



# ABOVEGROUND OIL/WATER SEPARATOR Design/Sizing Questionnaire

### Aboveground or indoor flows to an underground tank

Intended use: Containment Solutions, Inc. Oil/Water Separators are designed for gravity separation of free oils and settleable solids from water. The inlet source shall be intermittent flow(s) originating from hydrocarbon spills, wash down, or surface flows from indoor surfaces.

|                     |                         |
|---------------------|-------------------------|
| Company Name: _____ | Company Rep: _____      |
| Address: _____      | Telephone No.: _____    |
| _____               | Fax No.: _____          |
| City: _____         | Project Name: _____     |
| State: _____        | Project Location: _____ |
| Zip: _____          | Tank Required: _____    |
| Sales Rep: _____    |                         |

(Check or fill in blank as required)

- Facility description \_\_\_\_\_  
Source of flow: \_\_\_\_\_  
Indoor (floor drains/spill/washdown)  
Outdoor (storm water, see underground Oil/Water Separator Design/Sizing Questionnaire).  
Other. Describe: \_\_\_\_\_
- Continuous flow **OR** Intermittent flow? Effluent requirement \_\_\_\_\_ ppm.
- Check appropriate design for both inlet **AND** outlet.  
Inlet: Gravity **OR** Pumped      Outlet: Gravity **OR** Pumped
- What is the area to be drained as noted in question 1? \_\_\_\_\_ sq. ft.
- Type: \_\_\_\_\_ Specific Gravity: \_\_\_\_\_ Concentration: \_\_\_\_\_ (ppm) or "unknown"
- Oil spill capacity requirement: \_\_\_\_\_ gallons (leave blank if not applicable).
- Oil storage capacity requirement: \_\_\_\_\_ gallons (leave blank if none/unknown).
- Will there be a trap, catch basin, or sump preceding the Oil/Water Separator?  
(pretrapping of solids is recommended)  
Yes    No
- Will detergents enter into the Oil/Water Separator?  
Yes    No  
  
If yes, is the detergent being used a quick-release detergent?      Yes                  No

## 10. Indoor Oil/Water Separator Tank Sizing Based on National Standard Plumbing Code

Note: Oil/Water Separators installed for surface drainage within a service or repair garage must have (1) cubic foot of volume for each 100 square feet of surface to be drained, with a minimum volume of (55) gallons. To determine tank size needed:

- 1) Multiply facility square feet by .00748 to determine gallons per minute requirement.
- 2) Choose the largest of the Oil/Water Separators as determined by
  - (a) "Spill requirement" (number 6 from above),
  - (b) 550 minimum volume as required by National Standard Plumbing Code, **OR**
  - (c) Calculated gallons per minute requirement

### SPECIFIC GRAVITY OF SELECTED OILS

#### Fuel Oils

|                                      |             |
|--------------------------------------|-------------|
| #1 Fuel Oil                          | 0.79 - 0.85 |
| #2 Fuel Oil                          | 0.81 - 0.92 |
| #3 Fuel Oil                          | 0.82 - 0.95 |
| #4 Fuel Oil                          | 0.88 - 0.97 |
| #5A Fuel Oil (Bunker A)              | 0.91 - 0.99 |
| #5B Fuel Oil (Bunker B)              | 0.91 - 0.99 |
| #6 Fuel Oil (Bunker C - Low Sulfur)  | 0.91 - 1.06 |
| #6 Fuel Oil (Bunker D - High Sulfur) | 0.93 - 1.07 |
| #2 Diesel Fuel Oil                   | 0.82 - 0.95 |

#### Crank Case Oils

|                |      |
|----------------|------|
| SAE 10         | 0.87 |
| SAE 20, 30, 40 | 0.89 |
| SAE 50         | 0.90 |

#### Machine Tool and Other Industrial Applications

|                          |      |
|--------------------------|------|
| SAE 75, 80, 90, 140, 250 | 0.93 |
|--------------------------|------|

#### Aviation Oils and Fuels

|                            |             |
|----------------------------|-------------|
| Jet Fuels                  | 0.74 - 0.85 |
| Reciprocating Engine Fuels | <0.72       |
| Reciprocating Engine Oils  | 0.88 - 0.89 |

#### Gear and Transmission Oils

|                 |             |
|-----------------|-------------|
| General Purpose | 0.88 - 0.92 |
|-----------------|-------------|

#### Marine Propulsion and Stationary Power Turbines

|        |      |
|--------|------|
| Light  | 0.87 |
| Medium | 0.87 |
| Heavy  | 0.89 |

**Note: Upon completion of this form please save as PDF and email to your CSI Representative.**