

SITE & WATERFRONT COMPLIANCE

FOR

CONTRACTORS

2011



SITE CONTRACTORS

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Critical Regulations

Stormwater Management Regulations 40 CFR 122.26

A. SUMMARY:

- The National Pollutant Discharge Elimination System (NPDES) permit program controls water pollution by regulating point sources and non-point sources that discharge pollutants into waters of the United States.
- These regulations are a key component of EPA's Clean Water Act.
- The overriding goal is to protect the quality of U.S. waterways by reducing the discharge of sediment, oil and chemicals into storm drains, surface water and groundwater.

B. WHO MUST COMPLY?

Three (3) main categories must comply with the NPDES Regulations:

1. **Industrial Sites** — a diverse range of 450 Standard Industrial Classification Codes (SIC) are regulated. Visit www.Stormwater-Products.com/regs for a detailed listing.
2. **Construction Activities** — Phase II of the regulations went into effect in March 2003 and requires that construction sites on one (1) acre or more (commercial or residential) must comply.
3. **Municipalities** — Phase II requires that all municipalities with a population of 10,000 or more must comply. Regulated properties include city-owned facilities (i.e. maintenance yards, water treatment plants, refuse dumps, city parks, parking garages, marinas, etc.) and city-supervised construction activities (i.e. road work, water main repairs, landscape development and maintenance, etc.)

C. WHAT ACTIONS ARE NECESSARY FOR COMPLIANCE?

- A Stormwater Pollution Prevention Plan (SWPPP) must be filed with the state or regional EPA to receive a stormwater permit.
- The Stormwater Plan requires the use of "Best Management Practices" (BMPs) to control stormwater runoff during construction activity or as part of a long-term maintenance plan.
- BMPs that are specified in the Plan must reduce the discharge of pollutants to the maximum extent practicable (MEP), protect water quality and satisfy the appropriate water quality requirements of the Clean Water Act.

Spill Prevention, Control and Countermeasures Rule 40 CFR 12

A. BACKGROUND:

- Under authority of The Federal Water Pollution Control Act (as amended by The Clean Water Act) the SPCC rule took effect on January 10, 1974. Its purpose is to prevent oil and oil-related materials from reaching navigable waters and adjoining shorelines. Parts of the original rule were unclear (i.e., container size was not specified) and compliance was expensive for small business due to the need to obtain certification by a Professional Engineer (PE). As a result, the original rule was revised in July 2002. Various extensions have taken place since then that address special cases. (See section F.)

B. SUMMARY:

- Facilities subject to the rule must prepare and implement a plan to prevent any discharge of "oil" into or upon navigable waters of the U.S. (including groundwater that leads to surface water) or adjoining shorelines. This written plan is called an SPCC Plan.
- Unlike oil spill contingency plans that address spill cleanup measures after a spill has occurred, SPCC Plans ensure that facilities put in place containment and other countermeasures that would prevent oil spills that could reach navigable waters.
- The SPCC Plan must address: (a) operating procedures the facility implements to prevent oil spills; (b) control measures installed to prevent oil from entering navigable waters (i.e. secondary containment); (c) countermeasures to contain, clean up and mitigate the effects of oil spills.

C. REGULATED MATERIALS:

- Animal oils, fats and greases (including oils from fish or marine mammals), asphalt, aviation gasoline, bunker fuel, crude oil, cutting oil/machine coolants, dielectric fluid, diesel fuel, heating oil, gasoline, greases, hydraulic oil, jet fuel, lubricating oil, mineral spirits, motor oil, naphtha, natural gas condensate, oil refuse, oily wastes (other than oil mixed with dredged soil), stoddard solvent, synthetic oils, tall oil, turpentine, residual fuels, used oil, vegetable oils (including oils from nuts, seeds, fruits and kernels).

D. WHAT FACILITIES ARE REGULATED?

- Facilities with combined (indoor and outdoor), above-ground **oil storage capacity** (not actual gallons on site) dedicated to any of the regulated materials **greater than 1,320 gallons** or a completely buried storage capacity greater than 42,000 gallons must comply.
- To calculate oil storage "capacity", **all containers with a capacity of 55 gallons or more are included.**
- Overall, the Rule applies to owners or operators of facilities that drill, produce, gather, store, use, process, refine, transfer, distribute or consume oil or oil products.

E. WHAT ACTIONS ARE NECESSARY FOR COMPLIANCE?

- All qualifying drums and tanks must have secondary containment and be included in the written Plan. **Facilities with above-ground oil storage capacity of 10,000 gallons or less are permitted to self-certify their Plan (no PE required) if they meet certain criteria related to spill history.** Secondary containment is also required for loading and unloading areas for tanker trucks and railcars. Secondary containment must be equal to the largest vessel. In the case of a railcar, the containment area must provide a means to divert a significant spill to a retention pond, oil/water separator, etc.

- The Plan must include a facility diagram, and must mark the location and contents of each container. Secondary containment must be constructed so that any discharge from a primary containment system (i.e. drum, tank or pipe) will not escape before cleanup occurs.

F. EPA HAS ISSUED COMPLIANCE DATE EXTENSIONS — WHAT DOES THAT MEAN?

- EPA has caused a great deal of confusion related to its various extensions. Soon after the 2002 rule changes were published, concerns expressed by industry focused on four (4) problem areas:
 1. Qualified, oil-filled operational equipment
 2. Motive power containers (e.g. vehicle fuel tanks)
 3. Mobile refuelers
 4. Animal fats & vegetable oils at onshore & offshore oil production, drilling facilities

The most recent extension date (currently November 20, 2009) applies only to the four (4) special cases listed above. The November 20, 2009 date is not an extension date for general compliance with SPCC.

G. WHO MUST COMPLY AND WHEN?

- Compliance dates for facilities (other than farms) are as follows:
 - **A facility starting operation on or before August 16, 2002 MUST** Maintain its existing Plan; must amend and implement the Plan no later than Nov. 20, 2009. Facilities in this group that do not currently have an SPCC Plan are out of compliance and are subject to regulatory action.
 - **A facility starting operation after August 16, 2002 through Nov. 20, 2009 MUST** Prepare and implement a Plan no later than Nov. 20, 2009.
 - **A facility starting operation after Nov. 20, 2009 MUST** Prepare and implement a Plan before beginning operations.

H. OTHER SPCC-RELATED ITEMS

- An SPCC inspector is **not** required to provide advance notice of a facility inspection.
- Facility owners or operators regulated by SPCC must designate a person who is accountable for discharge prevention and who reports directly to management.
- In general, "transfers" of oils are regulated by SPCC; "transportation" of oil is not regulated.

ADA Accessibility Guidelines for Buildings and Facilities (ADAAG)

A. SUMMARY:

- Detectable warnings are required at any intersection or "hazardous vehicular area". These areas are defined as follows:
 - a walk that crosses or adjoins a vehicular way and,
 - with walking surfaces not separated by curbs, railings, or other elements between the pedestrian areas and vehicular areas.
- Detectable warnings are also required at the edges of reflecting pools if not protected by railings, walls or curbs.
- Future requirements will include hazardous areas and stairways.

B. WHO MUST COMPLY?

- Any property owner or municipality that has an area as described above. Sidewalks, crosswalks and other walking surfaces that were installed before July 26, 2001 are not subject to the requirements.

C. WHAT ACTIONS ARE NECESSARY FOR COMPLIANCE?

- Detectable warnings that are installed must meet the following requirements.
 - They shall consist of raised truncated domes with a diameter of nominal 0.9 in (23 mm), a height of nominal 0.2 in (5 mm) and a center-to-center spacing of nominal 2.35 in (60 mm).
 - They shall contrast visually with adjoining surfaces, either light-on-dark, or dark-on-light. The material used to provide contrast should contrast by at least 70%.*
 - The material used to provide contrast shall be an integral part of the walking surface.
 - Detectable warnings used on interior surfaces shall differ from adjoining walking surfaces in resiliency or sound-on-cane contact.

*Contrast in percent is determined by: **Contrast = [(B1 - B2)/B1] x 100**

where B1 = light reflectance value (LRV) of the lighter area and B2 = light reflectance value (LRV) of the darker area. Note that in any application both white and black are never absolute; thus, B1 never equals 100 and B2 is always greater than 0.

Find 40 CFR 264.175 and other important regulations at <http://www.gpo.gov/>



Construction Compliance

TOP SELLERS

- Sediment Control Products
- Stormwater Management Products
- Spill Containment Products

Ultra-DrainGuard — *Keep Sediment and Other Pollutants from Entering the Water System*



Ultra-DrainGuard, Reusable Model — *Capture Dirt and Sediment at Construction Sites and Other "High Erosion" Areas*



Ultra-CurbGuard — *Keep Sediment and Other Debris Out of Curb Inlets*



Ultra-Dewatering Bag — *Contain Sediment and Oil During Dewatering Operations*



Ultra-Dewatering Bag, Reusable Model — *Reusable Dewatering Bag for Large Jobs and Big Savings*

SPILL CONTAINMENT & RESPONSE



Ultra-HardTop SpillPallets — *Store Drums Safely Outdoors*



Ultra-Containment Sumps — *Secondary Containment for Fuel Tanks*



Ultra-SpillPallets — *Economical Secondary Containment for 2 or 4 Drums*



Ultra-SpillKits — *Respond Quickly to On-Site Spills*



Ultra Spill Fence®

Protect Shorelines, Riverbeds, And Other Environmentally Sensitive Areas From Oil Spills



- Captures oil on the surface of the water, but unlike boom and other floating devices, the Ultra-X-Tex fence will also capture sub-surface oil.
- Made with Ultra-X-Tex — provides the unique benefit of allowing tidal water to flow through the fabric while absorbing oil as it passes through the fabric. Even hard-to-capture emulsified oil created by dispersants used in the open ocean is absorbed.
- Wire backing provides additional support and strength to the tidal push back and forth through the Ultra-X-Tex fabric.
- Also available using Ultra-X-Tex infused with Microbes — **Contact Us for more information.**

NEW!

ULTRA-SPILL FENCE

Part# 1460 Ultra-Spill Fence	Dimensions: 16'L x 6'W (4.9 m x 1.2 m)	Weight: 30 lbs. (14 kg)	Containment Capacity: 29 Gal. (110 L)
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U.S. Patent Pending

Ultra Oil Blanket®

Protect Beaches And Shorelines From Spills



- Install in the surf along beaches and shorelines to absorb oil spills before they can make it to land.
- Large, 10'-long x 5'-wide section of Ultra-X-Tex quickly removes oil and other hydrocarbons.
- Blanket will "tumble" in the surf and remove oil from water as it passes by and thru the filtering fabric.
- Ultra-X-Tex has the unusual benefit of being able to pull out emulsified oils which are created in the pounding surf as well as by dispersants used on the oil slicks offshore.
- Also available using Ultra-X-Tex infused with Microbes — **Contact Us for more information.**



Oil Blanket can be staked in place with wooden stakes or other anchoring devices.

ULTRA-OIL BLANKET

Part# 5206: Ultra-Oil Blanket with 25' tethers and (2) 36" wooden stake anchors.	Capacity: 16 gallons (61 L)
Part# 5207: Ultra-Oil Blanket, Replacement. No tethers or anchors.	Capacity: 16 gallons (61 L)

U.S. Patent Pending

Ultra Oil Filter Boom®

Capture Floating Oil Quickly And Stop It From Reaching The Shore

NEW!

- Six-foot-long booms made with Ultra-X-Tex absorb oil from water much faster than standard polypropylene booms.
- Unlike polypropylene, Ultra-X-Tex material will allow water to pass through freely while filtering any oil present on the water's surface.
- Each Oil Filter Boom has connecting hardware pre-installed so multiple units can be quickly and easily attached for longer lengths.
- Units are designed to be connected with 1-foot overlap to insure maximum containment/coverage.
- Ultra-Microbes can be added to provide a bio-remediation element.



ULTRA-OIL FILTER BOOM
Part#: 5220, 6' L (1.8 m)
Capacity: 10 gallons (38 L)
Weight: 5 lbs. (2.3 kg) each



Booms are quickly and easily connected.



Ultra Oil Filter Boom, Skirted Model®

Stop Oil Spills At the Surface AND Below



- Made with Ultra-X-Tex material — allows water to instantly filter through the material and pulls off the oil selectively as the material is lippophilic.
- 34" weighted skirt hangs below Boom capturing any oil that is underwater but close to the surface.
- Additional 60" skirts can be quickly added for deeper water protection.
- Multiple Booms can be connected for long, continuous runs and easy deployment/retrieval.
- Unique material removes emulsified oil and dispersants.
- Ultra-Microbes can be added to provide a bio-remediation element.



ULTRA-OIL FILTER BOOM SKIRTED MODEL
Part#: 5240, Boom, 13' L (4 m)
Capacity: 21 gallons (79 L)
Weight: 20 lbs. (9 kg) each
Part#: 5241, Extension Skirt
Dimensions: 13' x 60" (4 m x 1,524 cm)
Capacity: 21 gallons (79 L)
Weight: 12 lbs. (5.4 kg) each



Ultra Absorbent Tarp®

Catch And Trap Oil Drips Before They Can Reach The Ground

- Use under machinery and equipment to catch fluid leaks during maintenance or repairs.
- Rolls or folds into small package — store in vehicles for onsite repairs.
- Keeps floors free of oily mess — reduces slip hazards.
- Three-layer system provides maximum protection:

Top layer: UV resistant geotextile fabric — allows oils to pass through.

Middle layer: Absorbent core — oil-only polypropylene traps oils but allows stormwater to evaporate.

Bottom layer: Impermeable backing keeps drips from leaching through to the ground or shop floor.

- **Helps comply with NPDES, 40 CFR 122.26 (1999).**



ULTRA-ABSORBENT TARP

Part#	Dimensions	Capacity	Weight
8305	5' x 5' (1,524 mm x 1,524 mm)	Up to 3 gallons (11 L)	3 lbs. (1.5 kg)
8306	10' x 10' (3,048 mm x 3,048 mm)	Up to 12 gallons (45 L)	12 lbs. (5.5 kg)

Ultra Scissor Lift Diaper®

Capture Oil Leaks, Drips And Small Spills From Scissor Lifts — Keep Carpeted, Newly Painted And Other Flooring Clean!



Final stages of installation — centering Scissor Lift Diaper and securing with included Fastening Magnets.

- Keeps hydraulic oil and other lubricants from dripping onto floors — eliminates slip hazards and messy clean-ups.
- Absorbent material is poly-backed to keep absorbed liquids from leaking through.



Rolled up Scissor Lift Diaper and Fastening Magnets

- Diaper is quickly and easily installed with eight heavy-duty, Fastening Magnets (included) — stays in place even when equipment is moved to different locations.
- Part# 2030 includes (1) 16"W x 10'L Diaper and (8) Fastening Magnets.

Oil Spill Response Solutions

ULTRA-X-TEX®

- Ultra-X-TEX is a patented hydrophilic (water attracting) and lipophilic (oil attracting) material made of recycled synthetic fibers.
- Ultra-X-TEX is a hydrophilic material, allowing water to freely pass through. Ultra-X-TEX is also lipophilic, with a very high affinity for hydrocarbons. This unique combination allows water to flow completely through Ultra-X-TEX products, absorbing oil throughout instead of just on the surface, as is the case with polypropylene.
- Ultra-X-TEX absorbs over 20 times its weight in hydrocarbons. Because Ultra-X-TEX is hydrophilic, oil in water will be able to be absorbed throughout the entire diameter of an Ultra-X-TEX boom.
- Ultra-X-TEX removes emulsified and sub-surface oil created by dispersants.



Ultra-X-TEX: Roll Form & Bulk Fiber

- 100% recycled polymer material that has been treated with a patented process to achieve its unique properties.
- Each roll can absorb approximately 375 gallons of oil.
- Applications for Bulk Fiber include making absorbent oil boom with a poly foam core for buoyancy.



Ultra-X-TEX used for Spill Fence by Fore Construction

Part #	Description
9310	Ultra-X-TEX Fabric, Roll • 5'W x 250'L • Weight: 12 oz.
9312	Ultra-X-TEX Bulk Fiber Bale • 600 lbs.

Ultra-Oil Booms, Ultra-X-TEX Absorbent Models

A skirt is attached to the floating member to capture oil from passing water and surf. Custom skirts 40' long or more depth are available.

Part #	Ultra-Oil Boom Model	Dimensions	Skirt	Capacity
5200	Ultra-X-TEX Absorbent	5 1/2" dia. x 50' L	Single Flap 8"	40 Gal.
5204	Ultra-X-TEX Absorbent	5 1/2" dia. x 50' L	Double Flap 18"	40 Gal.
5201	Ultra-X-TEX, Absorbent, Microbe Infused	5 1/2" dia. x 50' L	Single Flap 8"	40 + Gal.*
5205	Ultra-X-TEX, Absorbent, Microbe Infused	5 1/2" dia. x 50' L	Double Flap 18"	40 + Gal.*

Ultra-Oil Booms, Loose Ultra-X-TEX Absorbent Models

Ultra-Oil Booms use loose fill Ultra-X-TEX material inside a non-absorbing netting to absorb oil from the water's surface.

Part #	Ultra-Oil Boom Model	Dimensions	Capacity
5214	Loose Fill Ultra-X-TEX Absorbent	5 1/2" dia. x 10' L	20 Gal.
5215	Loose Fill Ultra-X-TEX, Absorbent, Microbe Infused	5 1/2" dia. x 10' L	20+ Gal.*



Ultra-Oil Blanket, Ultra-X-TEX Models

Ultra-Oil Blankets are designed to remove oil wash-up on the shoreline. Units are 10' W x 5' L

Part #	Description	Capacity
5206	Surf Model w/ 25' Tethers and Anchors	16 Gal.
5207	Replacement Blanket, No Anchors	16 Gal.
5208	Surf Model, Microbe Infused	16+ Gal.*
5209	Replacement Blanket, Microbe Infused	16+ Gal.*



**microbes will digest the oil in the Ultra-X-TEX allowing more oil to replace that oil that has been digested and rendered harmless.*

Oil Spill Response Solutions

ULTRA-MICROBES

Using Mother Nature's own, naturally occurring microbes to help bio-remediate oil spills, oily water, oil water separators and other hydrocarbon related problems.

- These Ultra-Microbes will digest oil molecules and break the oil down into harmless byproducts of carbon, dioxide and lipids (a natural fatty material that is food for fish and plants).
- Ultra-Microbes are cultivated from rugged environments such as volcanic activity or undersea vents.
- 5 billion microbes per gram with a four year shelf life for superior performance.
- 100% natural, hardy and fast acting Microbes that have an affinity for oil and other hydrocarbons.
- With water, oxygen and an organic food source (such as oil) these microbes will form vast colonies and digest and remediate oil on and in water, as well as oil on shorelines, beaches, wetlands and marshes.
- After ninety days, the microbes will have digested and treated as much oil as they can before dying off. Safe, harmless and effective.

Ultra-Microbe Boom

This patented product takes the microbes to where the oil is...on top of the water. These booms are made of a floating foam embedded with slow-release microbes. As the Ultra-Microbes bioremediate the oil, room is made for more oil to be absorbed by the foam.



Part #	Description	Dimensions	No. Tablets	Lanyard Size	Quantity Per Box
5234	Ultra-Microbe Boom, 6" Model	6" x 4" x 1"	6	4'	6
5230	Ultra-Microbe Boom, 2' Model	24" x 2 3/4" x 1 1/2"	9	4'	3

US Patent No. 7166221/7354516

Ultra-Microbe Packets

These water soluble packages dissolve in water on contact, releasing the Ultra-Microbes with little effort and no mess. Multiple applications involving hydrocarbons, odors, harmful bacteria, grease traps, or almost anywhere oil needs to be removed or treated.



Part #	Description	Size	Qty. Per Box
5232	Ultra-Microbe Packet	4 oz.	6

Ultra-Microbe Shakers

Shaker bottles create an easy means to apply the Ultra-Microbes for a variety of applications involving oil and other hydrocarbons.



Part #	Description
5238	Ultra-Microbes, 6 oz. Shaker
5239	Ultra-Microbes, 28 oz. Shaker

Ultra-Microbes, Industrial Strength

Part #	Description	Size
5233	Clay Based Carrier, 5 Billion Microbes per gram	25 lbs. bag

Twenty-five pound bags provides ample amounts of the bio-remediating Ultra-Microbes to be easily applied to a variety of applications. Mix with water and spray on oiled surfaces, plants or water. Pour directly into sumps, oil/water separators, lagoons, catch basins and other locations requiring bio-remediation of hydrocarbon concerns.

It is important to be aware that Ultra-Microbes may not be the answer or 100% effective in every application. Consult with UltraTech's technical team to determine if your needs can be met with Ultra-Microbes.



Quick Response To Small Hydrocarbon Leaks And Spills On Water

- Fast-wicking pads are designed to soak up 25 times their weight in oil and other petroleum products, but will not soak up water.
- Polypropylene "oil only" sorbent pads are cut to fit — easily removed and replaced after they have been saturated.
- Foam core allows mop head to float on top of the water and pull off oil, gas and hydrocarbon sheen that floats on the surface of the water.
- Floating design and pivoting handle make water surface clean-up easy with no stray oil pads to retrieve.
- Aluminum handle telescopes from 30" to 52" — provides easy reach to spills.
- Helps comply with the requirements of the Clean Marina Program when used as a Best Management Practice in Stormwater Pollution Prevention Plans (SWPPP).



Optional Ultra-Fuel Mop Drip Tray (Part# 3307) provides convenient storage for Mop and Pads.

Clean Boater Products	
Part#	Description
3300	Ultra-Fuel Mop (includes six [6] Sorbent Pads)
3305	Ultra-Fuel Mop Replacement Sorbent Pads, 50-Pack
3307	Ultra-Fuel Mop Drip Tray (Used to drain and store Fuel Mop when not in use)

UltraTech International, Inc.
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