

# 2010 Compliance Assistance Conference

How to Report  
When Things Go Wrong



Environmental  
Protection Agency

# Spills, When Things Go Wrong

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Emergency Response Unit

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Central District Office



Environmental  
Protection Agency

# Types of Spills

- Petroleum, heating oil, diesel fuel, gasoline
- Chemical, Transportation or Facility
- Mercury
- Fertilizer
- Pesticides
- Proprietary Chemicals
- Manure
- Other types of spills

# Home Heating Oil Spills



















# Diesel Fuel, Transportation







SpillFix®  
Containment Solutions, Inc.  
10000  
10000



# Facility Related Diesel Fuel Spills





# Recovery



# Bulk Gasoline Facilities







25-6



T-8





25-5



# Chemical Reporting



- When chemical release exceeds the Reportable Quantity (RQ)
- Quantities found on USEPA's Lists of Lists
  - Extremely Hazardous Substances (EHS)
  - CERCLA Hazardous Substances (HS)

# "List of Lists" Example

<http://www.epa.gov/ceppo/pubs/title3.pdf>

NAME	CAS/ 313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Hydrogen chloride (gas only)	7647-01-0	500	5,000	5,000	X		5,000



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1 2 3 4 5 6 7 8 10

Ammonia as  $\text{NH}_3\text{-N}$ , PPM (mg/L)

Cat. No. C-1510  
0040-2

STORE IN DARK

CHEMetrics

120 240 360 480 600 700 8

Ammonia (as Nitrogen), PPM (mg/L)

CAT. NO. C-1510B

STORE IN THE DARK

UNIVERSAL SAFETY DATA SHEET

24 Hour Emergency

Chemical Name

Revision Date

Revision Description

1. IDENTIFICATION

2. HAZARD IDENTIFICATION

3. COMPOSITION AND INFORMATION ON INGREDIENTS

4. FIRST AID MEASURES

5. FIRE FIGHTING MEASURES

6. ACCIDENT AND SPILL RESPONSE MEASURES

7. HANDLING AND STORAGE

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

9. PHYSICAL AND CHEMICAL PROPERTIES

10. STABILITY AND REACTIVITY

11. TOXICOLOGICAL INFORMATION

12. ECOTOXICOLOGICAL INFORMATION

13. DISPOSAL CONSIDERATIONS

14. TRANSPORT INFORMATION

15. REGULATORY INFORMATION

16. OTHER INFORMATION

17. TEST PROCEDURES FOR HAZARDOUS MATERIALS

18. ADDITIONAL INFORMATION

19.11-0

Ammonia

UNIVERSAL SAFETY DATA SHEET

24 Hour Emergency

Chemical Name

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# Verbal Notifications

- Within 30 minutes of discovery of release
- Local Fire Department
- Ohio EPA Director
  - Emergency Response Unit # 800-282-9378
- Local Emergency Planning Commission (LEPC)



# What To Report (Verbal)

1. The location of the release;
2. The chemical name or identity of any substance involved in the release and whether the substance is an extremely hazardous substance;
3. An estimate of the quantity of any substance released into the environment;
4. The time and duration of the release;
5. The environmental medium or media into which the substance was released;
6. Any known or anticipated acute or chronic health risks associated with the release and, if known to the informant, advice regarding medical attention necessary for individuals exposed to the substance released;

# What To Report (Verbal)

7. Proper precautions to take as a result of the release, including evacuation and other proposed response actions, unless that information is readily available to the community emergency coordinator pursuant to the plan of the district prepared under §3750.04 ORC;
8. The name and telephone number of the person or persons to be contacted for further information.

# Written Notification

- Within 30 days of the release, a report must be sent to:
  - LEPC
  - State Emergency Response Commission (SERC)  
c/o Ohio EPA



# What To Report (Written)

- When
- Location
- Product released
- Environmental impact
- Monitoring & duration
- Mitigation & containment actions
- Prevention measures
- Health risks
- Permit numbers
- Chronology
- Documentation
- Causes
- Economic impact (optional)

# Fertilizer











# Pesticides











# Elemental Mercury











# Manure Spills















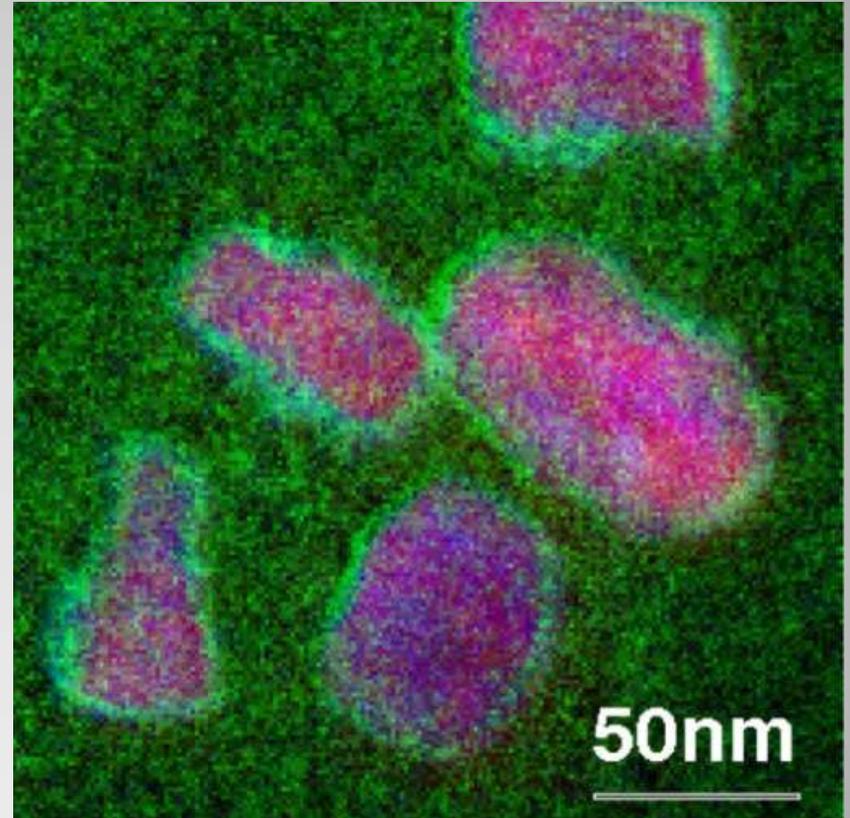




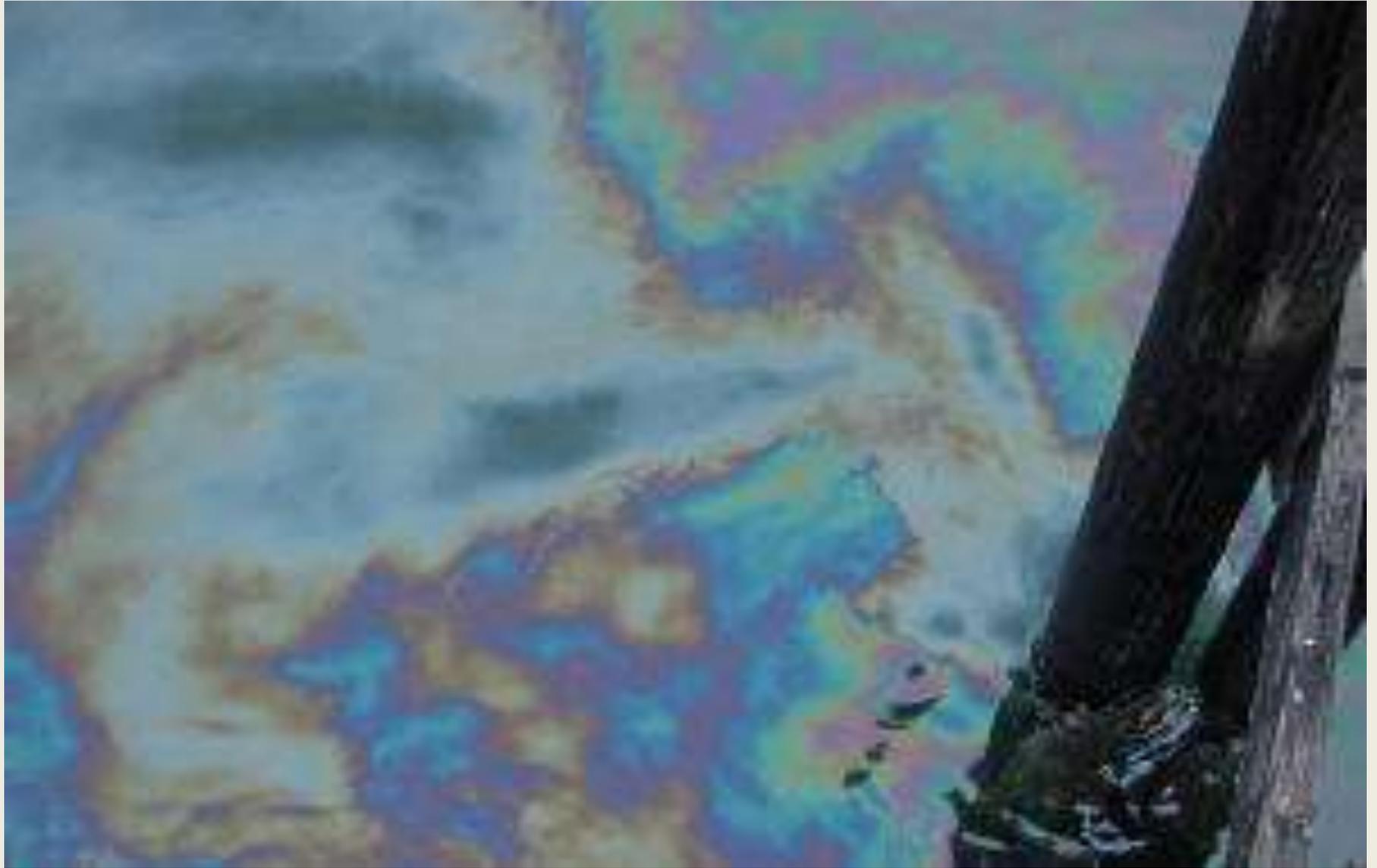


# “Here Come the Bugs”

- Bioremediation:  
Bacteria
  - Single-celled or non-cellular spherical or spiral or rod-shaped organisms lacking chlorophyll that reproduce by fission; important as pathogens and for biochemical properties; taxonomy is difficult; often considered plants



**“It’s a SHEEN!”...or is it?**



# Pollen

Pollen from plants (like pine & cottonwood) can be found in late spring and in summer floating on and in water.



Pollen in and on water



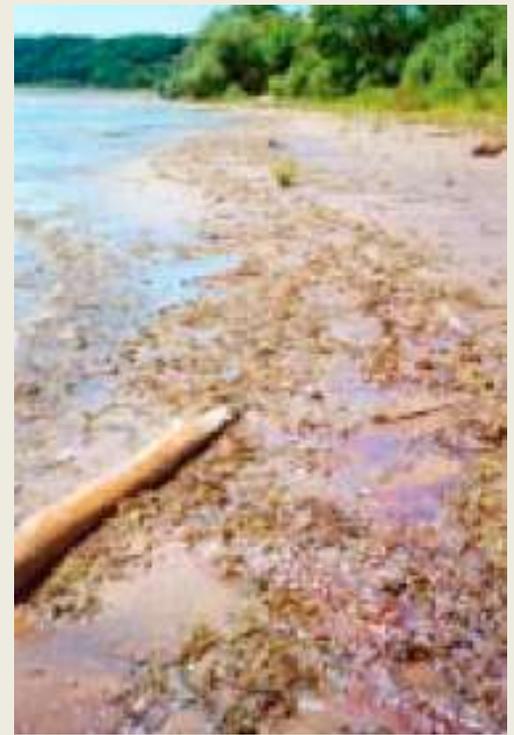
Pollen washing ashore

# Algae "Allergy"





# Bacteria



# Some Myths

# “EPA ERT will clean it up”

“Aren’t **YOU**  
going to clean  
this mess up”

“I’m good, but  
not **THAT**  
good”



**“The FD will clean it up”**



**“You must be 40 hour HAZWOPER trained to clean up a spill”**



# Where Can I Get Help?

## Ohio EPA

<http://www.epa.ohio.gov>

Right-To-Know (Spill Reporting)

<http://epa.ohio.gov/dapc/serc/index.aspx>

Ohio EPA District Offices

**USEPA** <http://www.epa.gov/>

**Questions?**