

# Batteries & HHW

Identifying their hazards and how to  
avoid them.

# Why this topic?

- It is pertinent to complying with your permit.
- It effects you and your customers on a daily basis.
- Batteries are becoming more diverse.
- The chemical make-up is ever changing.
- And there is the obvious reason ...

...The safety of you, your customers, everyone around you and the environment.



# Why this topic?



# Agenda

- Types of Batteries
- Dangers and Hazards Associated with Batteries
- Options for Disposal of Batteries
- Management of Batteries at Your SW Facility
- Activity
- Used Oil & HHW Grants
- How Different Wastes at HHW Events can Effect the Cost
- Educating Your Residents Before the HHW Event

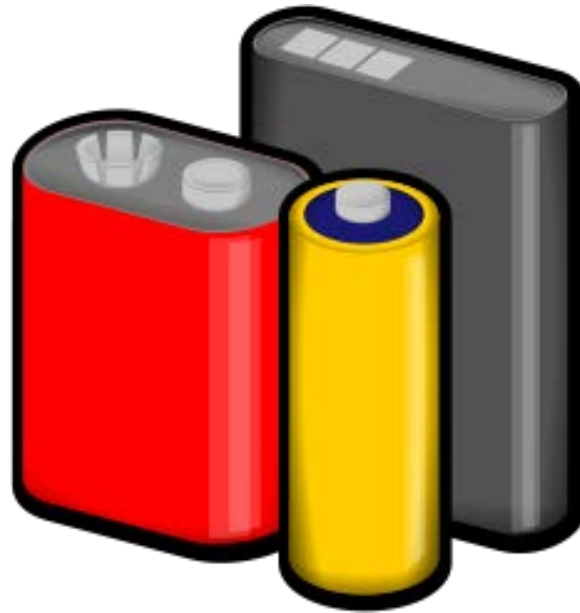


# Presenters for the Day

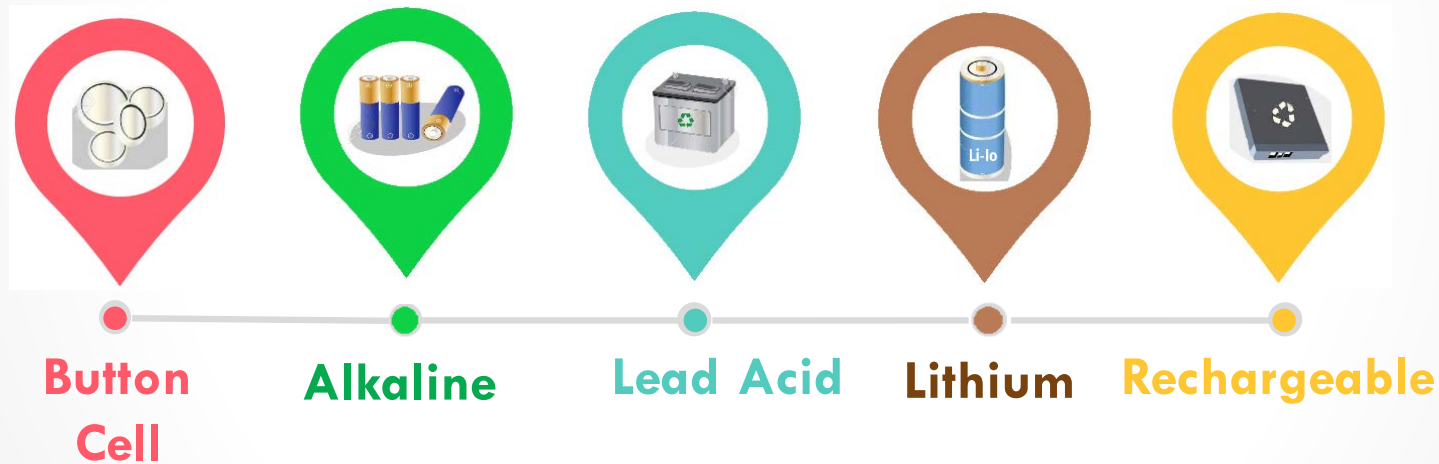
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# TYPES OF BATTERIES

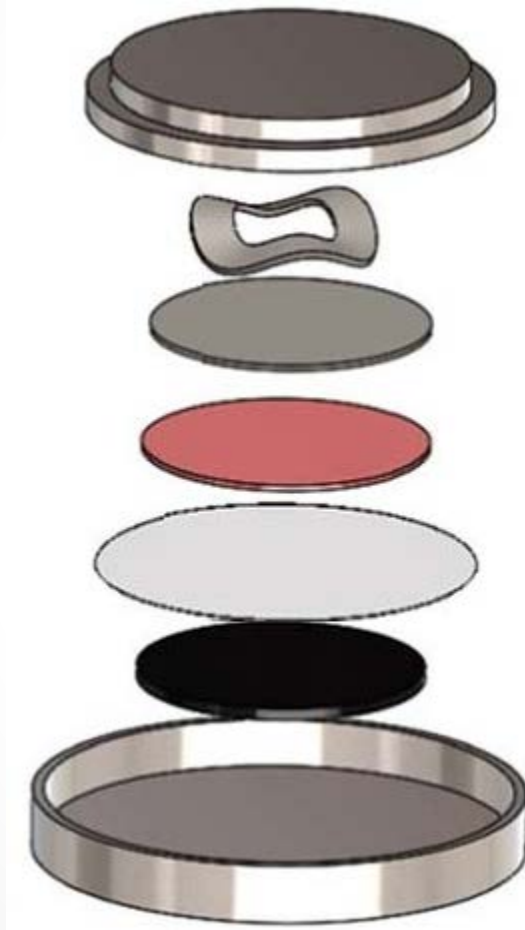
Dean Robinson



# TYPES OF BATTERIES



# BUTTON CELL BATTERIES



 Have a Pos. and a Neg.

 Hard to Read

 Treat as Universal Waste

# BUTTON CELL BATTERIES

Button Cells  
Thermostats  
Thermometers  
Switches  
Relays  
Other



“Treat them as Mercury Containing Devices”

# ALKALINE BATTERIES



**SAFE**  
**1**

Toxins  
removed  
since 1984



**S.W.**  
**2**

OK to throw  
away



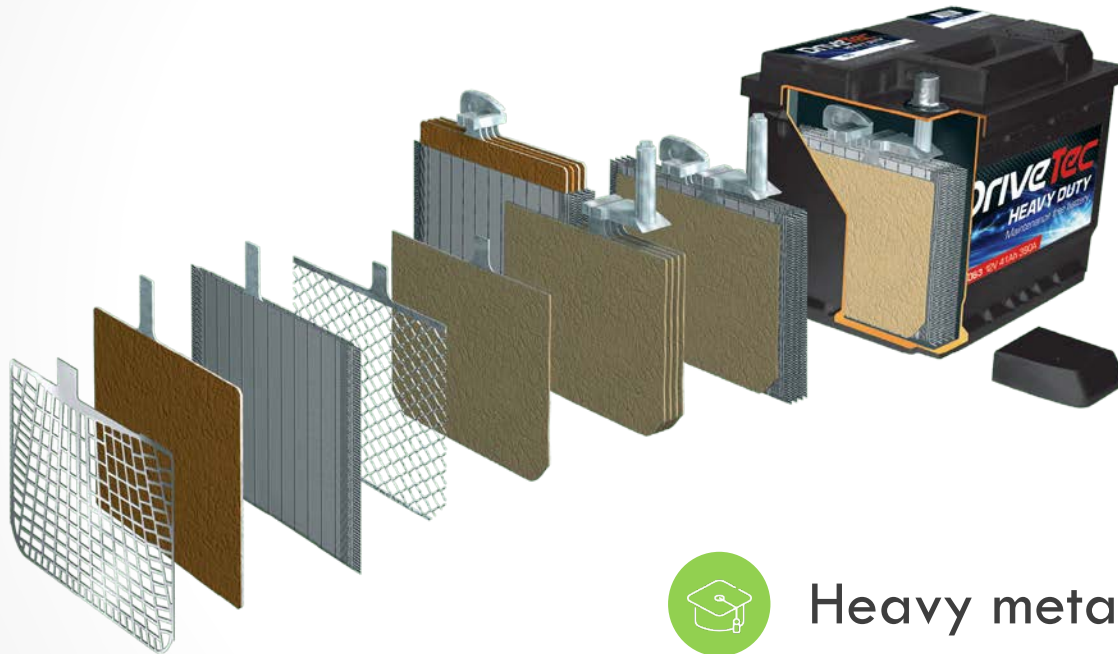
**Recycle**  
**3**

Some vendors  
can recycle  
them





# LEAD ACID BATTERIES



Heavy metals & acid



Money Maker

# MANAGING LEAD ACID BATTERIES

**1**

**Separate  
battery  
poles**

**2**

**Must be  
able to  
inspect**

**3**

**Impervious  
Surface &  
under cover**



# LITHIUM & LITHIUM-ION BATTERIES



**Li-ion**

# LITHIUM ION BATTERIES



7,104 CELLS



1,200 LBS





# RECHARGEABLE BATTERIES

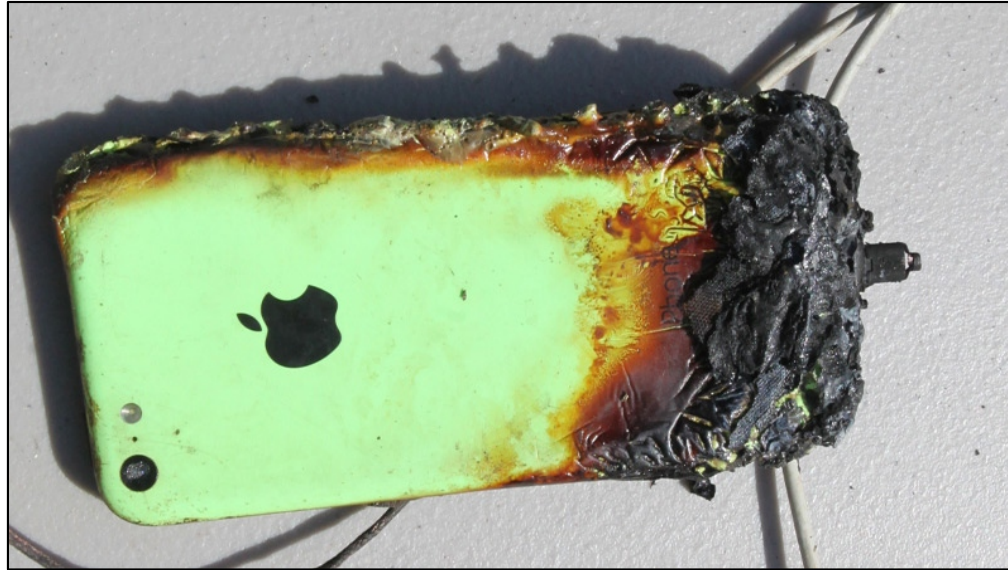


Rechargeable = Recyclable





# DANGERS & HAZARDS



# DANGERS & HAZARDS



Battery fires  
happen in transport



Lithium Batteries are  
a DOT Haz-Mat



# DANGERS & HAZARDS



Teenage Girl Killed When Her Mobile Phone Explodes While She Is Talking To Relative

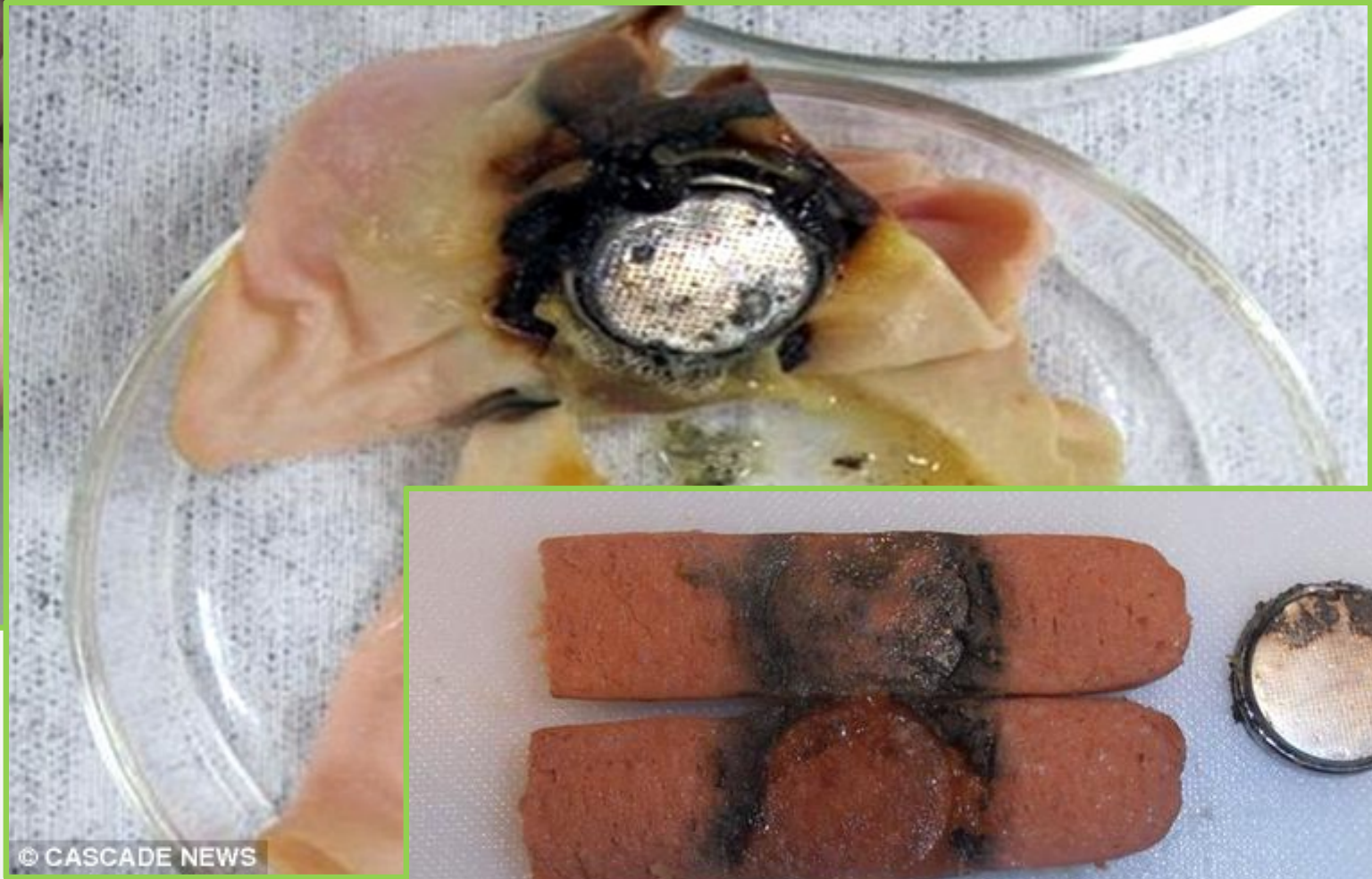
<https://koko.ng/teenager-girl-killed-when-her-mobile-phone-explodes-while-she-is-talking-to-relative/>



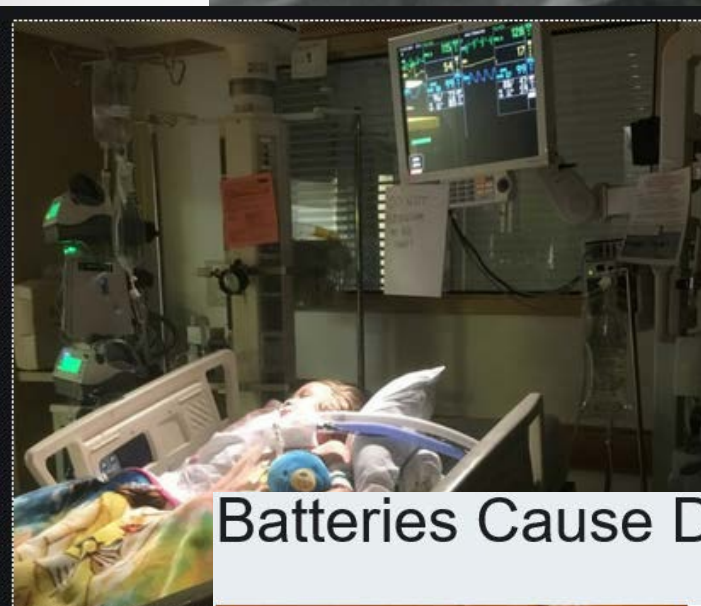
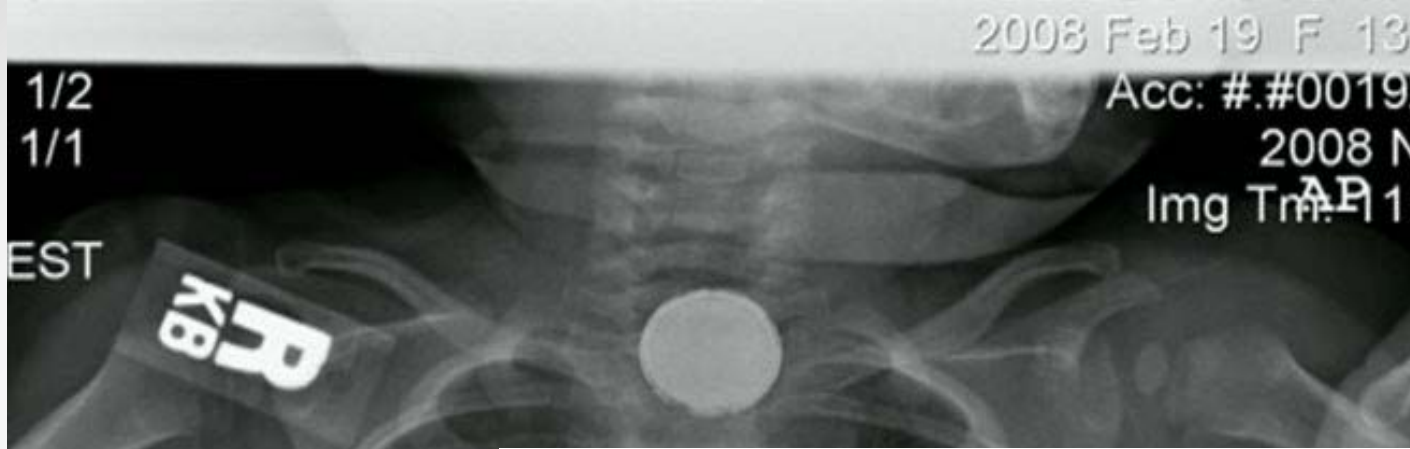
Terrifying moment passenger's hand luggage bursts into flames

<https://www.thesun.co.uk/news/5670028/fire-video-china-southern-plane-explosion/>





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Feedback Like 16.3M

# Daily Mail

.com

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## Batteries Cause Devastating Injuries

### How small batteries have become the new child killer: They look innocuous, but can cause internal

Like a horror



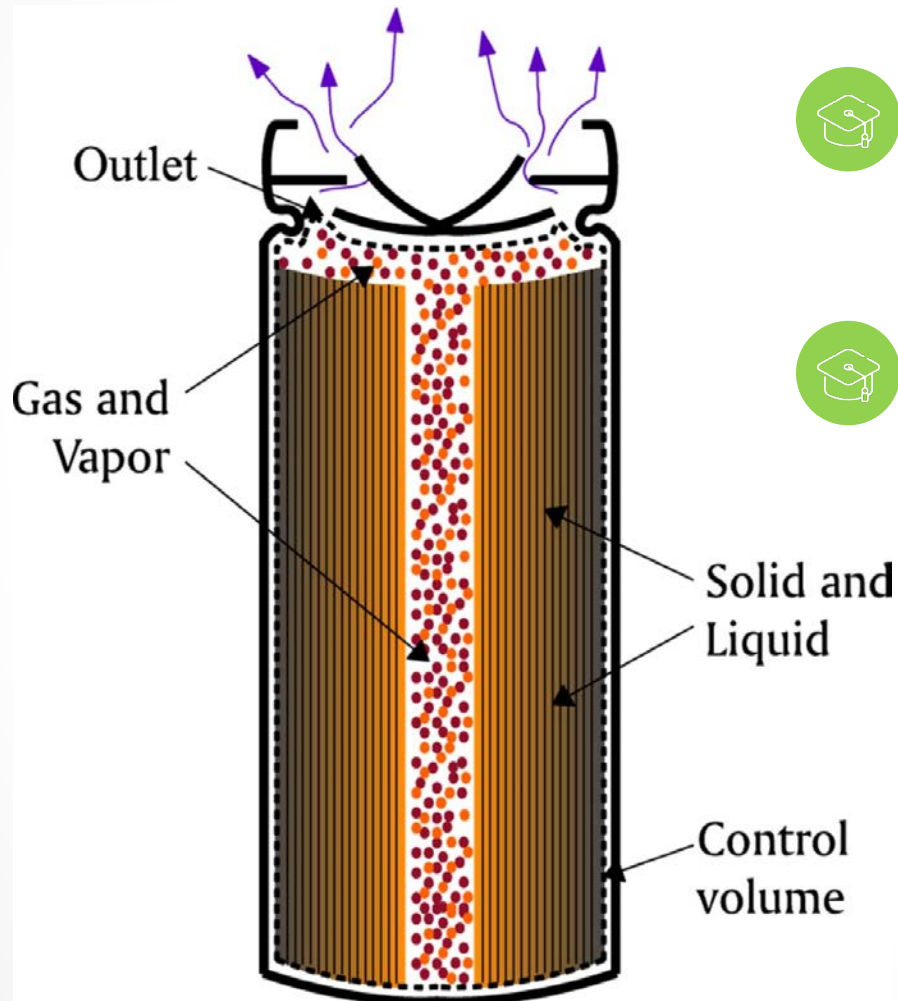
### The Bottom Line

Swallowed batteries burn through a child's esophagus in just 2 hours, leading to surgery, months with feeding and breathing tubes, and even death. About the size of a nickel, 20 mm, 3-volt lithium coin cells are the most hazardous as they are big enough to get stuck and burn faster. Secure battery compartments and keep loose batteries away from children.



Internal reactions  
to acidic soda  
in the esophagus

# OFF-GASSING



Designed to release gasses



Can build up in confined spaces



# SORTING AREA



Alkaline

Rechargeable

Lithium



Protected from  
Weather



Magnification Tools



Deal with leaking  
batteries ahead of time



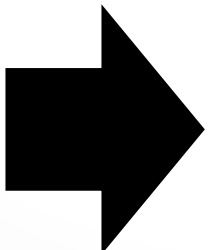
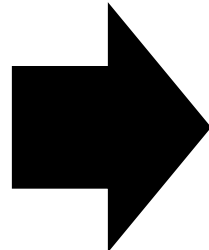
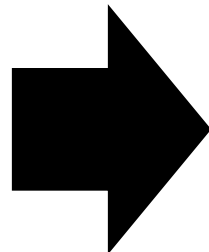
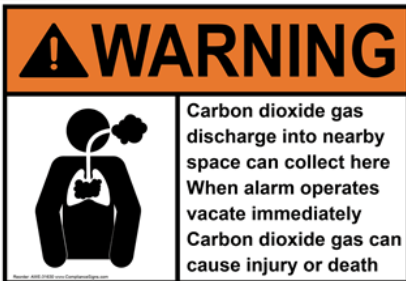
Bags & Tape



P.P.E. (Gloves, Glasses,  
Gasses)

# SORTING AREA

CO2, Methane, Ethane, & Ethylene



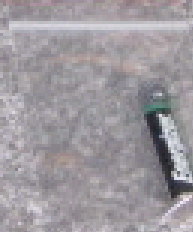
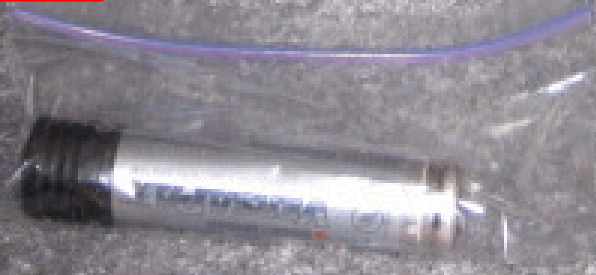
# DANGERS & HAZARDS



Transfer Station Fires



Don't let it be your  
fault








# OPTIONS


**Vender**  
**1**

Ship to a  
certified  
vendor




**U.W.C.**  
**2**

Universal  
Waste  
Contract  
(Mercury)



**Refuse**  
**3**

Research  
other  
resources





# #1 THING YOU CAN DO

Give your customers options!

- Hand Outs -
- Signs -
- Links -
- **Keep it Local -**
- Other?



# KEEP IT LOCAL

## Batteries Plus Bulbs

Manchester, NH  
(603) 621-0100

Open until 8:00 PM

## Batteries Plus Bulbs

Newington, NH  
(603) 433-1677

Open until 8:00 PM

## Batteries Plus Bulbs

Nashua, NH  
(603) 883-5060

Open until 8:00 PM

## Batteries Plus Bulbs

Salem, NH  
(603) 685-0293

Open until 8:00 PM

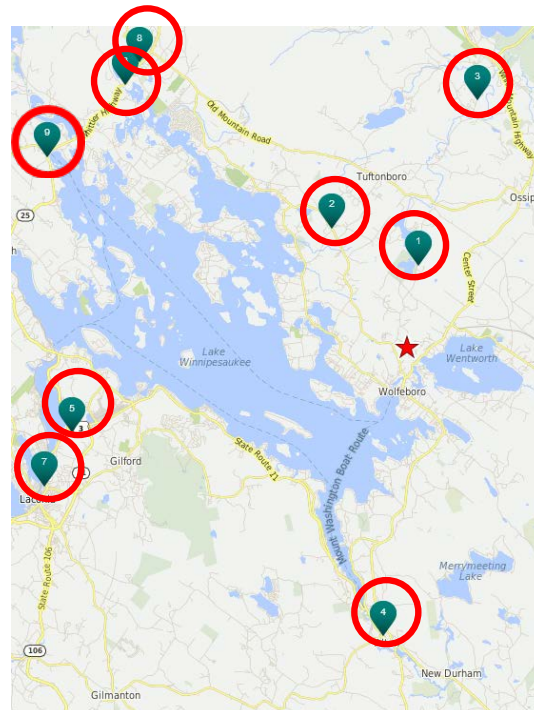


# KEEP IT LOCAL



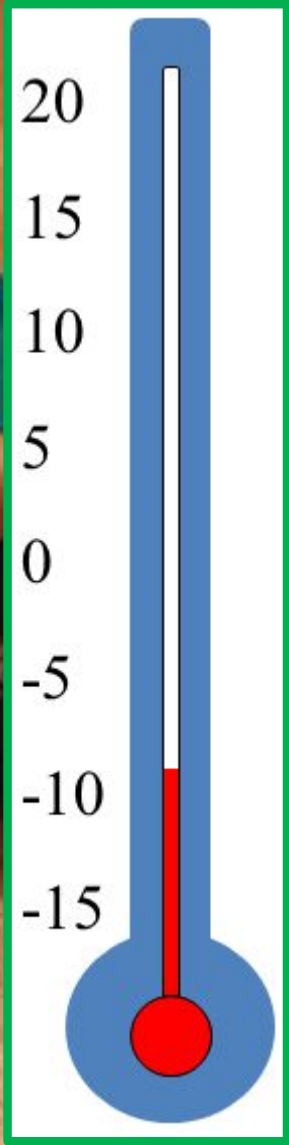
**call2recycle**  
Leading the charge for recycling.

Search By State



NEARBY	RECYCLE ON THE
<b>4. Alton, NH</b> Town of Alton Transfer Center 1 Monument Square Alton, NH 03809 603-875-5801 <b>Accepts</b> Rechargeable Batteries Cellphones <a href="#">About this Location</a> <b>Send To :</b> <a href="#">Email</a>   <a href="#">Mobile</a>	
<b>5. Gilford, NH</b> Lowes 1407 Lake Shore Rd Gilford, NH 03249 603-556-6032 <b>Accepts</b> Rechargeable Batteries Cellphones <a href="#">About this Location</a> <b>Send To :</b> <a href="#">Email</a>   <a href="#">Mobile</a> <b>Website:</b> <a href="http://www.lowes.com">http://www.lowes.com</a>	
<b>6. Moultonborough, NH</b> Ossipee Mountain Electronics 832 Whittier Hwy Moultonborough, NH 03254	





# IF IT'S RECHARGEABLE...IT'S RECYCLEABLE



# FINAL THOUGHTS



## Prepare

A good sorting location will reduce confusion. Safety equipment will reduce accidents



## Have Options

Make it easy for residents to find vendors for the things you cannot accept.



## Add Links

Have links on your web page that you can refer residents to when it gets busy.



## Create an Image Library

Take and save photos for training purposes.



## Educate Residents

Reach out at schools, town days, and throughout the year. Provide hand-outs, cable TV information, and workshops.



## Don't be a Stranger

Reach out to NHDES for help and assistance whenever needed. Let us know about your successes.



## Managing Batteries

**Sean Plasse**  
Program Manager, Northeast Region  
[splasse@call2recycle.org](mailto:splasse@call2recycle.org)





# Battery Awareness



## Lithium Battery Fire



Video Shared with Permission from DEM-CON



# Call2Recycle's Defining Moment - June 5, 2017



# Tioga County, NY January 2020





Batteries

## Two Battery Types



**Primary – One and done.**  
**Rechargeable – Use it more than once.**

**Latin Roots**  
**Prime (one)**  
**Re (repeat)**



# DDR Batteries

**Damaged, Defective, Recalled LITHIUM batteries.**

**A Department of Transportation statutory term that ONLY applies to lithium batteries. Declares a hazardous material. Requires CFR 49 certification and procedures.**

**EPA – Determines ‘hazardous waste.’ Example, NiCd Battery.**

**DOT – Determines ‘hazardous material.’ Lithium DDR Battery.**

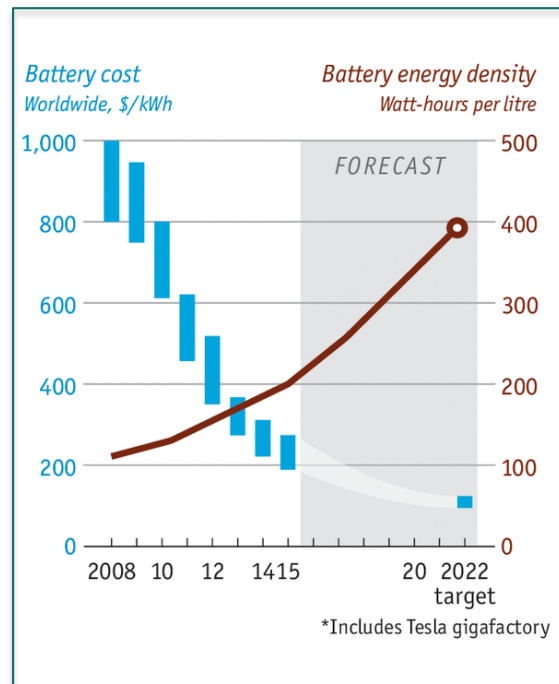
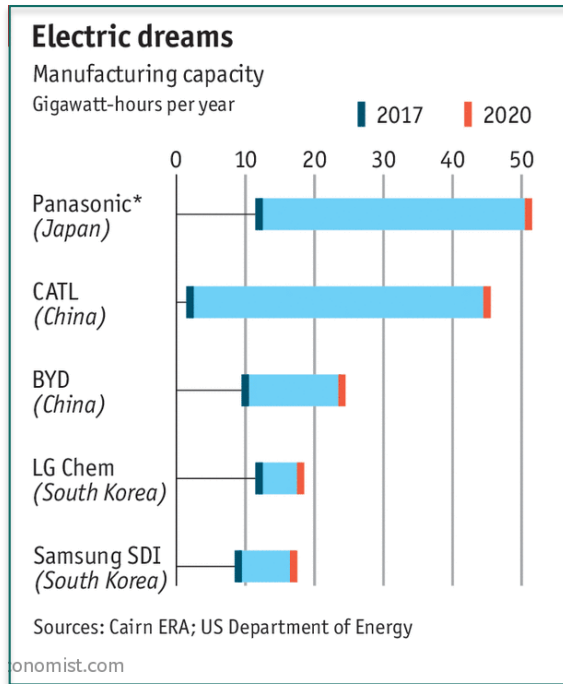






# Battery Trends

# The Dynamic Lithium Battery Market



## Internet of Things (IOT)

**2020 - 10 billion**

**2025 - 62 billion**

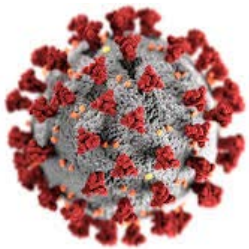
**400% Increase in Lithium Manufacturing Capacity**



# Internet of Things (IOT) Internet of Everything Enterprise of Things

**Wearables**  
**Smart Homes**  
**Healthcare**  
**Small Businesses**  
**Banking**  
**Education**  
**Retail**

**E-Commerce**  
**Transportation**  
**Agriculture**  
**Smart Cities**  
**Insurance**  
**Supply Chain**  
**Utilities**

















# Lithium Batteries

## Winners of the 2019 Nobel Prize in Chemistry

### John B. Goodenough, Akira Yshino, M. Stanley



**“They have laid the foundation of a wireless, fossil fuel-free society, and are of the greatest benefit to mankind.”**







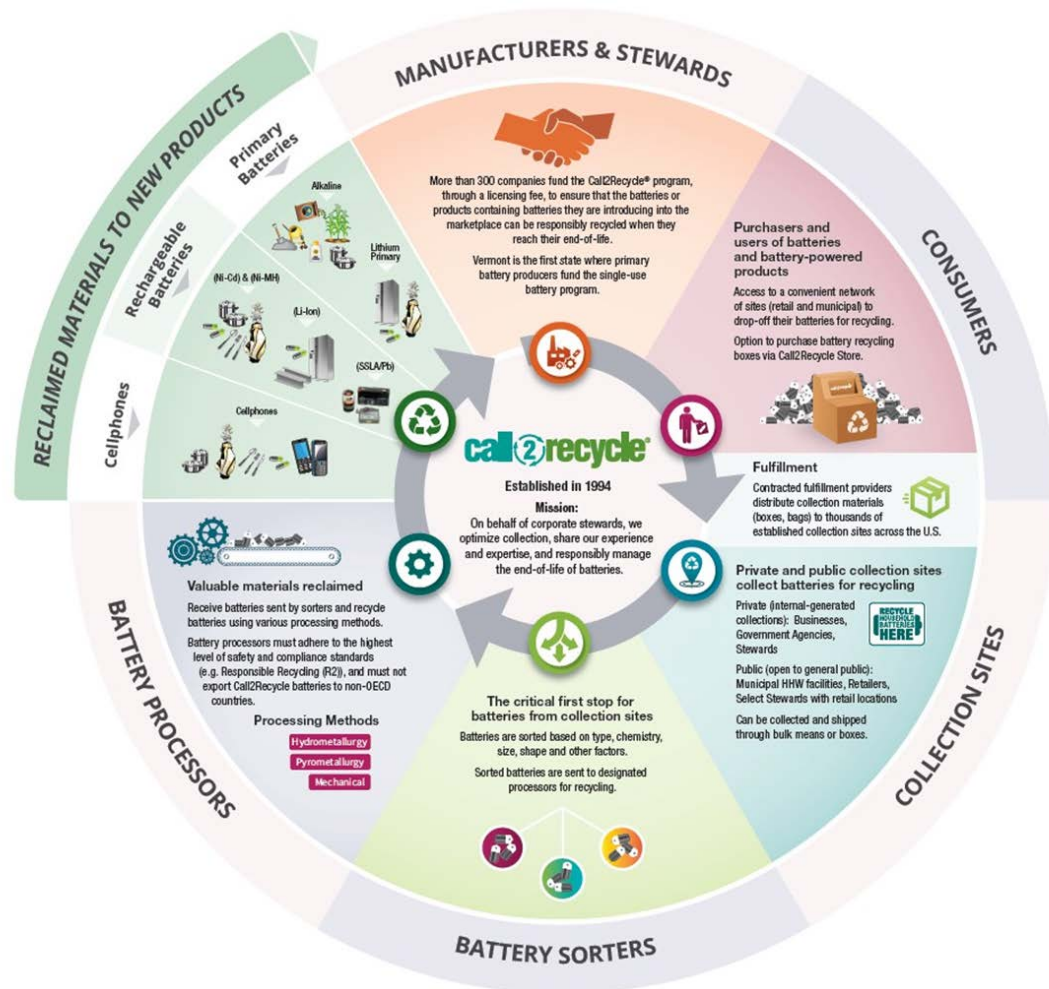


Call2Recycle

# Call2Recycle

The country's largest,  
most reliable battery recycling  
program.

Funded by 300 battery  
producing stewards.



# Call2Recycle Battery Program

**Free program for municipalities to recycle rechargeable batteries.**

**Includes free boxes, shipping, and recycling costs.**

**Improves the fire safety and environmental mission of collection sites.**

**Call2Recycle can also take non-rechargeable(primary) batteries  
as a fee-based service.**





# Battery Recycling

# Call2Recycle Mixed-Battery Boxes

DOT approved for 66lbs, mixed battery use.

Display, collections, storage.

No cost to municipal facilities for rechargeable or mixed-use.

Pre-paid, pre-labeled for shipping.





## Patented Flame-Resistant Liner

**Third-Party Tested - Extensive testing by independent laboratory, withstood up to 1,100 degrees F.**

**Containment - Prevents flames & heat from spreading outside the box.**



## Rechargeable Batteries – Free for Munis



Nickel Cadmium (Ni-Cd)



Lithium Ion (Li-Ion)



Nickel Metal Hydride (Ni-MH)



Small Sealed Lead Acid (SSLA/Pb)



Nickel Zinc (Ni-Zn)



## Non-Rechargeable Batteries – Fee Based



**Alkaline: AA, AAA, 6V, 9V, C, D, button cells**

**\$0.40/lbs + shipping**



**Lithium Primary**

**\$3.75/lbs + shipping**



# Minimum Terminal Protection Guidelines SHIPPING IN CALL2RECYCLE BOXES

Below are the minimum requirements for preparing household batteries for shipment. When in doubt of the battery type, Call2Recycle® *recommends the battery be individually bagged or taped.*

## BATTERY TYPE / CHEMISTRY

## TERMINAL PROTECTION REQUIRED?



**Rechargeable**  
Nickel Cadmium (Ni-Cd)  
Nickel Metal Hydride (Ni-MH)  
Nickel Zinc (Ni-Zn)



**Primary (Select sites only)**  
Alkaline & Carbon Zinc



**Rechargeable**  
Small Sealed Lead Acid (SSLA/Pb)  
Lithium Ion (Li-Ion)



**Primary (Select sites only)**  
Lithium  
Button/Coin Cell

**9V or Less = NO** (drop in the box)

**Greater than 9V = YES**

Terminal protection  
**REQUIRED**

**12V or Less = NO** (drop in the box)

**Greater than 12V = YES**

Terminal protection  
**REQUIRED**

**DAMAGED BATTERIES:** Special U.S. DOT-approved packaging (not included here) for shipment required. Contact Customer Service at 877.723.1297 for assistance.

**All = YES**

Terminal protection  
**REQUIRED**

**Call2Recycle boxes should be shipped when full (66 lbs.) or within one year of the collection of the first battery.**

**Store the Call2Recycle collection box in a cool, dry place and where it is under supervision.**

### Charge Up Safety!

[call2recycle.org/safety](http://call2recycle.org/safety)

**Avoid the spark!**



Battery terminals that touch metal surfaces or other batteries can spark, causing a fire or explosion.

Protect terminals before shipping  
**Bag or Tape Each Battery!**



Place each battery into a clear plastic bag.

- Call2Recycle-provided bags
- Produce bags
- Newspaper bags
- Ziploc® bags

**Clear bags only**

If no bags are available, tape the positive (+) terminal with a non-conductive tape.

- Clear packing tape
- Electrical tape
- Duct tape

**No masking tape** No Scotch® tape  
**Do not cover chemistry label**



(drop in the box)



**Do not use any of the following for protecting battery terminals.**

**Do not put anything else in the box.**



**Grocery bags**



**Paper bags**



**Paraffin or other dipping products**



**Masking tape**



**Scotch tape**



**For button/coin cells, make a ravioli.**

**CLEAR packing tape, sticky side up.**

**Button/coin batteries on the tape with space between each battery.  
Cover with a second layer of CLEAR tape.**







## CellBlock DDR Kits

DDR lithium-ion batteries.  
U.S. DOT approved recycling kit.

U.S. DOT Special Permit 20549 that fully complies in  
transporting hazardous materials.

Pre-paid shipping and recycling. Order online.  
[www.call2recycle.org](http://www.call2recycle.org)





## Bulk DDR Kits

132 lbs. of DDR Batteries

**U.S. DOT Special Permit 20549.**  
**Fully complies in transporting**  
**hazardous materials.**



## High Watt-Hour Box - 300Wh to 800Wh – End of Life



**>300 WH is Hazardous Material (even not DDR)**  
**80 volts x 40 amp-hours = 320 watt-hours**  
**Kit Pre-Permitted for 300Wh to 800Wh**  
**For “end of life” only, not DDR.**  
**No CFR Training or Paperwork**



# Lithium Fire

Heat

Fuel

Oxygen

Toxic Gases





## CellBlockEX

**Fire-suppression material. 100% recycled glass granules.**

**Heat – As glass melts, it pulls heat from fire.**

**Fuel – The porous surface absorbs electrolytes.**

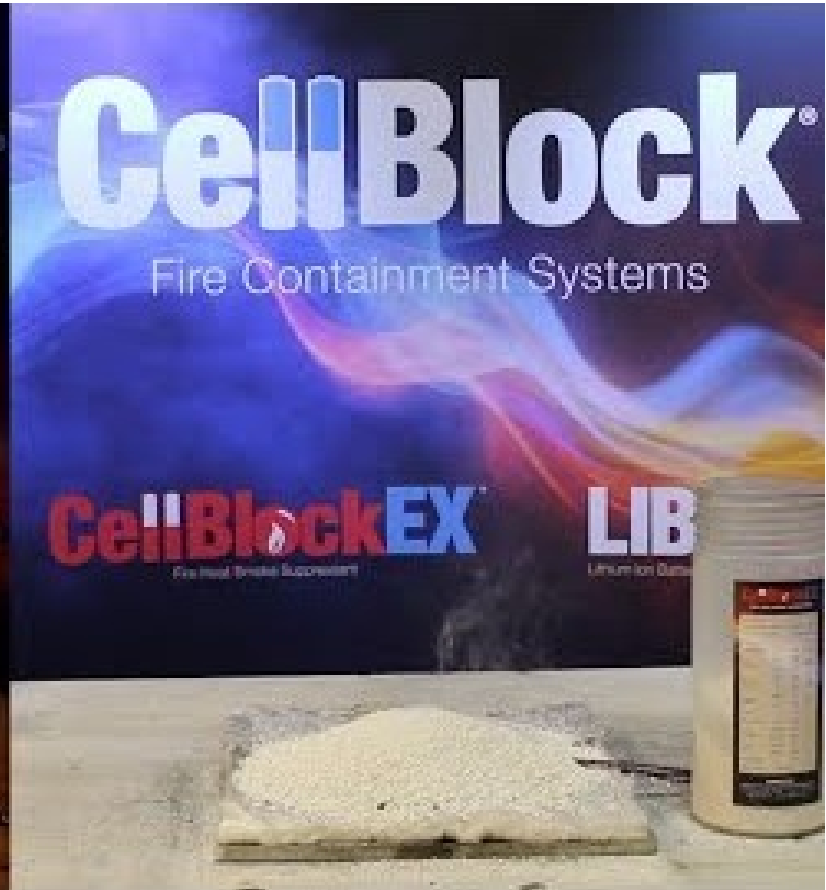
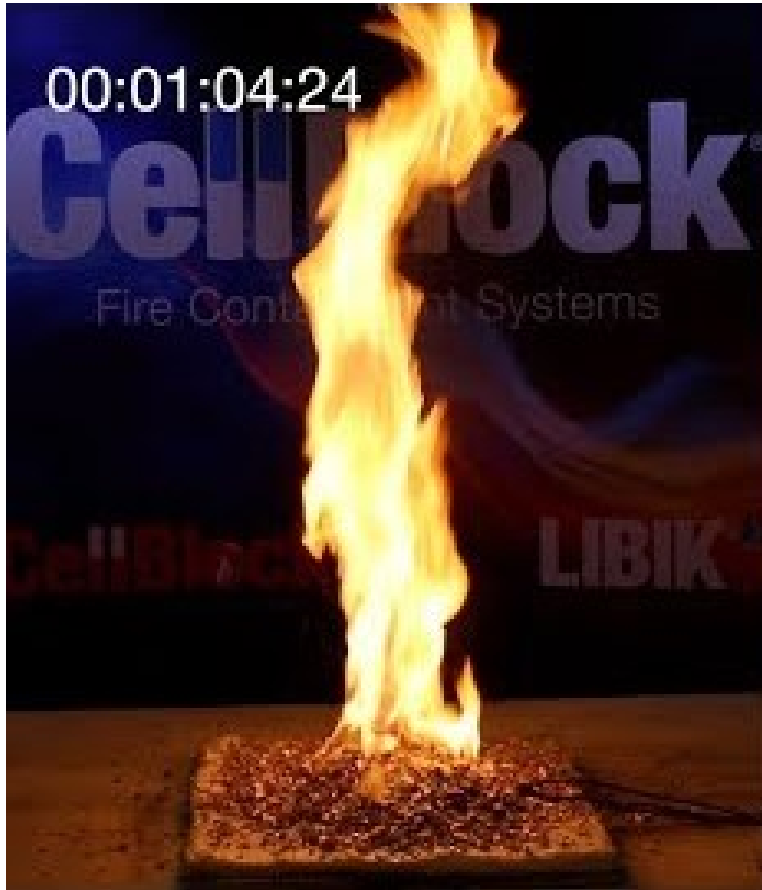
**Oxygen – Glass melts to form a silicate coating, cutting off O<sub>2</sub>.**

**Class D, combustible metals, lithium-ion battery fires.**

**Non-Toxic – Glass is inert, and also does not chemically react with lithium fire.**

**Absorption – Granules absorb vapors.**







## Lithium-Ion Battery Incident Kits (LIBIK)



A Safer Tool Kit for Fighting Lithium-ion Battery Fires

### The Protection You Need

CellBlock FCS offers the highest level of safety with these convenient EHS Kits. Augment your safety protocol with the tools you need to quickly extinguish a lithium-ion battery fire.

### Fire Shield Blanket

Provides an impervious barrier between the fire fighter and the burning device and increases the suppressive effect of the PED-Pad pillow.

- Constructed from incredibly robust fire proof fabrics that have undergone rigorous testing.

### PED-Pad Fire Suppression Pillow

Designed to be a quick and concise method of extinguishing a lithium-ion battery fire, while protecting the fire-fighter and reducing interaction time.

- Place over flame to release the inner CellBlockEX<sup>®</sup>, our industry trusted and proven extinguishing agent used for fighting lithium-ion battery and device fires.
- CellBlockEX is mineral-based, entirely environmentally-friendly and non-toxic.

### CellBlock High Heat Gloves

These durable, high-dexterity gloves are designed to protect the user when approaching overheating devices.

- Manufactured using composite textiles made to withstand extreme temperatures.



**LBKEH501** Basic Lithium-Ion Battery Incident Kit  
Gloves, Standard Blanket, PED-Pad Pillow

**LBKEHSHW02** High Watt Hour Lithium-Ion Battery Incident Kit  
Gloves, High Watt Hour Blanket, (2) PED-Pad Pillows

Convenient wall-mount bracket provided. Custom kits and configurations available.



## CellBlock Drums for Storage and Transportation

Great solution for storing DDR and E-Waste.

Drums are lined with CellBlockEX granules to filter heat, smoke and fumes, with a vented lid.

Transport lithium-ion batteries when packaged with CellBlockEX.

Access to DOT Special Permit 20549.

Reusable.



# Call2Recycle Online Store

[home](#) | [about](#) | [contact](#) | [find drop-off location](#) | [store](#) | [cart](#) | [bot wizard](#)

1-877-723-1297

[customerservice@call2recycle.org](mailto:customerservice@call2recycle.org)

site search



FIND A DROP-OFF LOCATION:

REGION

[RECYCLING 101](#)

[COLLECTION PARTNERS](#)

[STEWARDS](#)

[SAFETY](#)

[NEWS & RESOURCES](#)

[CONTACT US](#)

Call2Recycle Store

[Home](#) > [Call2Recycle Store](#)

Search

## Battery Collection & Recycling Services

Charge up battery recycling with best-in-class recycling solutions that are convenient, compliant and safe. Call2Recycle offers turnkey and flexible options to ship in boxes or in bulk. [Contact us](#) at 1-877-723-1297 to learn more about these services or to discuss your recycling needs in more detail.



Large Nested Battery & Cellphone Recycling Boxes

\$115.00

Add to cart



Large Battery & Cellphone Recycling Box

\$65.00

Add to cart



Small Battery & Cellphone Recycling Box

\$45.00

Add to cart



Pallet of 50 Small Battery & Cellphone Recycling Boxes

\$600.00 – \$2,000.00

Select options



Pallet of 50 Large Battery & Cellphone Recycling Boxes

\$750.00 – \$2,500.00

Select options



# Battery Strategic Planning

**Battery Program**  
**Budgeting**  
**Facility Layout**  
**Training**  
**Safety Products**  
**Outreach**

**Future Proofing**





Leading the charge for recycling.™

thank you!

**Sean Plasse**

Program Manager, Northeast Region  
splasse@Call2Recycle.org

Corporate Headquarters:  
1000 Parkwood Circle, Suite 200  
Atlanta, Ga 30339



# HHW SORTING EXERCISE



# IDENTIFY THE HAZARDS



- Ignitable/Flammable
- Corrosive
- Reactive
- Toxic
  
- Non hazardous
- Unknown

\* Recognize Incompatibles





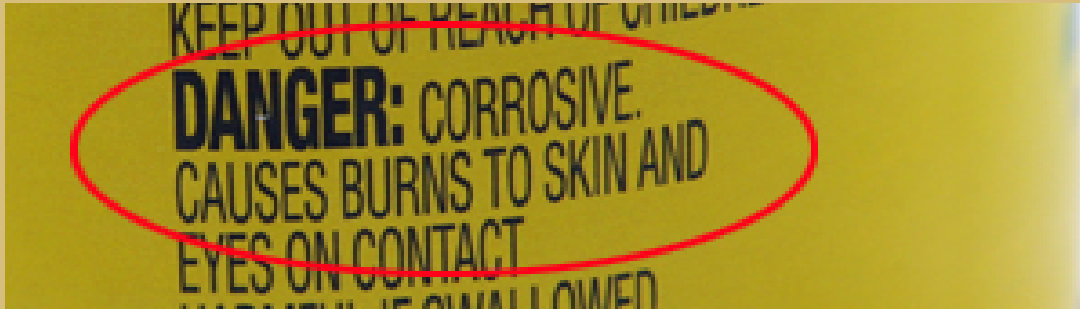
# IGNITABLE

**WARNING: FLAMMABLE.**  
Read cautions on back panel.

- Burns or Ignites easily.
- The label says:
  - Combustible. Flammable.
  - Do not use near heat or flame.
  - Do not smoke while using this product.
- Paint, automotive products, thinners and other solvents are the most flammable household products.



# CORROSIVE



- Can burn skin/tissue, clothing or other materials.
- The label could say:
  - Causes severe burns on contact.
  - Can burn eyes, skin or throat.
- Oven, drain and toilet bowl cleaners are common corrosive products.



# REACTIVE/EXPLOSIVE

... severe mucosal damage may contraindicate the use of gastric lavage. **PHYSICAL AND CHEMICAL HAZARDS:** This product contains bleach. Do not use or mix with other household chemicals such as other toilet bowl cleaners, rust removers, acids or products containing ammonia. To do so will release hazardous, irritating gases. Avoid contact with clothes, fabric, carpet, wood, painted surfaces, etc.

- Could create a poison gas when mixed with other products. Explodes when exposed to heat, shock or pressure.
- The label could say:
  - Do not mix with other household products or keep away from heat or pressure.
- Chlorine bleach reacts with many other common cleaners. Household products should never be mixed.



# TOXIC/POISON

**KEEP OUT OF REACH OF CHILDREN**  
**DANGER: MAY CAUSE EYE BURNS.**  
**SKIN IRRITANT. HARMFUL IF SWALLOWED**  
**OR INHALED.** See back panel for additional  
precautions and First Aid information.

- Can cause short or long-term illness or death.
- The label could say:
  - Harmful or fatal if swallowed.
  - Use only in a well-ventilated area.
- Pesticides, paint thinners, many automotive products and some cleaners are toxic.

# NAME THAT CHARACTERISTIC

- Identify what you see and then figure out which of the characteristic it may have:
  - Ignitable, Corrosive, Reactive, and/or Toxic
- Are any of them compatible?
- How should they be stored?



The image features a close-up, slightly blurred view of several stacks of US one hundred dollar bills. The bills are fanned out, showing their intricate patterns and colors. Overlaid in the center is the word "GRANTS" in a large, bold, green font with a white outline. The background is a dark blue gradient.

# GRANTS

Dean Robinson

# Used Oil



# HHW



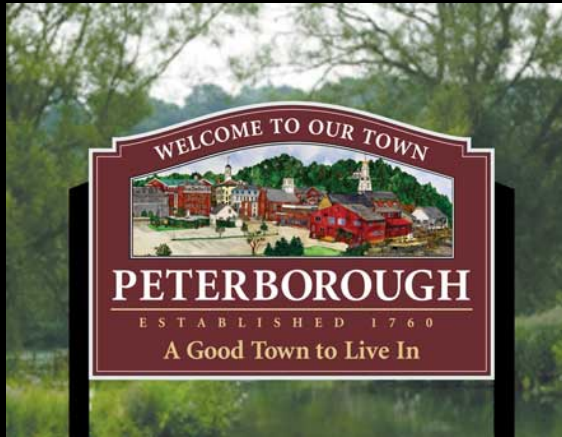


# Why Collect?





# Who Can Apply?



Towns



Cities



Planning  
Commissions



Solid Waste Districts

# What is Reimbursable?

## HHW



- HHW Events
  - Vendor Expenses
  - Police Support
- Outreach
- Training
- Labor

# What is Reimbursable?

## Used Oil



- Burner Service
- Repairs
- Concrete Pads
- Fencing
- Anything Collection Related



# How Much Can I Have?



# HHW Match Grant

HHW facility used in absence of hauler



HHW Facility used to reduce hauler costs



Multiple events and/or multiple communities



Single community holding a single event



# Used Oil Gift Grant

\$2,500 for a single  
community



\$5,000 for a multiple  
community collection  
center



# DES Web-Site

AA Change Text Size Change Site Language Search The Site

NEW HAMPSHIRE DEPARTMENT OF Environmental Services

Advisories | Events | OneStop | Contact

Home and Recreation Business and Community Climate and Sustainability Rules and Regulatory Resource Center

Home > Waste

## Waste

*Focusing on waste management, regulation, and remediation.*

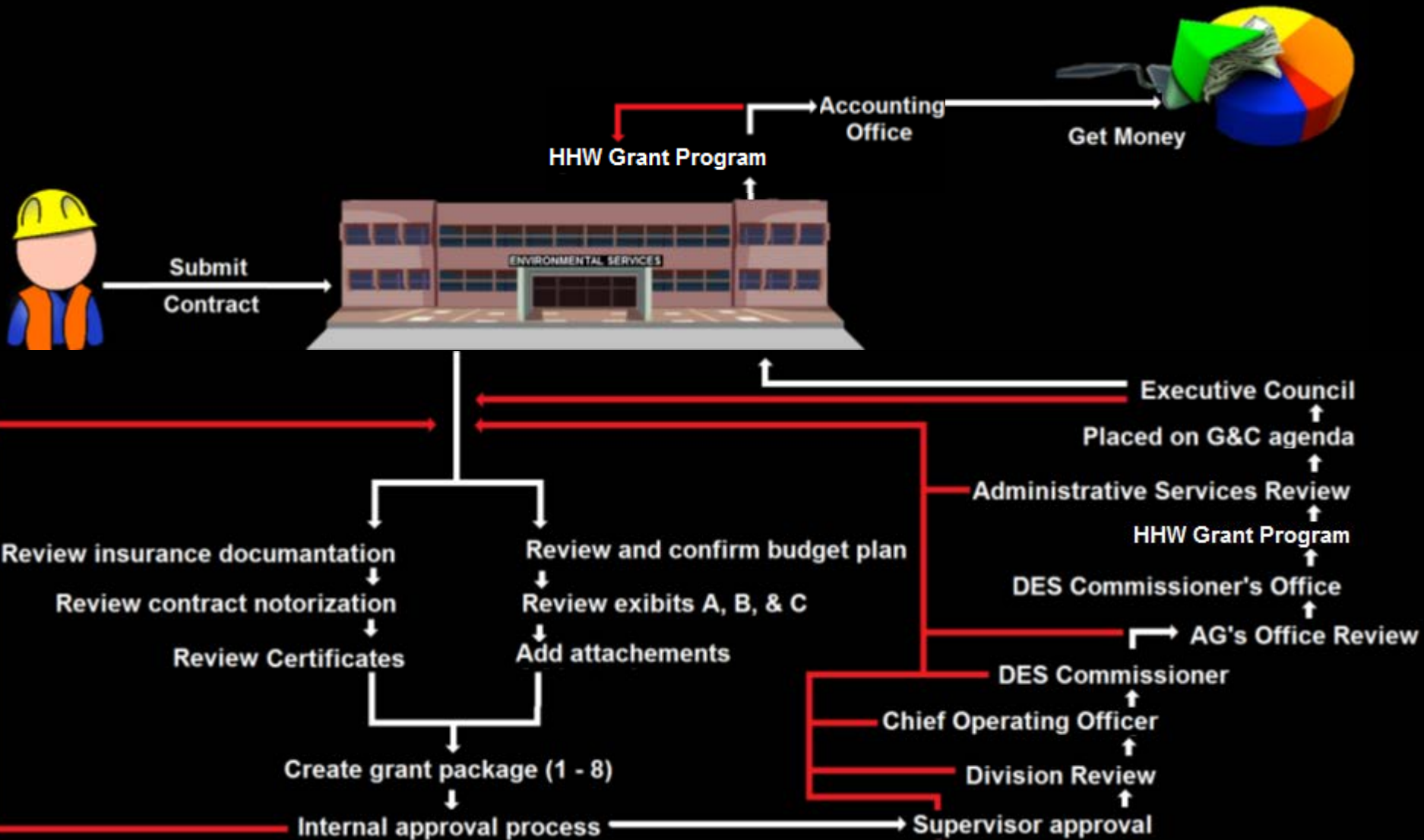
Responsible waste management and ensuring that hazardous and regulated materials are properly handled and disposed are key to protecting public health and the environment. NHDES works to ensure prompt remediation to restore contaminated sites to productive use, protecting the environment and public health.

- Hazardous Waste >
- Solid Waste >
- Household Hazardous Waste >
- Wastewater >
- Spill Response >
- Contaminated Sites >
- Asbestos >
- Septic Systems >





# The Process





# What to Remember

All HHW applications are due Feb 1<sup>st</sup> and must be received by NHDES before the grant contracts can be sent out.

Used Oil applications are “first come, first serve” and will be accepted on a rolling basis until the money runs out for the year.

More collection/drop off opportunities = more money.

# COST EFFECTIVE COLLECTIONS

What drives up costs?

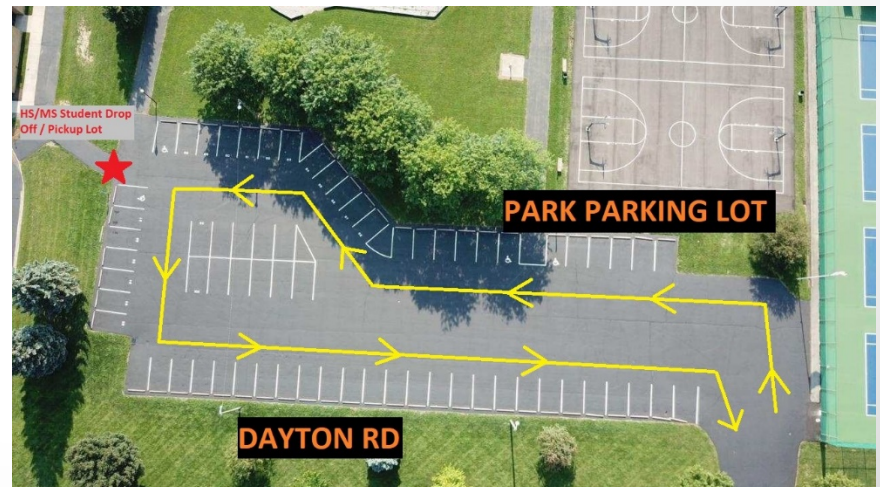


What gives you the most for your money?



# COST EFFECTIVE COLLECTIONS

- Location
  - Traffic patterns
  - High or low participation (per-capita costs)
  - Staff & volunteer labor



# Bulbs

State universal waste contract tends to be best price.

<b>LAMPS:</b>	<b>Unit of Measure</b>	<b>Unit Cost</b>
Straight Fluorescent	Price Per Foot	\$0.055
U-Tubes, Circline and Compact Fluorescent	Price Per Lamp	\$0.20
Specialty Mercury Vapor, Metal Halide, LPS, HPH	Price Per Lamp	\$0.50
Broken/ Crushed Fluorescent Lamps	Price Per Pound	\$0.50
Specialty UV Fluorescent	Price Per Lamp	\$0.47
<b>BALLASTS:</b>	<b>Unit of Measure</b>	<b>Unit Cost</b>
Non-PCB	Price Per Pound	\$0.10
PCB- Non Leaking	Price Per Pound	\$0.45
PCB- Leaking	Price Per Pound	\$0.45
<b>MERCURY DEVICES:</b>	<b>Unit of Measure</b>	<b>Unit Cost</b>
Intact Mercury Devices	Price Per Pound	\$1.45
<b>RECYCLING KITS- LAMPS</b>	<b>Unit of Measure</b>	<b>Unit Cost</b>

# Household Chemicals

Toxic, Corrosive, Flammable, Reactive

- Use HW Vendor
- Be your own permanent HHW facility
  - ✓ Training
  - ✓ Real Estate
  - ✓ Liability
  - ✓ Labor

# Batteries

- HW Vendor
- Battery Recycling Vendor
  - Used to be free
  - Speak to your vendor





# Pharmaceuticals

- Not usually reimbursable under HHW grant
- Law Enforcement (DEA requires double)
- Is a pharmacist required?





# Pharmaceuticals

## National Prescription Drug **Take-Back Day**

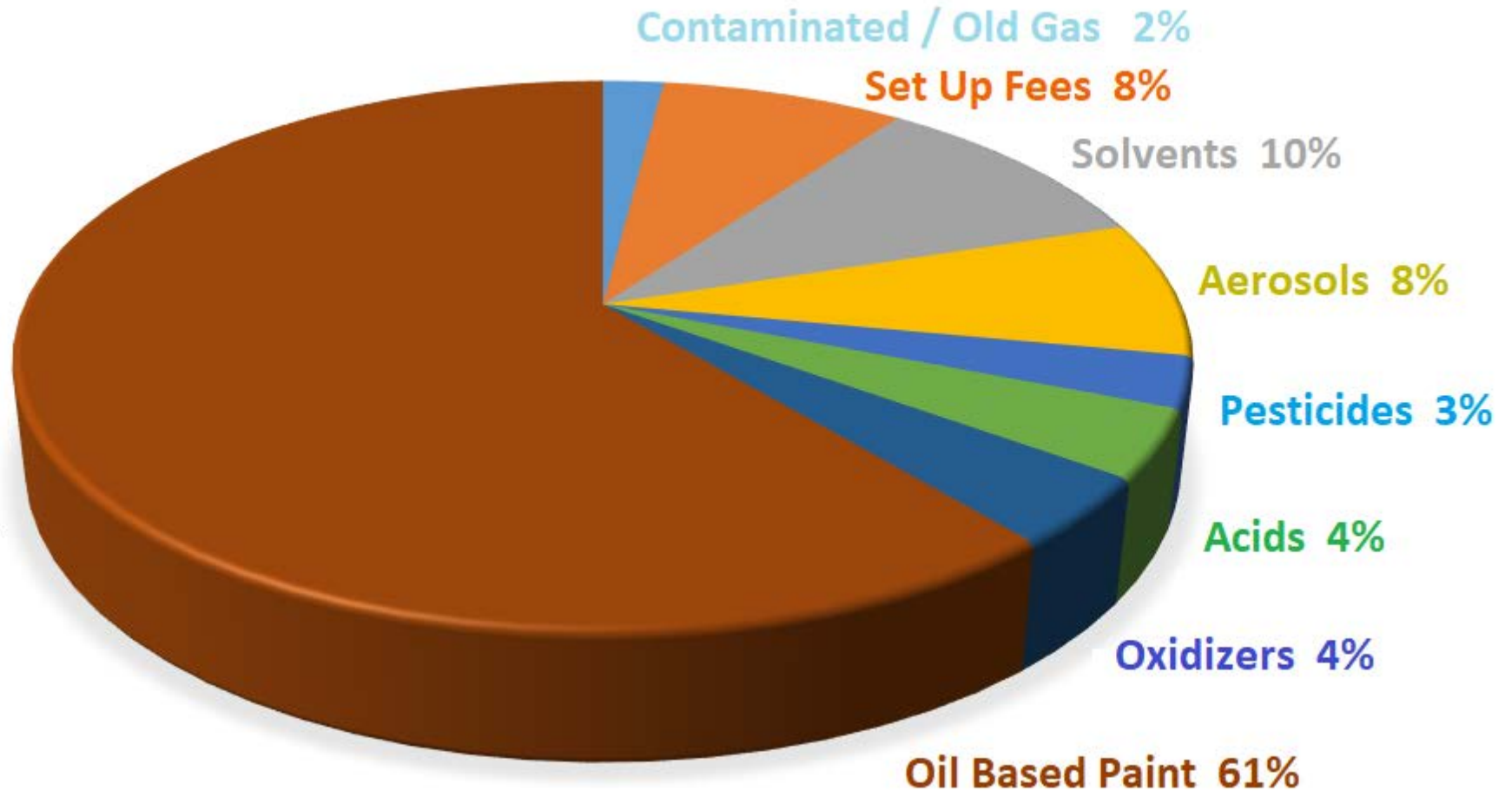
Turn in your unused or expired  
medication for safe disposal

Visit [www.dea.gov](http://www.dea.gov)  
or call 800-882-9539  
for a collection site near you.

Sponsored by the U.S. Drug Enforcement Administration



# THE COST OF PAINT



# Hosting a Successful HHW Event



Five Tips and Tricks





## Getting the Word Out

- Social Media
- Newsletters
- TV/Radio
- Information at the TS
- Vendor Events
- Tax Bills
- Visit local schools
- Partner Organizations

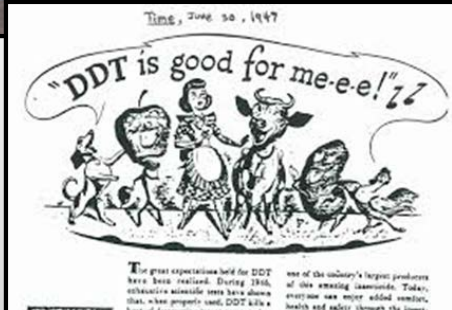
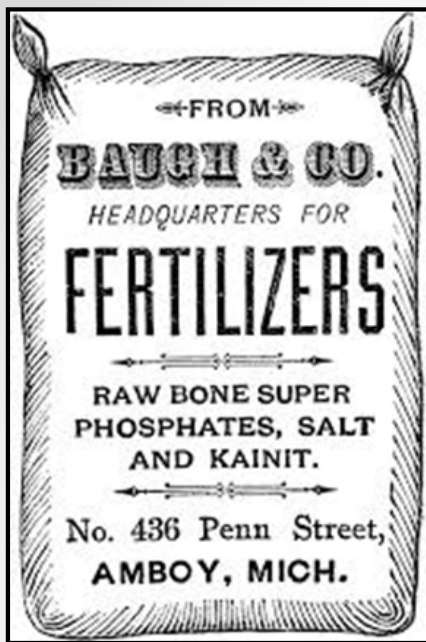




# Know Your Target Audience

- Who is coming to these events?
  - Residents
  - Old/Young/Families
  - Do you have the potential to reach small businesses?
  - What are these people bringing in?





## Prepare for the Unexpected

- In your advertisements include a phone number for people to call in case they have items of concern.
- Give examples!
  - Foreclosure
  - Meth Lab
  - Old Barn Clean out



Education!  
Education!  
Education!

- What is HHW? What is NOT?
- Determine what you can and cannot take.
- Who to EDUATE???
  - Residents
  - Volunteers
  - Workers
  - SW Operators
  - Vendors



Education  
& Outreach

Common  
Goal





## Prep & Landing

- Know your site
- Prepare your site
- Prepare your volunteers and workers ahead of time