



## TESTING - HEAVY-END CRUDE OIL ON WATER

### Bioremediation Test Procedures:

#### Materials Needed:

1. 3 liters of natural, fresh or ocean water.
2. One half pint of OSE II .
3. One 2 liter wide-mouth beaker.
4. Small Aquarium (fish tank) with Bubbler for aeration.
5. Heavy-end Crude oil.
6. Hand spray aspirator (32 ounces).

#### Procedure:

1. Make a solution containing 3-9 ounces (It depends on the composition and salt & API level of Hydrocarbon) of OSE II in 128 ounces (one gallon) natural, fresh, or ocean water. This becomes your OSE II Solution.
2. Put 1 liter of natural, fresh or ocean water in the 2-liter, wide mouth beaker.
3. Add 100 ml of heavy end hydrocarbon to be tested to the water.
4. Remove 100 ml of the oil and water solution from the beaker. Test for initial contamination level.
5. Since the spill quality of heavy-end hydrocarbons is known (100 ml), apply 100 ml of the OSE II mixed solution to the beaker using a hand sprayer. Spray the outer edges, first working your way to the middle of the heavy- end hydrocarbons. This application will provide 2- 6 parts OSE II (Depends on the 3 Or 9 ounces contains of OSEII) to 100 parts waters to 100 parts heavy-end hydrocarbons on water. This is recommended in our OSE II literature.
6. Turn on Bubbler Aerator.
7. At time intervals of (0 day initial) day 7, day 15, and day 30 (after application would be needed), remove 10 ml sample of water for analysis. The remaining water can be sampled at any additional time should 30 days prove inadequate for complete degradation of hydrocarbons.
8. Perform EPA Tests 8100 and 8030 to determine degradation

#### NOTE:

- ✓ If the hydrocarbons are aged significantly, then sampling events will be changed and extended.
- ✓ In order to perform optimum dosage please contact your local distributor