



# Connecticut Department of Energy and Environmental Protection



# The Resilient Dry Cleaning Business

July 12, 2017

Connie Mendolia & Mary Sherwin - CT DEEP

DECD meeting

Funded in part by a pollution prevention grant from the USEPA



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# Resilience is ...being ready

It's the ability to:

- anticipate,
- prepare for, and
- adapt to changing conditions; and
- respond to, and recover rapidly from disruption.



# Did Any of these Connecticut Storms Affect Your Business? How?

- 2013: Nemo Blizzard
- 2012: Super Storm Sandy
- 2011: Winter Storm Alfred & Tropical Storm Irene
- June 2010: Tornado



# Flooded Shopping Plaza





# Flooded Laundry, Floating Tank



Image by Rutland Herald via <http://rutlandherald.typepad.com/.a/6a00d83452358f69e2015434f942a8970c-800wi>

# Flooded Dry Cleaner



# Overturned Tractor Trailer



Image by KFOR.com Channel 4 via  
<http://kfor.com/2017/04/21/semi-truck-carrying-oil-field-chemicals-overturns-after-driving-into-deep-water/>

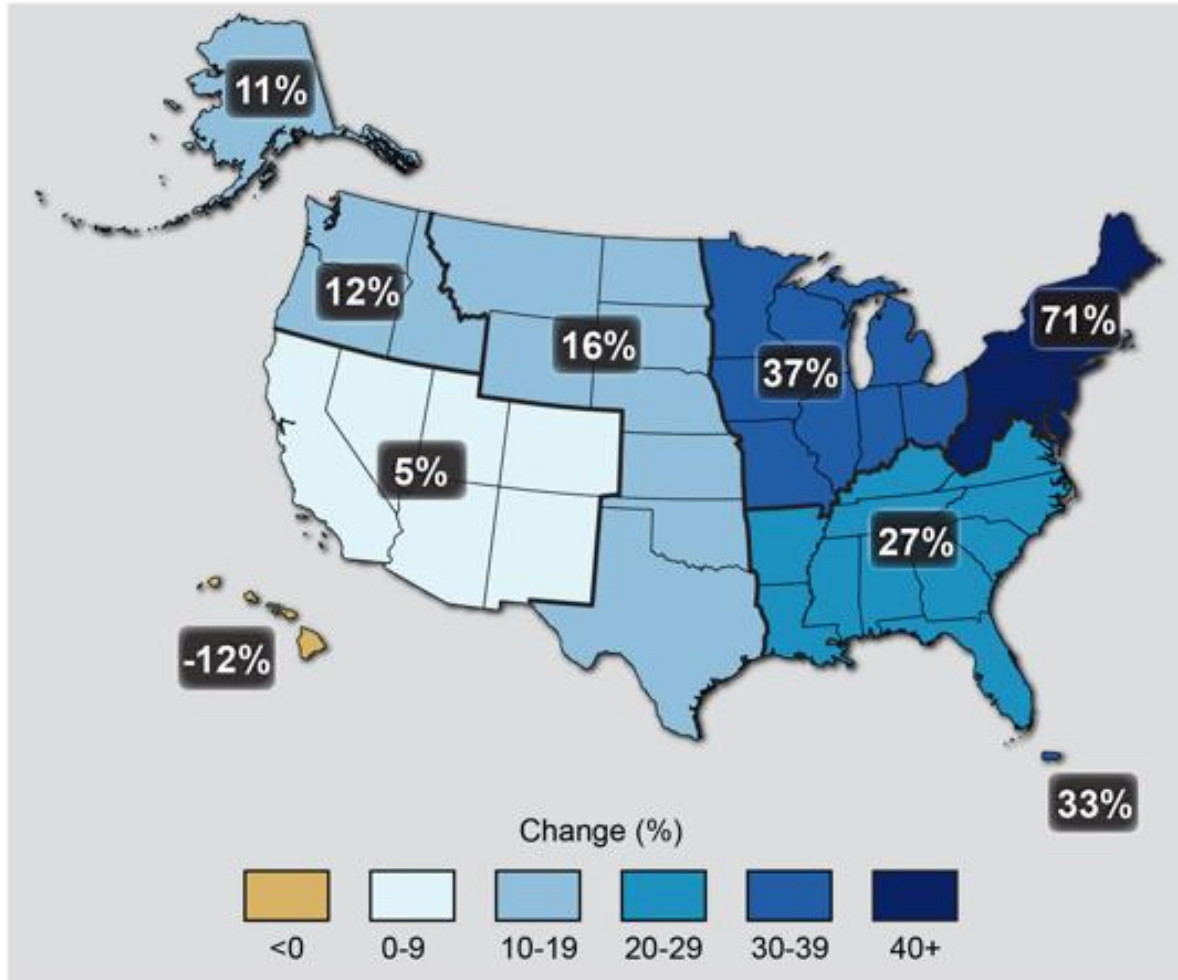


# Risk of Chemicals Released from Businesses



Image by Shore Publishing via  
<https://www.zip06.com/apps/pbcsi.dll/bilde?Site=Z6&Date=20170314&Category=NWS01&ArtNo=170319959&Ref=AR&MaxH=500>

## Observed Change in Very Heavy Precipitation



From National Climate Assessment 2014 Report

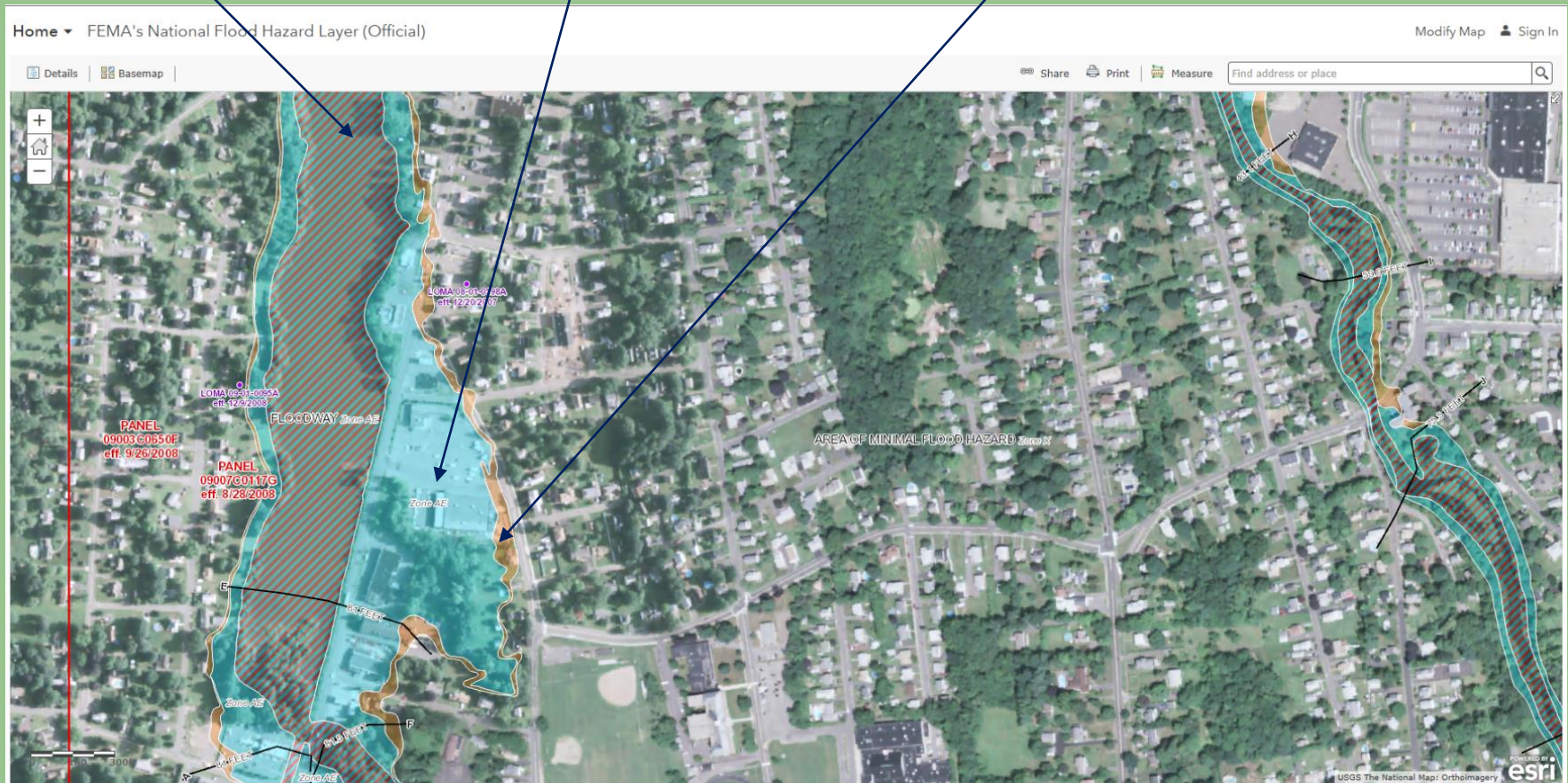


# FEMA Flood map: South Main St, Middletown

\*Floodway  
(River Channel)

100-year floodplain

500-year floodplain



\*Floodway is part of the 100-year floodplain

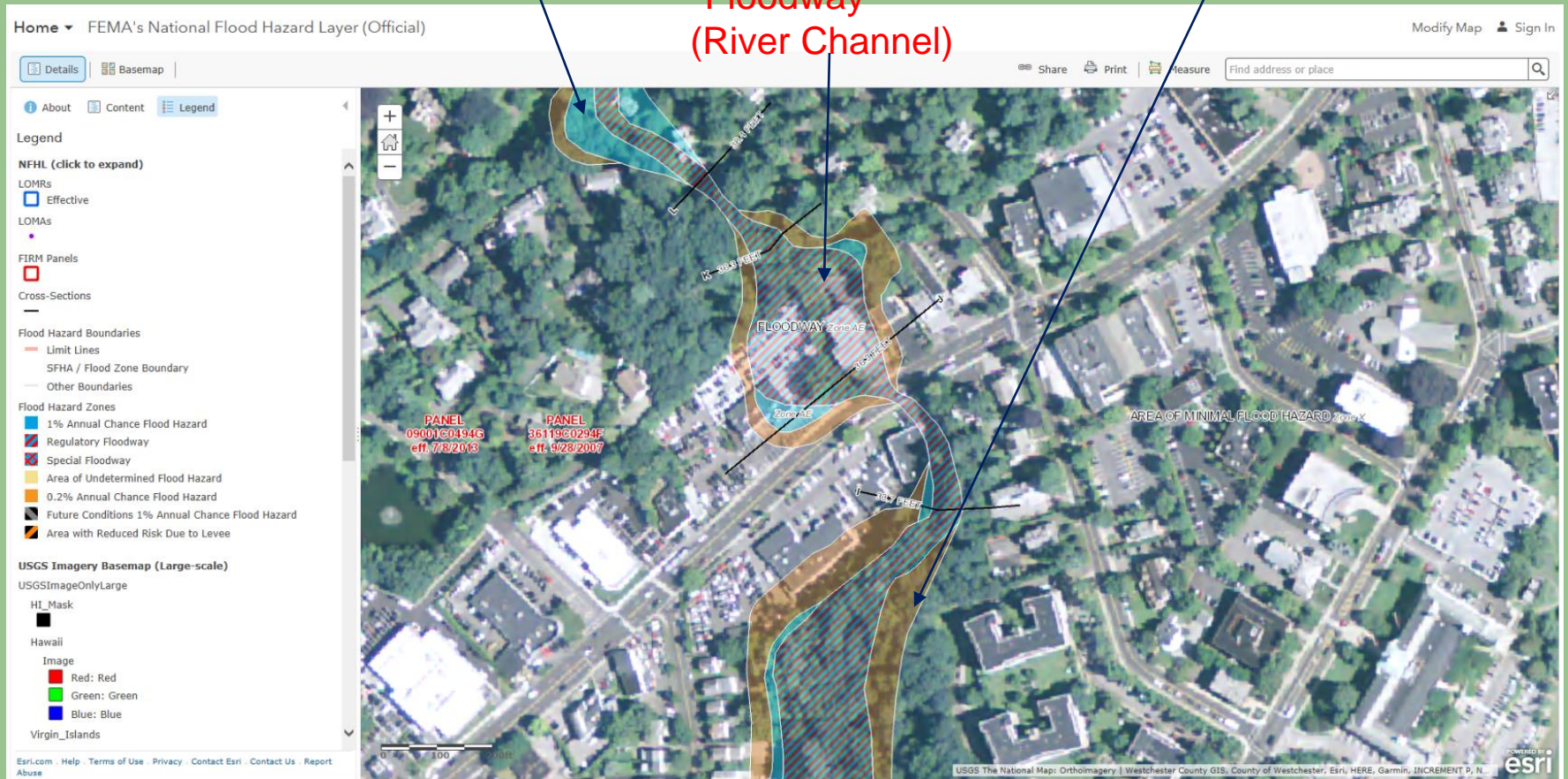


# FEMA Flood Map: Putnam Ave, Greenwich

100-year floodplain

500-year floodplain

\*Floodway  
(River Channel)



\*Floodway is part of the 100-year floodplain

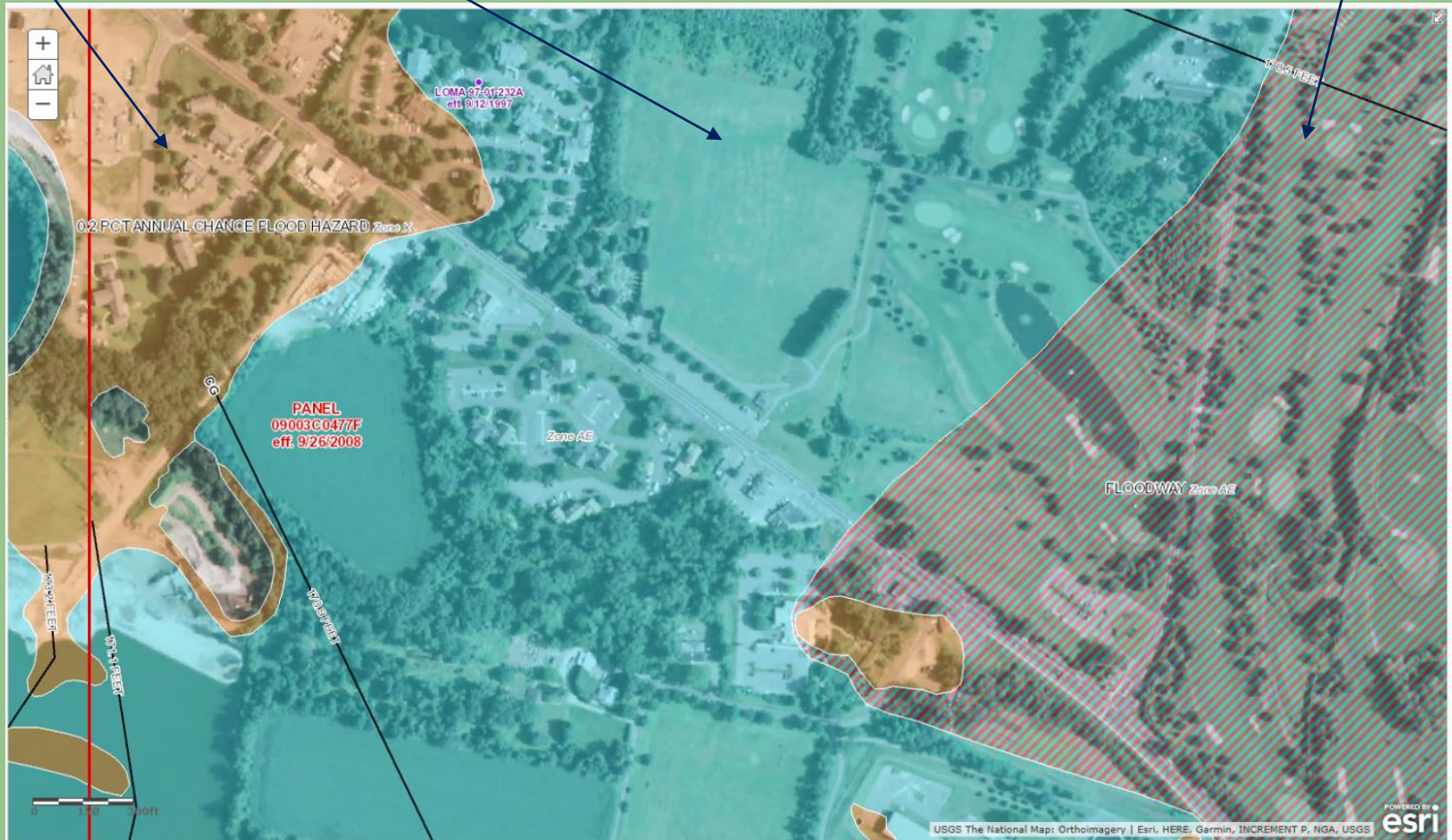


# FEMA Flood Map: Farmington Ave, Farmington

500-year  
floodplain

100-year floodplain

\*Floodway  
(River Channel)



*\*Floodway is part of the 100-year floodplain*



# What kind of damage can a business sustain from a storm event?



# Costly Clean-Up



Image by abc news via

[http://a.abcnews.com/images/US/RT\\_louisiana\\_cf\\_160822\\_mn\\_4x3t\\_384.jpg](http://a.abcnews.com/images/US/RT_louisiana_cf_160822_mn_4x3t_384.jpg)



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# Chemical Spill



Location: Along Tods Driftway at Greenwich Point Park in Greenwich, CT



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# Ways to Best “Weather the Storm”



# Prevent Problems with Chemicals & Waste

## Spot Cleaner area



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# Prevent Problems with Chemicals & Waste

## Spot Cleaners



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# Prevent Problems with Chemicals & Waste

## Keep machine doors closed



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# Prevent Problems with Chemicals & Waste

## Label all chemicals



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# Prevent Problems with Chemicals & Waste

Check for & fix leaks (gaskets, seals, valves)  
And keep records



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# Prevent Problems with Chemicals & Waste: Still Bottoms – Empty into Waste Drum





# Prevent Problems with Chemicals & Waste:

Label waste drums & keep tops closed!



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# Bermed Storage Area



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# Prevent Problems with Chemicals & Waste:

- Clean out lint traps and replace filters
- Put in waste container ASAP





# Keep good records of what you buy, use and dispose

## What chemicals, hazardous & other materials are on-site?

- Purchase records
- Haz waste manifests
- Daily log chemical used
- Weekly inspections

[Company Name] **PURCHASE ORDER**

[Street Address] [City, ST ZIP] [Phone: (000) 000-0000] [Fax: (000) 000-0000] [Website]

DATE 9/17/2015  
PO # [123456]

VENDOR		SHIP TO	
[Company Name]	[Name]	[Company Name]	[Name]
[Contact or Department]	[Street Address]	[Street Address]	[Street Address]
[Street Address]	[City, ST ZIP]	[City, ST ZIP]	[City, ST ZIP]
[Phone: (000) 000-0000]	[Phone]	[Fax: (000) 000-0000]	[Phone]

REQUISITIONER	SHIP VIA	F.O.B.	SHIPPING TERMS	

ITEM #	DESCRIPTION	QTY	UNIT PRICE	TOTAL
[23423423]	Product XYZ	15	150.00	2,250.00
[45645645]	Product ABC	1	75.00	75.00
				-
				-
				-
				-
				-
				-
				-
				-
				-
				-
				-
				-
			SUBTOTAL	2,325.00
			TAX	-
			SHIPPING	-
			OTHER	-
			<b>TOTAL</b>	<b>\$ 2,325.00</b>

Comments or Special Instructions

If you have any questions about this purchase order, please contact [Name, Phone#, E-mail]

Please print or type (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST 1. Generator ID No. GAD004157418 2 Page of 3

5. Generator's Name and Mailing Address  
Acme Chemical Manuf.  
PO BOX 17221  
West Palm Beach, TX 33416  
Generator's Phone: 111 111-1111 Attn: Safety Manager

6. Transporter 1 Company Name  
AGGREGATE HAULERS

7. Transporter 2 Company Name

8. Designated Facility Name and Site Address  
SOUTHDOWN ENV SYS. (ALLW  
101 S. PARK DRIVE  
PO BOX 12345  
MT. PLEASANT, OK 38474  
Facility's Phone: 615 379-3215

9a. HM	Sb. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))
X	UN0171, Waste Ammunition, illuminating with or without burster, expelling charge or propelling charge, 1.2, PG II Waste Profile # CH4134134F
X	UN0171, Waste Ammunition, illuminating with or without burster, expelling charge or propelling charge, 1.2, PG II Waste Profile # CH4134134F
X	WASTE ASBESTOSES, 9, NA2212, PG III, NA2212, PG III, ( )
X	WASTE HAZARDOUS SUBSTANCE, LIQUID OR SOLID, Z (PCB), ORM-E, NA9188, ( ) PCB XXXXXX Line 4 - last line

14. Special Handling Instructions and Additional Information  
Call Alcon Manufacturing Company in case of an emergency  
Phone: (800) 433-0988 - Regional Dispatcher

4)pch waste profile 1234



# Prevent Problems with Chemicals & Waste

## Reduce or Eliminate Them

- Increase use of Professional Wet Cleaning
- Substitute Wet Cleaning for Other Solvent Use
  - Rely on non-hazardous detergents and spot cleaners



# Emergency Contingency Plan

Include:

- Emergency coordinator
- Emergency response equipment (absorbents, gloves or other protective equipment)
- Contact phone numbers for Emergency Coordinator, local police, fire and emergency medical service (EMS), and spill contactor(s)
- Post in hazardous waste storage areas & near phone





# Benefits of Being Prepared

- Avoid inventory loss & damage to equipment
- Avoid expensive special clean-ups
- Recover quickly, re-open & get back to business
- Reduce liability and fines from widespread chemicals contamination

**Result: Save \$**



# Questions?

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Web: [ct.gov/deep/p2](http://ct.gov/deep/p2)

