

WHY ARE YOU HERE?

- Required by law and NH Solid Waste Rules.
- Build your resume & accumulate professional development hours.

WHY THIS WORKSHOP?

P2 & HHW

- Provide you with more information on HHW
- Introduce the concepts of preventing pollution
- Offer suggestions on how to educate customers on making better choices



TODAY'S AGENDA

- What is P2?
- CD Cover Game
- How to Implement P2 at SW Facilities
- What to do with your Gifts?
- Climate Change? Why be prepared?
- Educating Your Customers on HHW
- Alternatives to "Off the Shelf" Products



New Hampshire Pollution Prevention Program



What is Pollution Prevention?





- Free
- Confidential
- Non-enforcement
- Pollution prevention and compliance assistance program available to all NH businesses, institutions, municipalities and agencies.

Pollution Prevention

Reducing or eliminating waste at the source...

Instead of managing that waste after it is generated.

Pollution Prevention Hierarchy



Dispose





ALUMINUM CAN RECYCLING



Is recycling bad?

Because it is a manufacturing process that generates waste?



Recycling is good!

- Making a can from a can saves energy and resources.
- 80% of the energy that goes into making a can comes from the extraction of the ore.



Reuse





Reuseeven better than Recycling

Reusing a product eliminates the need to manufacture a new product.





Pollution Prevention questions:

- •What's the <u>real</u> cause of the waste being created?
- •Can the step or process simply be eliminated?
- •Is there a non-toxic or less toxic material that can be used, instead?
- Is there a way the process can be changed to make less waste or a less toxic waste?
- •Can the waste be reused or recycled?

What can you do?



Education



Swap Shop





Save money!!!



What is Pollution Prevention?

Reducing or eliminating waste at the source by:

- promoting the use of **non-toxic** or less-toxic substances,
- implementing **conservation** techniques,
- and re-using materials rather than putting them into the waste stream.

Questions???

Contact Information: NHPPP@DES.NH.GOV

Melissa Zych 603-271-6460 <u>melissa.zych@des.nh.gov</u>

Cynthia Walthour 603-271-2956

cynthia.walthour@des.nh.gov



Implementing Pollution Prevention Strategies at Solid Waste Facilities

Tara Mae Albert, M.S. SWOT Coordinator



Process Flow Diagram



Simple Process







Steps to Reduce the "unwanted" Outputs

- Shake out the dirt
- Empty Pockets
- Spot Check

Steps to Reduce the "unseen" Wastes

- Full load of clothes
- Cold Water
- Use the appropriate amount of detergent

"It's the LAW!"

- Solid Waste Facilities are permitted by NHDES
- NHDES is authorized to permit by RSA 149-M (LAW)
- RSA 149-M states that NH's goal is to achieve 40% weight diversion of SW landfilled or incinerated per capita by 2000.





Waste Management Hierarchy



Process Flow



Transfer Station



Waste In

- MSW
- Electronics
- "Good Stuff"
- HHW
- Used Oil
- Recyclables
- Putrescible



"Process"

- Swap Shop
- Hopper
- Metal Pile
- Sharps
- Separated Recyclables
- Compost
- Landfill



- MSW:
 - Disposal
 - Customer's Car: Reuse
 - Plastic, metal, glass, etc.: Recycling
 - Compost

Rethink your Options

The point is to get the stuff out from the landfills and incinerators into more preferred methods of managing our wastes.



What Can YOU Do?









Educate Your Fellow Operators

Partner with Your BOS or Managers

Educate Your Customers

Implement the Changes



What to do With Your (HHW) Gifts

Dean Robinson NH Department of Environmental Services

August 24, 2016









an official NEW HAMPSHIRE government website



AAA

TOWN	ORGANIZER	WEB PAGE	CONTACT	GPS	LOCATION
TOWN	ORGANIZER	RELATED WEB-PAGE	CONTACT	GPS LOCATION	ADDRESS OF COLLECTION
Berlin	Androscogin Valley RRDD	http://www.uvlsrpc.org/project/Household_Hazardous_Waste_Collections_9/	603-752-3342	44.511885,-71.239046	100 West Milan Road, Berlin
Albany	Conway	http://conwaynh.org/public-works/	603-447-3811 X23	44.011035,-71.059216	755 East Conway Road, Center Conway
	Lakes Region Planning Commission	http://www.lakesrpc.org/services_hhw.asp	603-279-8171	43.444507,-71.477398	Belmont Fire Station, 14 Girmanton Road, Belmont
Alexandria	Lakes Region Planning Commission	http://www.lakesrpc.org/services_hhw.asp	603-279-8171	43.444215,-71.65117	Street, Franklin
	Lakes Region Planning Commission	http://www.lakesrpc.org/services_hhw.asp	603-279-8171	43.550982,-71.403269	Road, Gilford
	Lakes Region Planning Commission	http://www.lakesrpc.org/services_hhw.asp_	603-279-8171	43.670518,-71.505302	Hill Road, Meredith
	Lakes Region Planning Commission	http://www.lakesrpc.org/services_hhw.asp	603-279-8171	43.598388,-71.722208	NH DOT Highway Garage, 100 Ayers Island Road, Bristol
	Lakes Region Planning Commission	http://www.lakesrpc.org/services_hhw.asp	603-279-8171	43.534371,-71.465100	Laconia Public Works Garage, 27 Bisson, Ave., Laconia
	Lakes Region Planning Commission	http://www.lakesrpc.org/services_hhw.asp_	603-279-8171	43.752582,-71.151261	Ossipee Town Highway Garage, 55R Main Street, Ossipee
	Lakes Region Planning Commission	http://www.lakesrpc.org/services_hhw.asp_	603-279-8171	43.723545,-71.422527	Moultonborough Town Highway Garage, 68/30 Highway Garage Road, Moultonborough
Alton	Wolfeboro	http://www.wolfeboronh.us/Pages/WolfeboroNH_Hazardous/index	603-651-7530	43.632247, -71.206740	Lakes Region Household Hazardous Product Facility, 404 Beach Pond Road Wolfeboro
Alton	Wolfeboro	http://www.wolfeboronh.us/Pages/WolfeboroNH Hazardous/index_	603-651-7530	43.632247, -71.206740	Lakes Region Household Hazardous Product Facility, 404 Beach Pond Road Wolfeboro
Amherst	Nashua RPC	http://www.nashuarpc.org/hhw/	603.424.2240	42.748327,-71.503358	Nashua Public Works Garage, 9 Stadium Drive, Nashua
	Lakes Region Planning Commission	http://www.lakesrpc.org/services_hhw.asp	603-279-8171	43.444507,-71.477398	Belmont Fire Station, 14 Gilmanton Road, Belmont
	Lakes Region Planning Commission	http://www.lakesrpc.org/services_hhw.asp_	603-279-8171	43.444215,-71.65117	Franklin Public Works Garage, 43 West Bow Street, Franklin
	Lakes Region Planning Commission	http://www.lakesrpc.org/services_hhw.asp_	603-279-8171	43.550982,-71.403269	Gilford Public Works Garage, 55 Cherry Valley Road, Gilford
	Lakes Region Planning Commission	http://www.lakesrpc.org/services_hhw.asp_	603-279-8171	43.670518,-71.505302	Mededith Public Works Garage, 15 Jenness Hill Road, Meredith
Andover	Lakes Region Planning Commission	http://www.lakesrpc.org/services_hhw.asp	603-279-8171	43.598388,-71.722208	NH DOT Highway Garage, 100 Ayers Island Road, Bristol
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Achland	Pemi Baker SWD	Unavailable	pemibakerswd@yahoo.cor	44.282156,-71.800654	1213 Mt. Eustis Road, Littleton





Latex Paint Waste Management in New Hampshire

Household Hazardous Waste Collection / Solid Waste Management Facilities / Paint Recycling Programs - Paint Reuse Exchange

Many New Hampshire Hazardous Waste Collection agencies provide recycling services and waste collection events of recyclable products. The U.S. Environmental Protection Agency calculates that annually nearly 70 million gallons of paint are left over in the United States. Local New Hampshire communities and municipal agencies have historically managed leftover paint waste either through household hazardous waste (HHW) facilities or through solid waste management programs. Neither of these paint waste disposal methods resolve the increasing costs of disposal and landfill environmental hazards.

At GreenSheen, they have developed a cost-effective, environmentally sound, and feasible latex paint waste reduction program that can be applied to New Hampshire city and county landfill and Solid Waste Management Facilities.

GreenSheen operates latex paint waste management programs for municipal communities in New Hampshire providing disposal options that are environmental friendly and cost-effective recycling. They offer New Hampshire municipal agencies the opportunity to reduce their solid waste disposal and landfill costs with the added benefit of reducing their yearly paint procurement expenses. The paint recycling and reuse program recycles paint waste collected from households and remanufactures the leftover paint into new paint for local residents and municipal use. The program turns the thousands of tax dollars which are spent each year disposing of latex paint into cost-savings for New Hampshire communities and taxpayers.

Efficient recycling reuse programs in New Hampshire keeps paint waste out of county landfills. The Three R's: Reduce, Reuse and Recycle. Reuse

st Method

CONTRACTORS FOR HOUSEHOLD HAZARDOUS WASTE COLLECTIONS PROJECTS 2016-2017

Clean Harbors 42 Longwater Drive Norwell, MA 02061 (781) 792-5000 NH Field Service (603) 224-6626 www.cleanharbors.com	Clean Venture 133 Leland Street Framingham, MA 01702 Phone: (508) 872-5000 Fax: (508) 875-5271 www.cyclechem.com	Care Environmental 10 Orben Drive Landing, NJ 07850 (800) 494-2273 www.careremediation.com Local Office: 973-398-5100	Enpro Services, Inc. 709 Keith Avenue Pembroke, NH 03275 603-410-11501-800-966-1102 www.enpro.com
Triumverate Environmental 61 Inner Belt Road Somerville, MA 02143 (888) 834-9697 www.triumvirate.com	New England Disposal Technologies, Inc. 83 Gilmore Drive Sutton, MA 01590 190 East Main (Route 20) Westfield, MA Office: 508-234-4440 Fax: 508-234-4441 www.NEDT.org	APT Environmental Services, Inc. P.O. Box 162 Milton, VT 05468 (802) 893-8281 http://aptsol.net	Veolia Environmental Services 398 Cedar Hill St Marlborough, MA 01752 (800) 354-2382 www.veoliaes.com
Complete Recycling Solutions 1075 Airport Road Fall River, MA 02720 508-402-7714 sales@crsrecycle.com www.crsrecycle.com	Cyn Environmental 8 Progress Drive Dover, NH 03820 603-749-4969 http://www.cynenv.com	Tradebe Environmental Services 410 Shattuck Way Newington, NH 03801 888-276-0885 http://www.tradebeusa.com	US Ecology 185 Industrial Road Wrentham, MA 02093 (800) 426-9878 Office (508) 965-4820 Cell (508) 384-6028 Fax https://www.usecology.com/Locat ions/All-Locations/US-Ecology- Boston.aspx

1) NHDES Web Page (other towns) 2) LRHHPF (Flyer) 3) Paintwastedisposal.com (Web Page) 4) Give it away or use it up 5) Private Haulers (Hand Out)

Overview of HHW & Practical Approaches to Alternative Products

Dean Robinson NH Department of Environmental Services

August 24, 2016







5,600

180





Most Dangerous Items in Your Home

Hydrocarbons & Solvents

- Agitation
- Confusion
- Coma

New

- Breathing difficulty
- Severe stomach pain
- Throat swelling
- Vomiting blood
- Blood in your stools
- Skin burns
- Vision loss
- Low blood pressure that develops rapidly

- Petroleum distillates skin and lung cancer
- Nitrobenzene Hemotoxin
- (absorbed through the skin)



Most Dangerous Items in Your Home



Ammonia & Hydrocarbons



- Vision loss
- Bloody stools
- Vomiting blood
- Collapse
- Coma
- Convulsions
- Necrosis (holes) in the skin or underlying muscle
- Kidney Failure

- Diethanolamine (DEA) Carcinogen
- Triethanolamine (TEA). Carcinogen
- 1,4-dioxane, Carcinogen
- Ethoxylated alcohols. Carcinogen
- Ethylene glycol monobutyl ether -Neurotoxic - damage to the brain and nervous system

Most Dangerous Items in Your Home

Sodium Hydroxide & Hydrogen Chloride



- Abdominal pain
- Throat swelling
- Collapse
- Loss of vision
- Mouth pain (severe)
- Rapid drop in blood pressure
- Throat pain (severe)
- Severe tissue damage
- Brain Damage
- Death



 Sodium hydroxide (lye) (120-140 degrees) heat dilution







April 19, 1995



Fertilizer & Oil - Atlanta



Officials: 2 killed, 80 homes affected after massive explosion in Indianapolis

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By the CNN Wire Staff

Updated 10:22 AM ET, Mon November 12, 2012

Residents return to damaged homes 01:19

Story highlights

It must be a bomb.

Seven go to hospitals after the late-night blast in an Indianapolis neighborhood. officials say

That was Debbie Wagner's first thought when she heard

the beam as abe law in bod overnight Saturday in ber

Pool Chemicals - Chicago



Pool Chemical Fire

Pool Chemicals Fire

Chemaxx was hired to investigate pool chemicals believed to have been responsible for a sudden, unexpected vigorous fire. The tragic incident took place inside the rear of an SUV that was traveling with two parents in the front and three children in the back seat. It is believed that an aerosol product leaked an organic solvent that made contact with the pool chemicals. The mixture burst into flames that instantly engulfed the entire vehicle in flames. While the parents were just able to exit the vehicle they were not able to rescue all their children even

though they received severe burns trying. Only one child was saved and two children perished in the fire. It just doesn't get any more horrific than this.

Dean F. Robinson II New Hampshire Department of Environmental Services dean.robinson@des.nh.gov Phone: (603) 271-2047