

Ozone Demand and Decay Study Sampling Protocol

For the ozone demand and decay study, Guardian will provide the client with 3 one (1) liter pre-cleaned sample bottles for each test. When taking the sample, the client must keep in mind that it is very important for the water samples to be as representative of the process water as possible. The following is a suggested protocol for proper sampling.

Sampling From an Open Tank

- Before sampling ensure that the all system processes are operational and in nominal operating conditions.
- Find a location in the tank that would represent the bulk conditions of the water. Do not take a sample near a make up water line or some other liquid addition process to the vessel.
- Once the best location for sampling is chosen, place the sample bottle into the water with the opening facing down.
- Submerge the bottle to at least elbow depth and turn the bottle up to allow the water to partially fill it.
- Remove the bottle and dump the water out an arms distance away from the sampling location.
- Repeat this 3 times in order to completely rinse the bottle.
- After rinsing the bottle, fill it completely to the top and replace the cap. Ensure that there is no airspace bubble in the top of the sample bottle.
- Fill all 3 samples bottles in this manner and place them in the insulated shipping box filled with either ice or frozen ice packs.
- Overnight ship the sample bottles to the Guardian research lab.

Sampling from a Process Stream

- Before sampling ensure that the all system processes are operational and in nominal operating conditions.
- At the proper sample port location(s), take a sample bottle and rinse it 3 times by partially filling it and dumping out the water.
- After rinsing the bottle, fill it completely to the top and replace the cap, ensuring that there is no airspace bubble in the top of the bottle. Repeat this for all 3 bottles.
- Place the sample bottles in the insulated shipping box filled with either ice or frozen ice packs.
- Overnight ship the sample bottles to the Guardian research lab.
- **Do not ship to Cocoa FL**



Guardian Manufacturing Inc • R&D Facility • 2750 Dillard Road Suite 12 • Eustis, FL 32726
