When it rains, it pours…

And with it all of our pollutants, sediments, oils, and chemicals travel right down the drains to contaminate our streams, rivers, lakes and oceans.

Stormwater Pollution Prevention Plans are now required for most businesses through the Clean Water Act. This environmental responsibility impacts each and every one of us as the need to protect our natural water resources becomes more apparent year after year.
Stormwater Management Basics

1. **Regulations:** Stormwater Management Regulations are a key component of EPA’s Clean Water Act.

2. **Overriding Goal:** Protect the quality of U.S. waterways by reducing the discharge of sediment, oil and chemicals into storm drains, surface water and groundwater.

3. **Who is Regulated?** Three (3) main categories are now required to comply with these regulations:
   - Industrial - a total of 450 Standard Industrial Classification Codes (SIC)
   - Municipalities
   - Construction Activities

4. **Did You Know?**
   - Approximately 70% of all storm drains lead directly to open waterways, without treatment.
   - 46% of all impaired rivers and lakes in the U.S. are polluted due to uncontrolled stormwater runoff.
   - A one quart oil spill causes a two acre oil slick.
   - In San Francisco, you can be fined $25,000 for dumping oil into a storm drain.
   - In 2001, a major retail chain was fined $1 million by the EPA for stormwater violations.

5. **Key Stormwater Acronyms and Phrases:**
   - **SWPPP** — A “Stormwater Pollution Prevention Plan” is an erosion, sediment and waste chemical control plan. All regulated entities must file a SWPPP with the EPA to be granted a stormwater permit.
   - **BMP** — “Best Management Practices” include operating procedures and products to control site runoff, spills, leaks and drainage from raw material storage. When filing a SWPPP, a detailed description of BMPs planned for use at the site is required.
   - **MEP** — “Maximum Extent Practicable” — Stormwater permits require that the discharge of pollutants into storm drains be reduced to the “maximum extent practicable”.
   - **NPDES** — “National Pollutant Discharge Elimination System” — This is the technical name for EPA’s stormwater management regulations. Regulated entities must comply with NPDES, 40 CFR 122.26 (1999).
   - **Non-Point Source Pollution** — This term is synonymous with “stormwater runoff”. Unlike stormwater pollution, “point source pollution” can be easily attributed to a single source, such as a catastrophic leak from a storage tank. “Non-point source pollution” (stormwater runoff) has many contributors, e.g., oil leaks from vehicles in parking lots, sediment from multiple sources, a chemical or oil sheen from drums, tanks, equipment or raw materials stored outdoors.
Basic Requirements of a Stormwater Pollution Prevention Plan

(After outlined in NPDES, 40 CFR 122.26 (1999)

A Stormwater Pollution Prevention Plan (SWPPP) is basically an erosion, sediment and waste chemical control plan. It is up to the permit holder to decide what types of Best Management Practices (BMPs) to use at a given site, but the company/municipality/contractor must comply with the permit requirement. SWPPPs will typically include:

- Site description with a map.
- A description of the sediment, erosion and polluted water controls used on-site, including stabilization and structural practices (such as seeding, and catch basin inserts like the Drain Dragon).
- Descriptions of the BMPs to control stormwater runoff after completion of a construction activity or as a part of a long term maintenance plan.

What are the Permit Requirements?

Permit holders are required to develop, implement and enforce a stormwater management program to:

- Reduce the discharge of pollutants to the maximum extent practicable (MEP).
- Protect water quality.
- Satisfy the appropriate water quality requirements of the Clean Water Act.
- Submit a Notice of Intent (NOI) which includes BMPs to be used, measurable goals, frequency of actions and responsible persons.

What are Baseline BMPs?

- **Good Housekeeping**: reduce spill potential, routine inspections.
- **Preventive Maintenance**: maintain pipes, pumps, drum/tank storage and stormwater devices.
- **Visual Inspections**: signs of obvious stormwater contamination in outdoor storage and processing areas.
- **Spill Prevention and Response**: spill containment of drums and tanks, spill clean-up procedures, easily accessible spill response products.
- **Sediment and Erosion Control**: control methods for high erosion areas due to topography activities or other factors.
- **Runoff Management**: flow diversion, filtering using catch basin inserts, use of sumps, berms, mitigative techniques such as vacuuming, use of sorbents.

What are Advanced BMPs?

- **Vegetated Filter Strips**
- **Detention Basins and Ponds**
- **Catch Basin Filters (disposable)**
- **Passive Skimmers**
- **Litter Removal Devices**
- **Silt Fences**
- **Drain Inlet Inserts**
- **Permanent Catch Basin Inserts**

United Laboratories offers you unique solutions for your Stormwater Pollution Prevention Plan through a combination of the equipment outlined in this brochure, our other maintenance products and the professional services of your United representative. Together they will bring your Best Management Practices in-line with today’s regulatory requirements.
DRAIN DRAGON

United’s DRAIN DRAGON Catch Basin Insert will protect the drain passages by capturing hydrocarbons, dirt, sand and other contaminants as they enter the storm drains.

For use in:

Parking Lots, Retail Facilities, Drive-Up Facilities – Collects oil, fuel and other pollutants left by vehicles.

Industrial Facilities – Captures oil and other contaminants, keeping them from entering storm drains.

Construction Sites – Collects eroded soil, silt and other debris.

DRAIN DRAGON also available for Curb Inlets

We have a DRAIN DRAGON designed perfectly for use with combination catch basins with street grate and curb openings.

They feature heavy-duty tension rods that secure the DRAIN DRAGON inside the curb inlet – stopping sediment and other contaminants from entering curb portion of the storm drain.

Fits grate sizes up to 40” x 40” and curb inlets up to 60” wide.

All DRAIN DRAGONS help to comply with NPDES, 40 CFR 122.26 (1999) and Total Maximum Daily Load (TMDL) requirements.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description</th>
<th>Dimensions</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>S035</td>
<td>DRAIN DRAGON Catch Basin Insert, Single Pack</td>
<td>48” L x 36” W x 18” H</td>
<td>Up to 1.38 gallons of oil and up to 40 lbs. of sediment</td>
</tr>
<tr>
<td>S036</td>
<td>DRAIN DRAGON Catch Basin Insert, 10 Pack</td>
<td>48” L x 36” W x 18” H</td>
<td>Up to 1.38 gallons of oil and up to 40 lbs. of sediment</td>
</tr>
<tr>
<td>S037</td>
<td>DRAIN DRAGON Curb Inlet</td>
<td>For curb inlets from 24” – 42”</td>
<td>Up to .87 gallons of oil and up to 40 lbs. of sediment</td>
</tr>
<tr>
<td>S038</td>
<td>DRAIN DRAGON Curb Inlet</td>
<td>For curb inlets from 42” – 60”</td>
<td>Up to .87 gallons of oil and up to 40 lbs. of sediment</td>
</tr>
</tbody>
</table>

PIT BULL Catch Basin Filter

The dual chambered PIT BULL will attack your stormwater issues, providing multiple filtration options in one unit. As water enters the first chamber, sediment settles and is retained there. The second chamber is then set up with filtering media that filters the water. Simply choose the right filtering media for your specific needs.

- This BMP removes hydrocarbons, heavy metals, sediments and other organics from stormwater and industrial runoff.
- Exceeds 80% sediment removal efficiency.
- Patented filtration system allows different filter media to be used together to remove targeted pollutants.
- Choose a mix of filters to remove hydrocarbons/oil, chemicals, odor, phosphorus and heavy metals from water flow.
- By-pass system prevents flooding or ponding during high-flow storm events.
- Excellent post-construction control for drains that are more susceptible to large concentrations of contaminants (“Hot Spots”).
- Units available for round or square catch basin grates. Custom sizes available.*
- Considered a “true filter” with separate chambers for sediment removal and filters.
Mix and match filter media depending on your specific needs. The PIT BULL allows you to use more than one type of filter media.

- **Oil/Hydrocarbon Filter Media** — Used to remove oil, grease and other hydrocarbons.
- **Phosphorous Filter Media** — Excellent for removal of phosphorous where fertilizer and animal waste runoff is a concern.
- **Activated Carbon Filter Media** — Excellent “polishing media”. Helps remove certain chemicals, hydrocarbons and odors.
- **Heavy Metal Filter Media** — Custom filter media blend helps remove zinc, lead, copper and other harmful, heavy metals.

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<table>
<thead>
<tr>
<th>PIT BULL</th>
<th>Flat Frame</th>
<th>Recessed Frame</th>
<th>Fits Drains</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item #S013</td>
<td>Item #S016</td>
<td></td>
<td>20” – 25”</td>
</tr>
<tr>
<td>Item #S014</td>
<td>Item #S017</td>
<td></td>
<td>26” – 33”</td>
</tr>
<tr>
<td>Item #S015</td>
<td>Item #S018</td>
<td></td>
<td>34” – 48”</td>
</tr>
<tr>
<td><strong>Options</strong></td>
<td>Item #S024</td>
<td>Sampling Option</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Item #S025</td>
<td>Sample Collector</td>
<td></td>
</tr>
<tr>
<td><strong>Filter Media</strong></td>
<td>Item #S019</td>
<td>(2) Oil/Hydrocarbon Filters &amp; (1) Activated Carbon Filter</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Item #S020</td>
<td>Heavy Metal Filter</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Item #S021</td>
<td>Phosphorous Filter</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Item #S022</td>
<td>Oil/Hydrocarbon Filter</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Item #S023</td>
<td>Activated Carbon</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** All PIT BULL units are custom made to fit each individual catch basin. The final pricing is based on the configuration of the frame (Flat or Recessed) and number of required Filter Media (2 or 3). This cannot be fully determined until the end user has submitted the completed Measurement Instructions and Filter Media Selection forms. Please consult your United representative for more information.

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**PIT BULL Also Available with Sampling Option**

The Sampling Option is a convenient and effective means to obtain samples of the “post-treatment” effluent from the PIT BULL unit to comply with monitoring and testing requirements.

- Sampling Option provides standard PIT BULL with modifications to allow Sample Collector (sold separately) to pull “post-treatment” water samples from below the unit’s filters.
- Allows real-time sampling during storm events.
- Access space stays covered until a sample is desired.
- Simple sampling — No need to remove the PIT BULL to take a sample. Simply remove the grate, slide open the sampling port and insert the sampling device.
- Sample Collector has a 60” long handle which makes collection quick and easy.

Use of the PIT BULL helps to comply with NPDES, 40 CFR 122.26 (1999) and TMDL requirements.
STINGRAY Inlet Guard

Let the STINGRAY protect drains and inlets without the need for lifting any grates.

The STINGRAY lies flat over inlet grates, barely noticeable as it holds on tight with magnetic force to protect your drains from debris.

- Keeps dirt, sand, sediment, trash and debris out of drains.
- Quick and easy installation using built-in magnets — no more lifting heavy catch basin grates.
- Available in several sizes for street drains, combination drains and trench drains.
- Heavy-duty, reinforced material (non-woven, polyester spun) allows up to 192 gal/ft²/min. through drains.
- Low profile design can be driven over and is unobtrusive to traffic and personnel.
- Includes built-in overflow port to help prevent flooding and/or ponding during heavy rainfall.

<table>
<thead>
<tr>
<th>STINGRAY Inlet Guards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item #5039 24” x 24”</td>
</tr>
<tr>
<td>Item #5040 24” x 36”</td>
</tr>
<tr>
<td>Item #5041 24” x 48”</td>
</tr>
</tbody>
</table>

The STINGRAY helps to comply with NPDES, 40 CFR 122.26 (1999) and TMDL requirements.

PIRANHA BOOM

As a PIRANHA attacks its prey, this mighty little bilge boom will attack and gobble up oil and grease in your drains.

The PIRANHA is the perfect size for inserting into drains and manholes to absorb oil, food grease and other hydrocarbons. It will not block drain as it floats on top of the water.

- Durable all-in-one construction protects filling and delivers superior strength.
- Highly absorbent fill resists water absorption to stay afloat.
- One-piece cover and net prevents boom from snagging on debris.
- Carefully secured rope runs full length of one side of the boom to prevent twisting and provide added strength.
- 15% more absorbency than similar products.
- Hydrocarbon locking system encapsulates hydrocarbons absorbed into the boom and locks them in for good.
- Easy to install and replace.

<table>
<thead>
<tr>
<th>PIRANHA BOOM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item #5045 8” x 18” Sold in Case of 10</td>
</tr>
</tbody>
</table>
Even the Best Preventive Steps May Need Temporary Help When Spills Occur

Being able to respond quickly to spills to prevent them from getting into the drains and stormwater system is a necessity and United offers a couple of items to help fill that need.

SMACK DOWN Drain Seals
As the name suggests, simply smack these drain seals down on the drain to stop the spills from going down in the drain.

- Unique urethane construction allows SMACK DOWNs to deform and seal off most drains, temporarily sealing to any smooth surface.
- Reinforcing mesh is enclosed between layers of polyurethane for increased durability and resistance to tearing.
- SMACK DOWNs are a valuable addition to any emergency response plan, spill kit, SPCC or stormwater management program.
- Lay it down on either side to quickly seal drains – no specified top or bottom.
- Resists oil, water and most aggressive chemicals.
- Cleans with soap and water.
- Multiple shapes and sizes available.
- Helps comply with SPCC and NPDES.

Optional Wallmountable Storage for SMACK DOWNs
Storage unit makes it easy to grab and go for quick response. Velcro strap makes opening and closing a breeze. Will not rust or corrode. Made of HDPE.

<table>
<thead>
<tr>
<th>SMACK DOWN Drain Seals - Square</th>
<th>SMACK DOWN Drain Seals - Round/Rectangle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item #S001 - Orange</td>
<td>Item #S001 - Orange</td>
</tr>
<tr>
<td>Item #S002 - Orange</td>
<td>Item #S002 - Clear</td>
</tr>
<tr>
<td>Item #S003 - Orange</td>
<td>Item #S003 - Orange</td>
</tr>
<tr>
<td>Item #S004 - Orange</td>
<td>Item #S004 - Orange</td>
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<tr>
<td>Item #S005 - Orange</td>
<td>Item #S005 - Orange</td>
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<tr>
<td>Item #S006 - Orange</td>
<td>Item #S006 - Clear</td>
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<td>Item #S007 - Orange</td>
<td>Item #S007 - Orange</td>
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<td>Item #S008 - Orange</td>
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<td>Item #S009 - Orange</td>
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<tr>
<td>Item #S010 - Orange</td>
<td>Item #S010 - Orange</td>
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<tr>
<td>Item #S011 - Orange</td>
<td>Item #S011 - Orange</td>
</tr>
<tr>
<td>Item #S012 - Orange</td>
<td>Item #S012 - Orange</td>
</tr>
</tbody>
</table>

Wallmount unit fits: 18” x 18”, 24” x 24”, 18” x 58”, 12” diam. and 20” diam.
Dimensions: 27” L x 7” diameter

Wallmount unit fits: 36” x 36”, 36” x 58” and 30” diam. drain seals
Dimensions: 39” L x 7” diameter

Wallmount unit fits: 42” x 42”, 48” x 48” and 42” diam. drain seals
Dimensions: 51” L x 7” diameter
**PYTHON Berms**

**PYTHON Berms** will snake around any drain to keep spills at bay. Use as a temporary spill berm to seal off spills from nearby drains, the environment, doorways and more.

- Standard 10 foot sections can be cut to various lengths to meet custom needs.
- Unique, urethane material “weeps” into small cracks and crevices to seal off liquid flow.
- **PYTHON Berm** is non-absorbing and is easily cleaned for repeated use.
- Applications include: Spill Response
- Temporary Secondary Containment
- Sealing Off of Doorways During Washdown Operations.

Due to the nature of softer urethane, the physical properties of these products may change with exposure to certain environmental conditions like temperature, humidity and UV radiation. Regular inspection of the stored product should be done to ensure it is in a usable state.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Color</th>
<th>Size</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>S034</td>
<td>Orange</td>
<td>10' x 4' x 2 1/2''</td>
<td>31 lbs.</td>
</tr>
</tbody>
</table>

**TIGER BOOM**

The **TIGER BOOM** can leap into action both indoors and out. Designed specifically to absorb oils, greases and other hydrocarbons.

**TIGER BOOMS** can wrap their tails around tight turns and are flexible enough for wrapping around oil-leaking equipment.

The highly absorbent filling is made from a mixture of high performance fibers that allow these socks to absorb 15% more than most other similar products on the market. Wrapping them in a tough cover material makes them extra strong and durable.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Color</th>
<th>Size</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>S046</td>
<td>White</td>
<td>3' x 4'</td>
<td>Case of 20</td>
</tr>
</tbody>
</table>