderhead Prong (C3):

This site is located at the trail crossing at Thunderhead Prong. All samples were taken from about 20m downstream of trail crossing to about 20m upstream. Hester-Dendy samples were also flagged and GPS locations were taken.

Lower Thunderhead Prong (C4):

This site is located at the confluence with Long Branch, the first tributary to cross the hiking trail. We reached the site by hiking down Long Branch to the confluence with Thunderhead Prong. All samples were taken from about 20m downstream of confluence to about 20m upstream. Hester-Dendy samples were also flagged and GPS locations were taken.

After sampling we discovered, via Keith Gibbs, that the original sampling site for this section of creek was located about 0.4 miles downstream at the bridge crossing over Thunderhead Prong.

Upper Detox Site, Lynn Camp Prong:

This site is located downstream of the Lynn Camp Cascades. There is flagging visible from the trail, but due to an excess of unmarked flagging, we were unable to ascertain the exact location of the original sample location. We collected samples and placed Hester-Dendys at the most downstream flagging visible from the trail. The

locations of the samples were marked with a GPS. Using the GPS coordinates will be the easiest way to return to the sample sites.

Lower Detox Site, Middle Prong Little River:

This site is located at the parking area, about 50m downstream of the Lynn Camp-Thunderhead confluence. This site is easy to find and well-marked. We did not have enough Hester-Dendy samplers to place any at this location, but all other samples were collected. TTU mentioned shipping us more Hester-Dendy samples to place at this location; however we no longer have time for the required 5-week soak before treatment.

All data and samples are being kept by TTU.

Prepared by Collin Christianson and Mariah Mayfield, NPS