## DATCP Load Pad/Sump Assessments 2003

# Factors leading to DATCP's Testing

- Visual evidence of deteriorated materials
- Unexplained pesticide groundwater monitoring well detects at sites undergoing remediation
- Downgradient private wells impacted by pesticides
- Reports of observed sump failures from Commercial firms



These results are from a groundwater monitoring well located 50 feet down gradient of a leaking

sump:

EPTC	1500 ug/	

Atrazine 1600

Acetochlor 1500

Dimethanamid 5100

Alachlor 37000

Metolachlor 4600

Cyanazine 340

Simazine 64

Propazine 120

Chlorpyrifos 64

Pendimethalin 92



#### Results

- 67 Sumps/facilities tested. Sometimes more than one sump tested per facility
- 22 failed sumps
- Plans for expanded testing in 2004

## Maintenance Issues

- Lack of periodic cleaning and inspection.
- Lack of periodic sealing.
- Failure to mitigate the effects of frost and ice.

## Design Issues

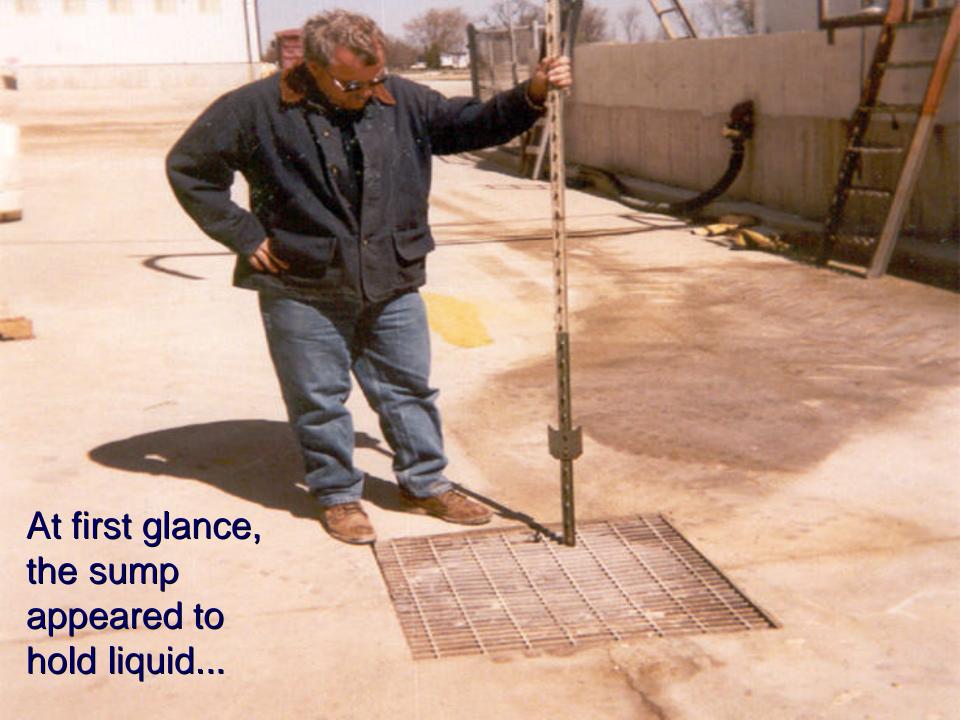
- Plumbing beneath pad floor
- Plastic drum/pail not surrounded by concrete
- Inadequate interface between pours of concrete or between stainless and concrete

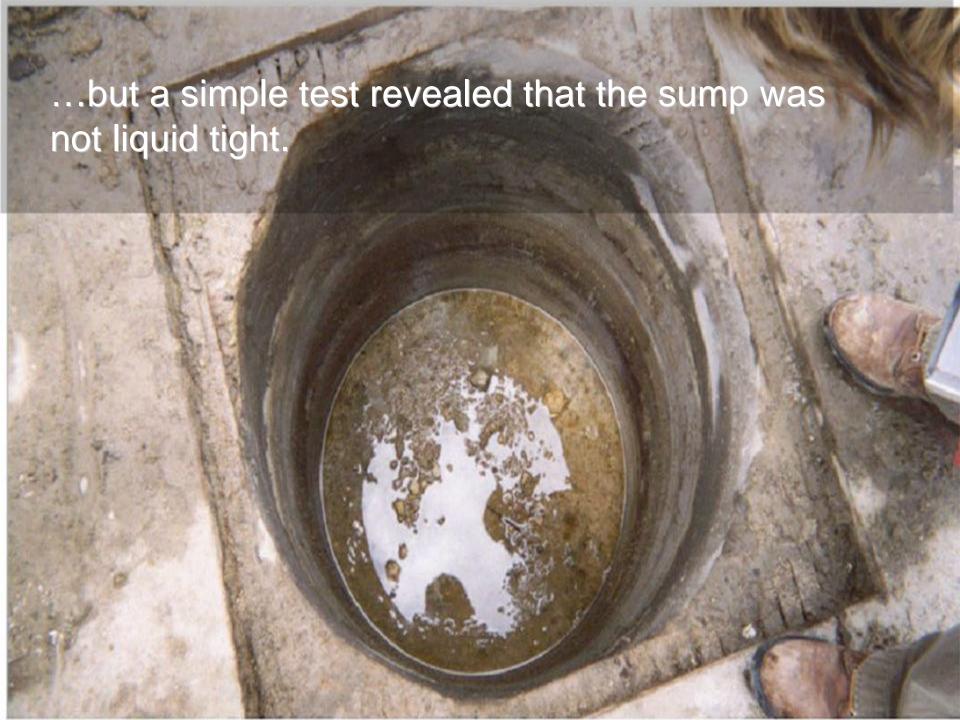


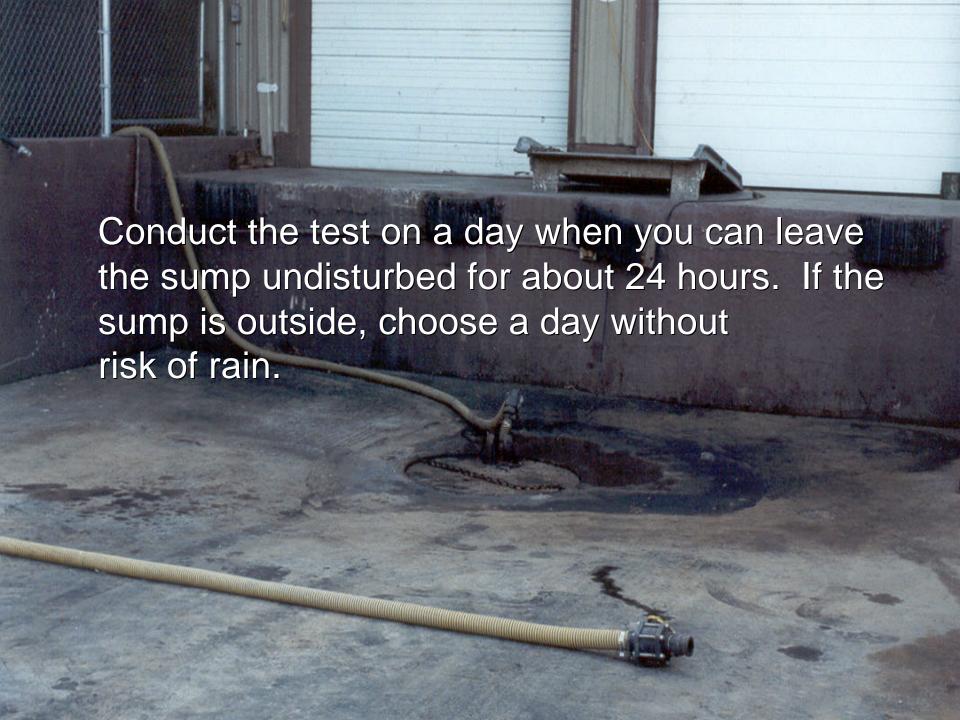
#### Testing Your Sump

Can you spot trouble at your facility? You can not always tell by visual inspection alone whether your sump leaks. Perform a simple hydraulic sump test to get a more certain answer. It is worth the time to avoid bigger problems.

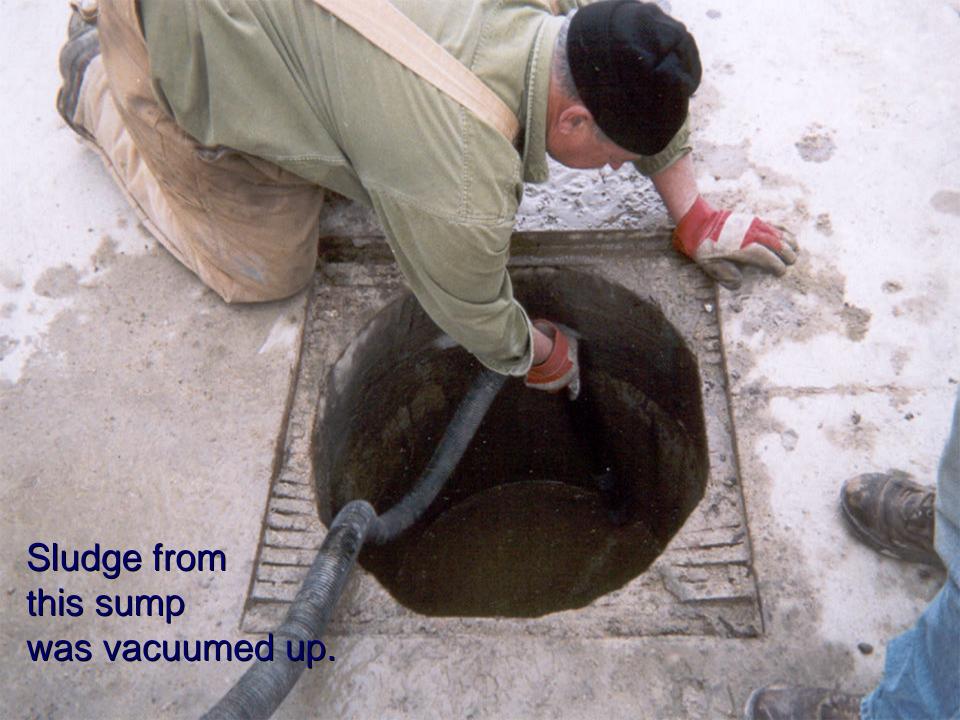
Have you ever wondered about sumps at your facility? The following slides demonstrate how you can determine if your sump leaks.



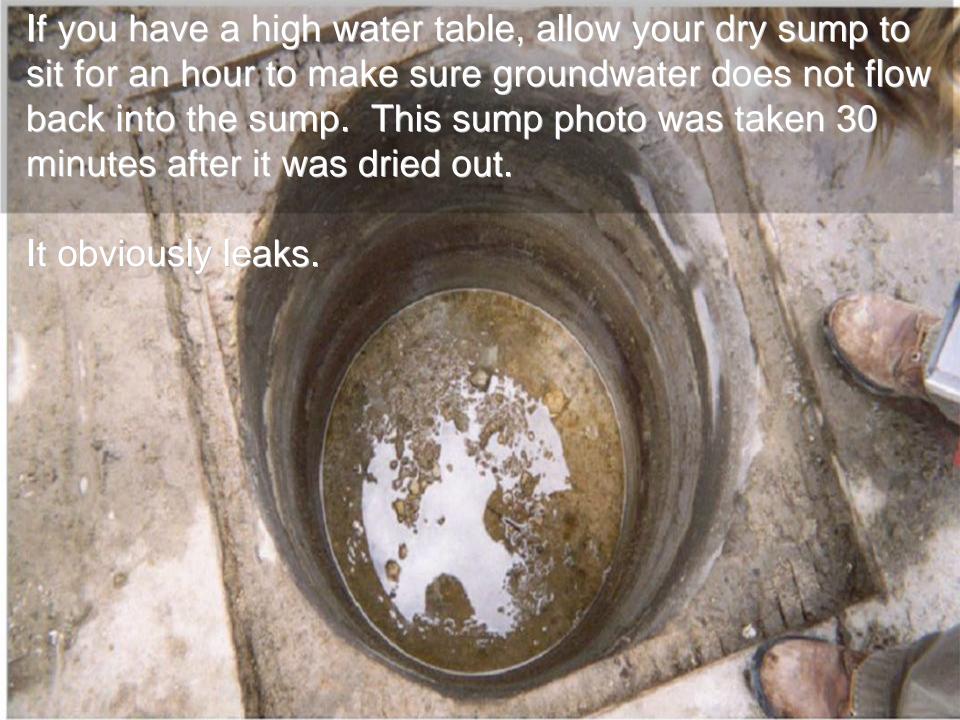


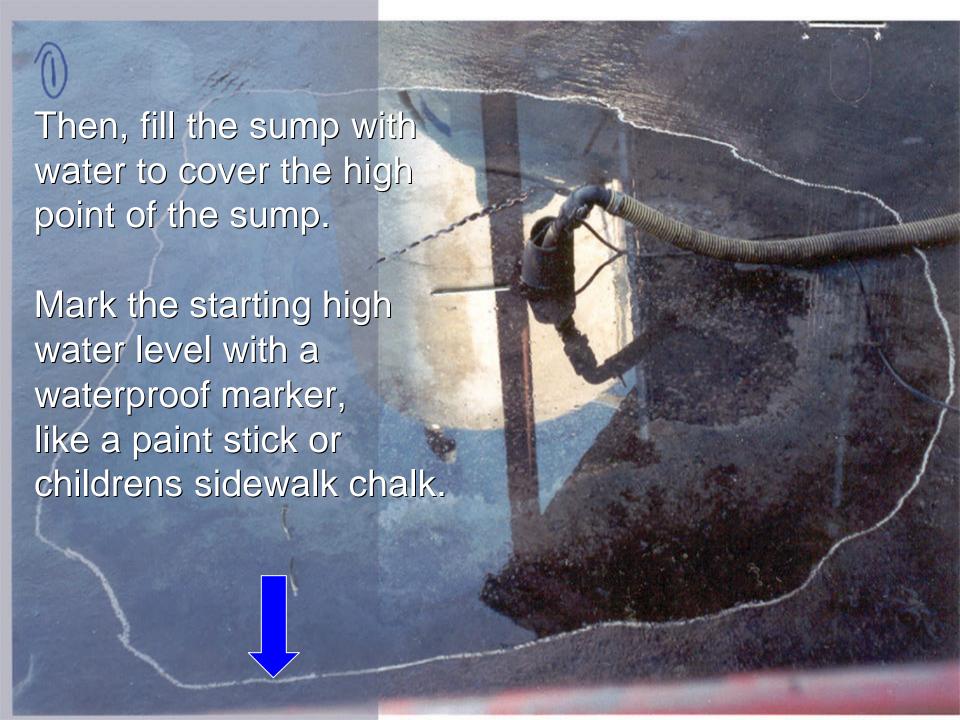






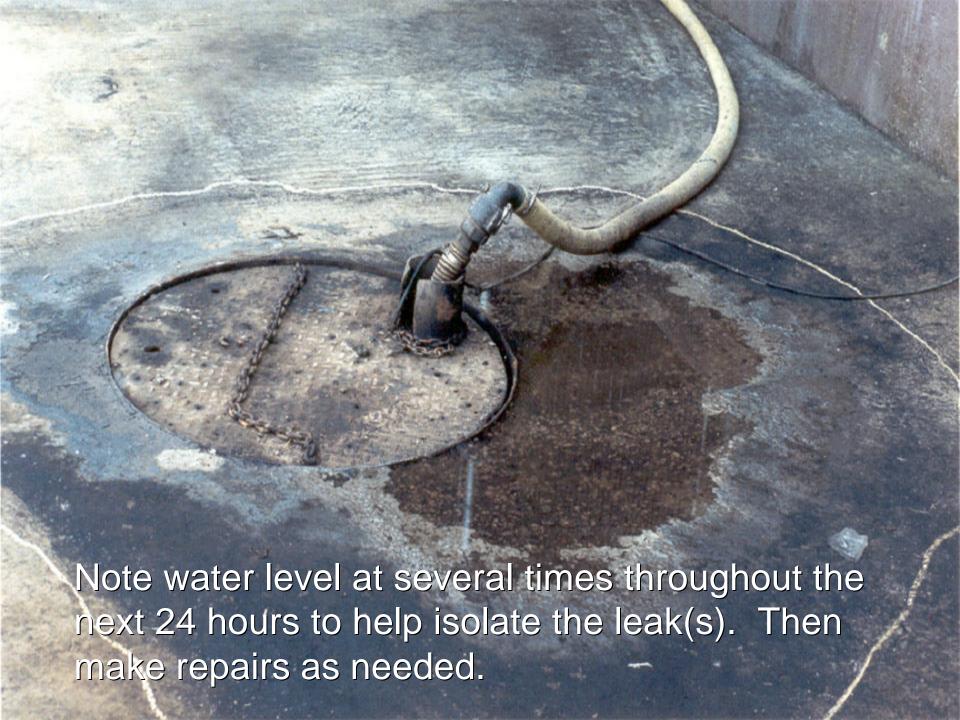


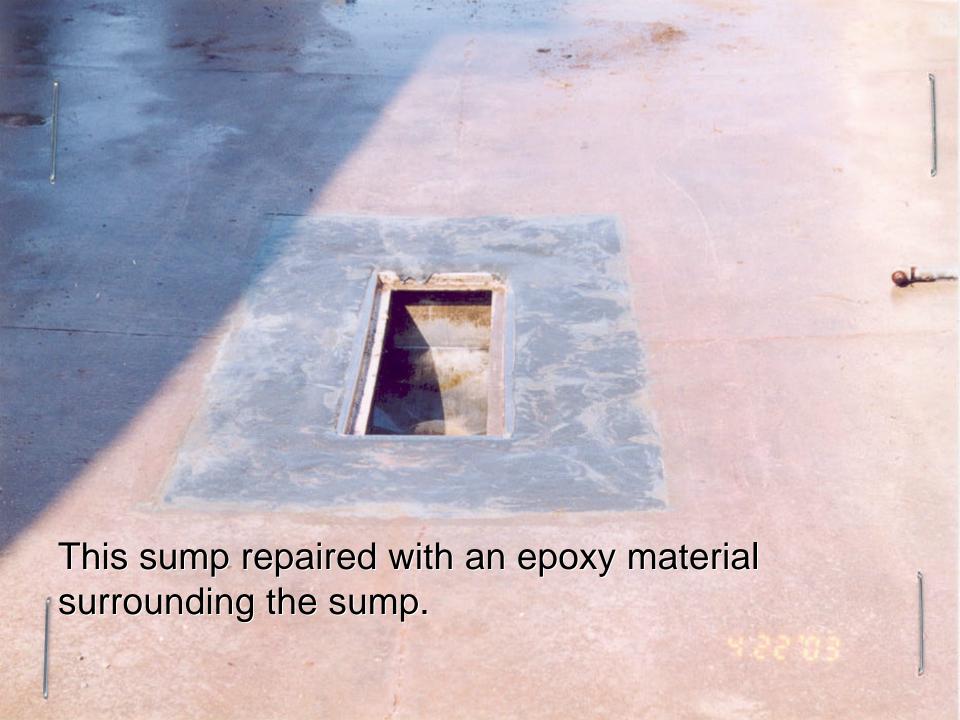






Consider tarping to minimize evaporation.









## Potential Rule Changes

- New pads/dikes must be DATCP-approved.
  Use of traditional sumps will be minimized
- Pre-construction soil sampling
- "Old" pads replaced after 15 years unless having leak detection or testing annually
- Notification to DATCP of major pad or dike changes, including tank changes

### Need Assistance?

- Visit the DATCP booth here at the conference.
- Visit the DATCP web site
- Matt Laak, DATCP, (608) 224-4518
- David Kammel, UW-Ext., (608) 262-9776
- Jim Schumacher, Agriliance, (651) 451-5240