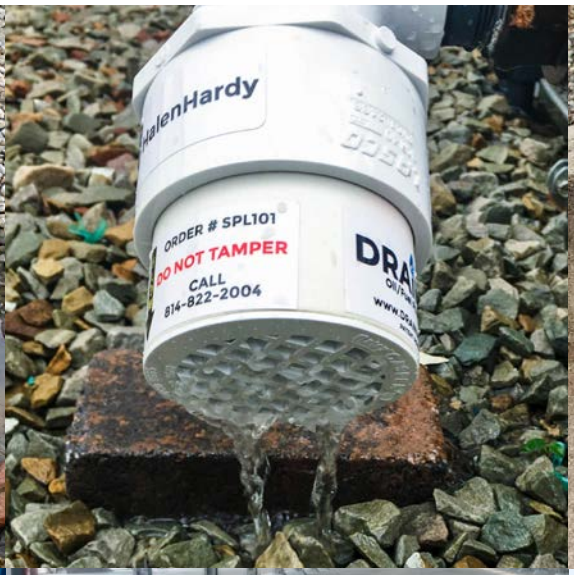
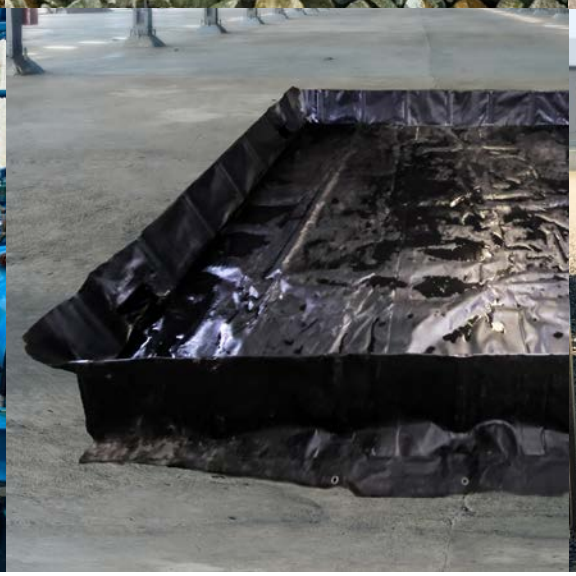
Spilltration® PRODUCTS

SECONDARY CONTAINMENT

Simplify Spill & Sediment Control®

Drainiac® is manufactured exclusively by HalenHardy®





Onward. Upward.

Constant improvement of our practices to help our clients meet and exceed their environmental objectives.

STORMWATER IN SECONDARY CONTAINMENT

Harnassing Innovation to Achieve Perfect Stormwater Discharge

Learn how one company implemented the latest technological innovation in stormwater discharge to improve its network of secondary containment structures.

Draining stormwater from secondary containment is a messy & expensive task.

SPCC rules require oil-filled vessels (like transformers) to be placed inside impermeable secondary containment structures. As an electric utility, you probably have scores of secondary contaminants in your system. The problem is, many of these structures collect rainwater. But, you can't let the water build up inside containment because it takes up your "freeboard" capacity. So, every time you get an inch of rain, you have to drain the water manually.

It's a time-consuming pain in the neck. And to compound the problem, if any of the oil-filled equipment is leaking, you have an oily sheen on the water and are not allowed to discharge it. So, you have a bigger pain and expense to pump, haul and treat the slightly contaminated water.

Fortunately, there's a better way to save time and money AND stay in SPCC compliance.


Oily sheen on top of secondary containment water.


Debris and sediment clogging containment drains.


Forgetting to close drain valves.

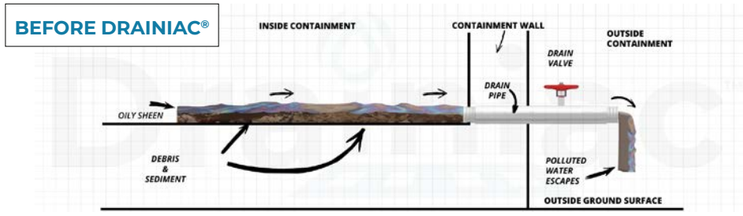

Hiring expensive vac trucks.

Cut your secondary containment stormwater discharge costs in half.

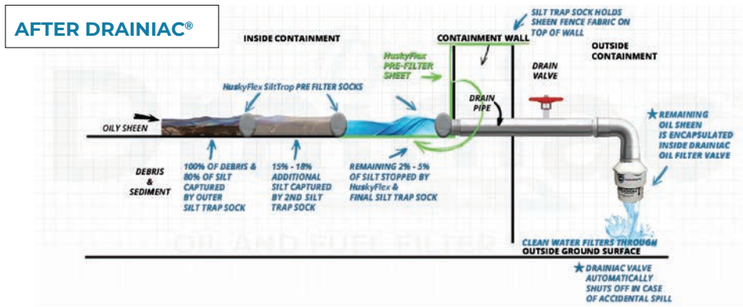
The Drainiac® Petroleum Filter Valve System

Discover the cost-effective way to stay ahead of sheen water inside of your secondary containment. Not only does our proprietary filter media capture and bind oily sheen, but it also automatically swells up and shuts off in case of an accidental spill. Perfect for outdoor, above-ground secondary containment.

BEFORE DRAINIAC®



AFTER DRAINIAC®



- **Filters Oil and Fuel:** Filters petroleum sheens from secondary containment stormwater
- **Saves Money:** Eliminates the high cost to pump, haul and dispose of contaminated secondary containment water
- **Captures Sediment:** Captures sediment before it clogs your petroleum filter valves
- **Prevents Spills:** Automatically shuts off. Prevent catastrophic petroleum spills from escaping secondary containment

I'm in charge of the maintenance of more than 250 substations.

Each substation holds hundreds to thousands of gallons of dielectric fluid inside transformers and capacitors. All our substations are surrounded by secondary containment to protect against an unexpected oil spill.

To remove excess stormwater, we employ petroleum filter valves. They filter oil sheens and let clean water pass through. Plus, they shut off in case there is an accidental spill inside the containment. But, the filters have one problem. 90% of the time, they clog prematurely with fine sediment suspended in the runoff water.

Current filter valve manufacturers haven't come up with a pre-filter system to protect the $2,500 valve from prematurely clogging with sediment. So we asked the crew at HalenHardy® to see if they could engineer a better system that didn't clog with sediment. We were doubtful they could crack the code but decided to give them a try.

After six months of field experiments, they cracked the code. Their Spilltration® pre-filter system extends the life of the Drainiac® valve by 300% to 500%. As a result, our costs have dropped by more than 80%. We're saving more than $100,000 every year. And, the Drainiac® valves are lab tested to ensure the complete shut off in case of an accidental spill.

- Substation Engineer at a Leading Electric Utility

Got below-grade secondary containment sumps? Learn how our self-pumping Drainiac® Petroleum Filter Valves can help! ***CALL US AT 814-822-2004.***

SEE IT in action

DRAINIAC® PETROLEUM FILTER VALVE

Got oily sheens in your secondary containment stormwater?

No problem. Now you can filter and encapsulate sheens from your stormwater 24/7 with the Drainiac® Petroleum Filter Valve System. And, if you have an accidental spill inside the containment, the Drainiac® valve automatically shuts off immediately. So it keeps the spill where it belongs - inside your containment.

Its patented design is both efficient and affordable and helps you stay in SPCC compliance. No more manual opening and closing of drain valves. No more expensive vac trucks to pump, haul and treat oily containment water. In all, the Drainiac® Petroleum Filter Valve Systems can save you up to 90% vs. your current methods of secondary containment stormwater treatment.

Patent Pending Drainiac® filter valve lineup left to right:
SPL101; SPL101-.75MIPT; SPL103

- **Lasts up to 10x Longer:** Unlike our rivals' expensive oil filter valves, our pre-filter system prevents the system from prematurely clogging with silt, sediment, and debris.
- **Fast & Compact:** Drains 4x Faster and is 400% smaller than other "similar" products.

mfn	SPL101	SPL101-.75MIPT for portable secondary containment	SPL103
dimensions	3.5" Diameter x 5.5"L	3.5" Diameter x 6"L	6.5" Diameter x 8"L
sold as	each	each	each
inlet fitting	2" male NPT threaded adapter	.75" male NPT threaded adapter	6" male NPT threaded adapter
flow rate	2" to 1" Head Pressure: 56.6 gal./hr. 1" to 0" Head Pressure: 41 gal./hr.	2" to 1" Head Pressure: 56.6 gal./hr. 1" to 0" Head Pressure: 41 gal./hr.	2" to 1" Head Pressure: 387 gal./hr. 1" to 0" Head Pressure: 309 gal./hr.
msrp		$295	$ 1,475

The #1 Enemy of Secondary Containment Filter Valves

The most common cause of replacing your oil filter valves is clogging with sediment or debris.

Protect your Drainiac® Petroleum Filter Valve (or any other brand) from prematurely clogging with sediment and debris with this complete pre-filter system. Its simple patented design is easy to use.

Set it. Forget it.®

The simple monthly maintenance routine takes only a few minutes.

Install the HuskyFlex Pre-Filter Sheets on the interior of your containment to cover your outlet pipe.

Then secure in place with HuskyFlex SiltTrap socks. This prevents fine sediments and debris from prematurely clogging your valves.

Drainiac® Pre-Filter System for Above-Ground Containment

Includes 4 Silt Trap Socks and 8 HuskyFlex Pre-Filter Sheets. Just install the Silt Trap socks around the drain outlet and HuskyFlex filter fabric over the top of the outlet pipe.

HuskyFlex Pre-Filter Sheet	16" x 30" per sheet
Silt Trap Socks	3.5" x 1.5" x 24" per sock
max flow rate	110 gal per min
msrp	$169 per case

Drainiac® HuskyFlex Pre-Filter Sheets

dimensions	16" x 30" per sheet
sold as	8 sheets
max flow rate	10 gallons per minute at 1-inch head pressure
msrp	$49

Drainiac® Silt Trap Pre-Filter Socks

dimensions	3.5" x 1.5" x 24" per sock
sold as	4 socks
msrp	$129 per case of 4

Drainiac® Pre-Filter Sediment Jacket

For use in underground sumps or interior mounted secondary containment.

mfn	SPL104	SPL104-3
use with	SPL103	SPL101 & SPL101-.75MIPT
dimensions	13.75"W x 21.5"L	7.5"W x 9.5"L
sold as	each	each
pore size	53 microns	53 microns
max flow rate	110 gal./min.	50.5 gal./hr.
msrp	$89	$46

Most bulkhead fittings don't allow the last 2 inches of standing water to drain from the berm.

YOU JUST CAN'T GET THERE.

BEFORE HardyBerm System

From Idea to Sketchpad to Finished Product in Six Weeks

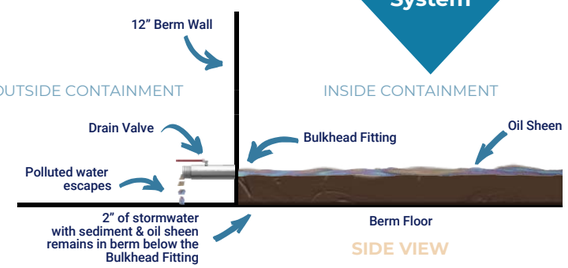
THE PROBLEM: Oily Stormwater Buildup inside Portable Secondary Containment.

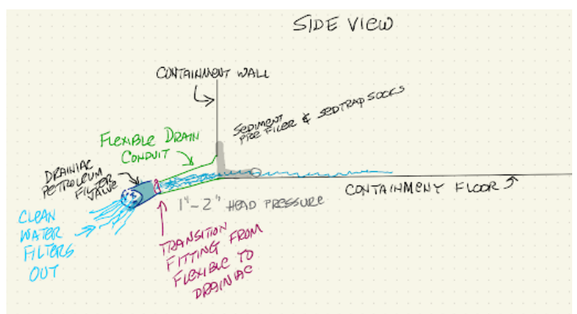
Did you ever look at a problem and say, "there's got to be a better way?" That's how it was for us with draining the last 2 inches of rainwater from portable secondary containment berms. We tossed around lots of ideas over the years. One was a berm liner that would wick water over the wall but leave oil inside. Another was a self-priming siphon.

THE NUDGE: A Customer's Compelling Need

In February, a client called. He was pushing us hard to come up with a solution NOW. (See case history on page 48). That evening, I was doodling on my iPad sketch program, and the concept unfolded right before my very eyes. It was like an invisible hand was guiding my stylus. In just a few minutes, I had a rudimentary drawing. I shot it off to our team and client.

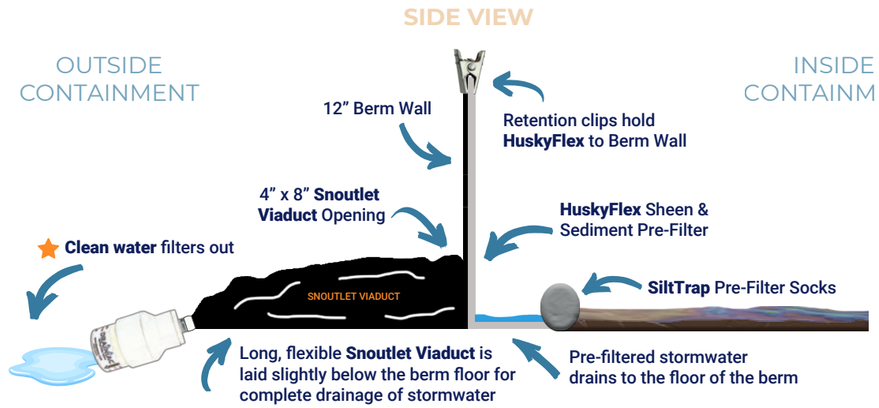
After a couple of days of refinement, our fabrication team built a prototype. The client loved it. Within six weeks, we had four finished HardyBerm contaminants with Snoutlet and Drainiac® fittings on the way to the customer.

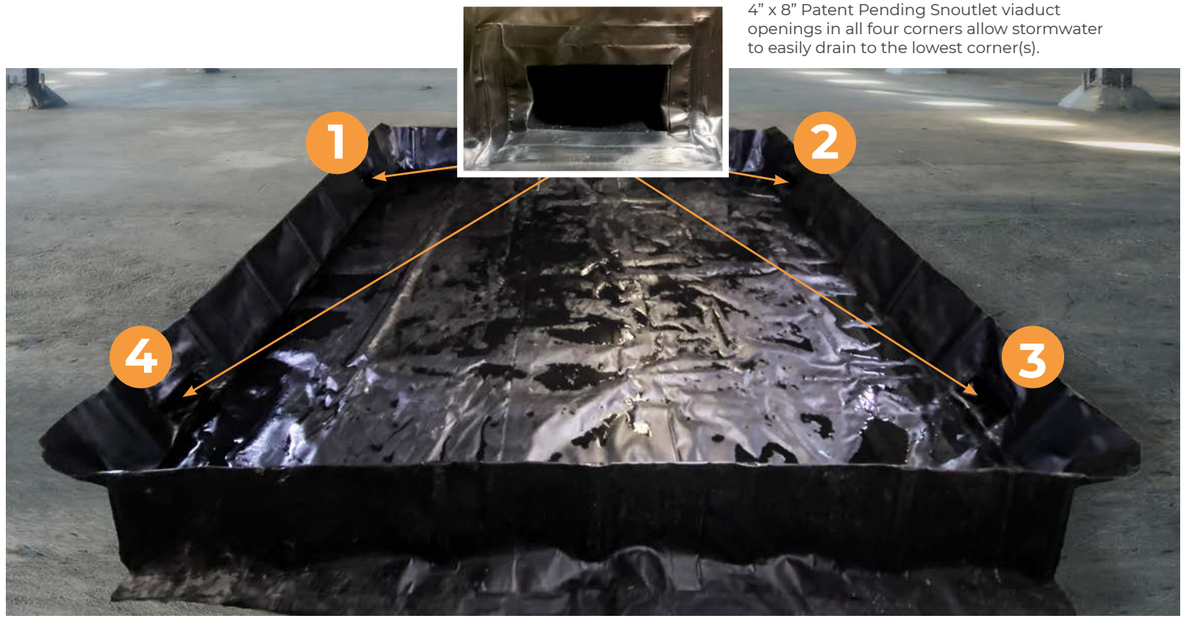




After years of thinking about a better way to drain portable containment berms, this concept sketch just flowed through my stylus in a matter of minutes. Funny how things come together.

New! HardyBerm Portable Secondary Containment System





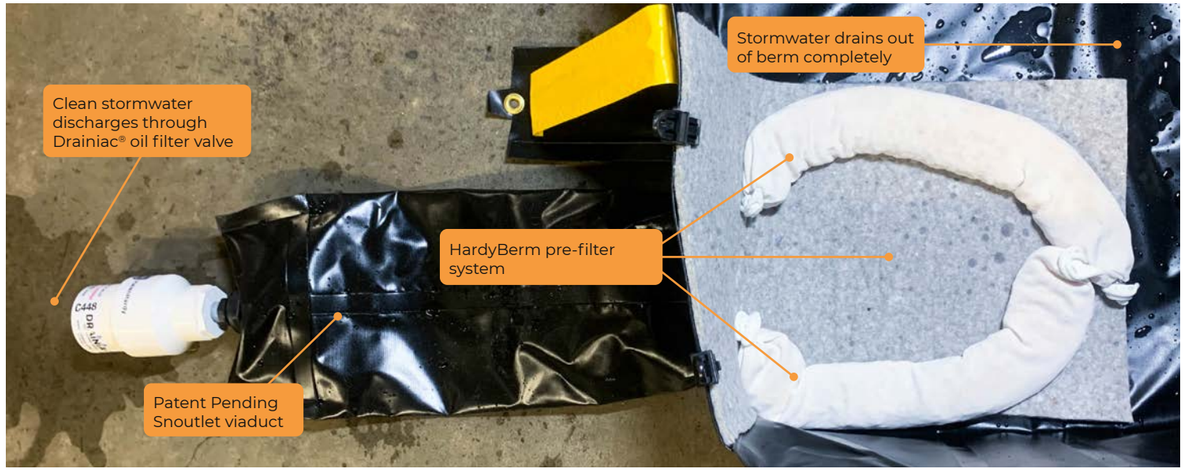
4" x 8" Patent Pending Snoutlet viaduct openings in all four corners allow stormwater to easily drain to the lowest corner(s).

STEP 1: Cover Patent Pending Snoutlet viaduct with **HuskyFlex pre-filter fabric.**

STEP 2: Clip **HuskyFlex** to berm wall and place **SlitTrap socks** on top.

STEP 3: Attach **Drainiac® oil filter valve** to the end of threaded **Snoutlet.**

STEP 4: Clean water filters through. The polymer inside swells up and shuts off the Drainiac® valve in case of a spill.



Ground Pads installed underneath the HardyBerm to protect from rock punctures.

Mobile transformers driven into HardyBerm portable containment system.

HALENHARDY® INNOVATION

The Story of the HardyBerm and the Snoutlet

In March of 2021, a large New England-based electric utility asked if we could help them overcome the problem of draining their portable secondary containment units and preventing oily sheen from escaping. Their old containment units had filled partially with rain and snow in the winter; and the water froze, trapping a large transformer. The client was skeptical if we could solve the problem but threw it in our laps anyway.

Listening to their frustrations, we went to work on developing the new HardyBerm with the Drainiac® Snoutlet to allow water to drain and be filtered all the way to the floor level.

A huge thank you to our customers for bringing us their problems and trusting us to develop a solution!

A universal problem with portable secondary containment is stormwater buildup inside the berm. And, manually draining the water is an expensive pain in the neck. To compound the problem, most portable berms have a 'bulkhead fitting' on one sidewall of the berm. Unfortunately, all bulkhead fittings are mounted about 2" above the berm floor. So, even when you open the drain valve, you're stuck with a couple of inches of water inside. It's a sloppy breeding ground for insects in warm weather and an ice rink in the winter.

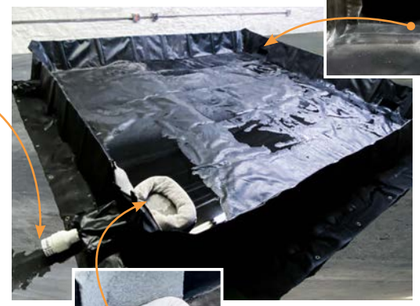
So, we sketched out a better idea. What if we could build in drain passages in all four corners of the berm. Unlike bulkhead fittings, these 'outlet ducts' could drain the rain the whole way down to the berm floor. And the water would run to the lowest corner. We designed the outlet duct to be long enough to extend a few feet beyond the berm wall. This enabled the operator to dig a little trench outside the berm so that the final drain would be BELOW the berm floor.

When we looked at the finished product, the outlet ducts looked like an elephant's snout. So, we dubbed it the 'Snoutlet' drain duct. To cap it all off, we installed Drainiac® Petroleum Filter Valves and Pre-Filter Systems on the downhill Snoutlet fitting(s). **The result...hassle-free draining and filtration.**

The HardyBerm System

Snoutlet: allows water to drain completely to the floor. One in each corner to ensure you always have a drain on the low side.

Drainiac® Petroleum Filter Valve: connects to Snoutlet and filters sheen from stormwater.



Prefilter System: prevents Drainiac® Filter Valve from clogging with debris and sediment.

Drainiac® Pre-Filter System for Above-Ground Containment

Includes 4 SiltTrap Socks, 8 HuskyFlex Pre-Filter Sheets, and 4 HardyClips.

HuskyFlex Pre-Filter Sheet	16" x 30" per sheet
Silt Trap Socks	3.5" x 1.5" x 24" per sock
max flow rate	110 gal per min
msrp	$179 per case

Drainiac® Petroleum Filter Valve for Portable Secondary Containment

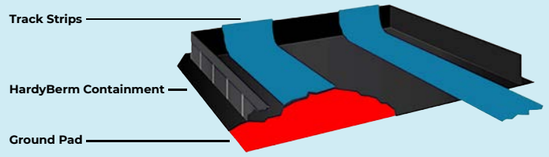
dimensions	3.5" Diameter x 6"L
sold as	each
inlet fitting	.75" male NPT threaded adapter
flow rate	2" to 1" Head Pressure: 56.6 gal./ hr. 1" to 0" Head Pressure: 41 gal./ hr.
msrp	$295

HARDYBERM OPTIONS

dimensions	spill capacity	msrp
6'W x 8'Lx 1'H	359 gal	$1,356
10'W x 10'L x 1'H	748 gal	$2,122
12'W x 36'L x 1'H	3,231 gal.	$4,682
12'W x 50'L x 1'H	4,488 gal	$6,416
12'W x 60'L x 1'H	5,385 gal.	$7,708

* Custom Sizes Available. Call 814-822-2004 for pricing.

ACCESSORIES



Ground Pads protect your HardyBerm from rock punctures. Track Strips absorb torture from tires. Talk to your Client Success Rep about details at 814-822-2004.

Want easy drive in and drive out access?

Try our Combo Berm option. Combines foam end caps with snap-up side walls, for ultimate convenience. Foam end caps can be continually driven in and out of without any modifications. Plus, they automatically rise in the event of an oil spill.

HalenHardy®

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FOR ORDERS & SUPPORT:

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Email us at **sales@halenhardy.com**

Order online at **www.halenhardy.com**

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100% GUARANTEE