

VMS

VAULT MAINTENANCE SYSTEM

*The Future of
Vault Dewatering*

What to do with Vault Water?



The standard operating procedure for the removal of water from vaults has been to evacuate the contaminated water by pumping it into the environment, or by removing it with a vacuum truck for off-site processing

Pumping into the Environment?

- Regulatory penalties
- Delays by city inspectors
- Negative public perception
- Possibility of Hazmat Response



Removing with Vacuum Truck?



- Time consuming
- Wasted man hours
- Expensive disposal costs
- Vacuum truck may not be available

State of the Art Technology

- Filters out oil, oil sheen, oil-borne contaminants, and suspended solids as fine as rust
- Configured as a portable, easy-to-use multi-layered filter sock
- Available with a quick connect fitting
- Available in a liquid-tight container to protect the sock prior to use and to contain any contaminated water after use and prior to disposal



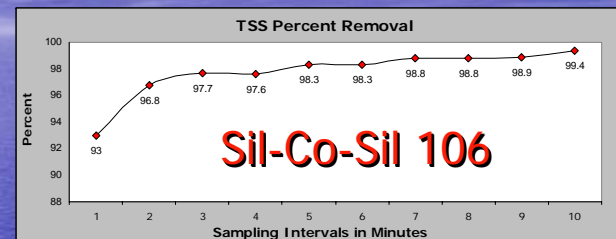
How does the **VMS** Work?



- Stage 1** - Removes Gross Oil and Sediments
- Stage 2** - Filters Out Fine Sediments
- Stage 3** - Filters Out Sub-Micron Particulates
- Stage 4** - Removes Oil Sheen

How well does the **VMS** work?

TSS Removal
99.4%



Oil & Grease Removal
Non-Detect

Oil & Grease EPA Method 1664				
Sample ID	Sample Volume ml	Wt Residue	Oil & Grease mg/L	Percent Removal
Initial Sample	500	1.136	2270 mg/L	Unfiltered
#1 Start - 5 min	500	>0.001	ND	100
#2 Mid - 7 min	500	>0.001	ND	100
#3 End - 10 min	450	>0.001	ND	100

How to use the **VMS**



1. Inspect the vault to make sure pumping with the **VMS** sock is appropriate.
2. Connect a submersible centrifugal pump to one end of the hose and the other end of hose to the **VMS** sock...

... next



3. Lay the **VMS** sock on a flat surface
4. Begin pumping
5. Monitor the pumping for:
 - a. Signs of oil sheen
 - b. Low flow (indicating the sock is filling with sediment)
 - c. Any leaks or equipment malfunction

What to do with a used **VMS** sock?

Recycle:

- Worm gear clamp
- Quick connect fitting
- Screw-top water-tight pail
- Sock for its fuel value through waste-to-energy incineration

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*Your **BMP** for
Vault Dewatering*



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