

## **SAMPLING INSTRUCTIONS**

#### Storage:

It is important to minimize the amount of time that the Bio-Trap Samplers are stored prior to being installed in the field. The physical properties of the Bio-Trap Samplers that make them an ideal medium for collecting microbes also increase the chances of microbial or chemical contamination. The Bio-Trap Samplers need to remain sealed and refrigerated (not frozen) until they can be installed in the field.

Note: Clean latex gloves (or similar) should be used at all times when handling the Bio-Trap Samplers.

#### Installation:

- Prior to installing the Bio-Trap Sampler, the monitoring well may need to be purged if it has not been sampled in a while. If purging is necessary, MI recommends that three well volumes be removed to ensure contact with formation water and reduce well bore effect.
- Attach the Bio-Trap Sampler's nylon loop (provided) to a nylon line (not provided) and suspend the Bio-Trap Sampler at a depth where significant contaminant
  concentrations exist. If no data is available on the vertical distribution of contaminants, then suspend the Bio-Trap Sampler in the middle of the saturated
  screened interval.
- If large fluctuations in the water level are anticipated during the period of incubation, the Bio-Trap Sampler should be suspended from a float (contact MI for further details). Be sure not to suspend the Bio-Trap in the NAPL zone.
- Once installed, incubation times can vary depending upon the scope of the project (routine monitoring and stable isotope probing (SIP) 30 days and "baited" 60 days).

#### Retrieval:

- Open the monitoring well and pull up the Bio-Trap Sampler. Cut and remove the braided nylon line used to suspend the Bio-Trap Sampler.
- Transfer the recovered Bio-Trap Sampler to labeled (well number and date) zippered bags, seal and then double bag in a larger (one-gallon) zippered bag, immediately place on blue ice in a cooler.
- Repeat the above for all the Bio-Trap Samplers from the site. Individual zippered bags containing the Bio-Trap Samplers can be placed in the same one-gallon zippered bag (if there is enough space).
- A chain of custody (COC) form must be included with each shipment of samples.
   Hold time for this analysis is 24 hours.

# **SHIPPING INSTRUCTIONS**

### **Packaging Samples:**

- 1. Samples should be shipped in a cooler with ice or blue ice for next day delivery. If regular ice is used, the ice should be double bagged.
- 2. A chain of custody form must be included with each shipment of samples. Access our chain of custody at <a href="https://www.microbe.com">www.microbe.com</a>.

### Shipment for Weekday Delivery:

Samples for weekday delivery should be shipped to: Sample Custodian

Microbial Insights, Inc. 10515 Research Drive Knoxville, TN 37932 (865) 573-8188

## **Shipment for Saturday Delivery:**

Due to the short hold time associated with RNA it is not recommended to send samples for Q-Expression (RNA) for Saturday Delivery.