

YaleNewHavenHealth

Yale New Haven Hospital

Department of Lab Medicine

HAZARDOUS WASTE TRAINING

MARCH 2020

YNHH Hospital Wastes

- **YNHH Hospital generates many different types of wastes:**
 - Hazardous and nonhazardous chemical wastes, pharmaceutical wastes
 - Universal wastes (e.g., fluorescent lamps, used batteries, used electronics)
 - Used oil
 - Sharps, patient care wastes
 - Radioactive waste
 - General solid waste (paper, food wastes, etc.)
- **Different types of wastes are subject to different standards**
 - Today's training focuses on hazardous waste requirements

Topics for Today

- **Brief Regulatory Background**
- **What is Hazardous Waste**
- **Waste Management Requirements**
- **Hazardous Waste Contingency
Plan/Emergency Response Procedures**
- **Overview of Shipping Wastes Offsite**



EPA

- Regulates hazardous waste on a federal level
- **RCRA** = *Resource Conservation & Recovery Act (1976)*
- **40 C.F.R. 260 – 279**
- EPA grants “Authorization” to state agencies to implement RCRA; states can be more stringent



CTDEEP

(Authorized by EPA)

- Regulates hazardous waste on a state level
- CTDEEP Hazardous Waste Regulations
- Includes most EPA rules with modifications
- **22a-449(c)-100-119**
- More stringent than EPA (e.g., state-specific rules)



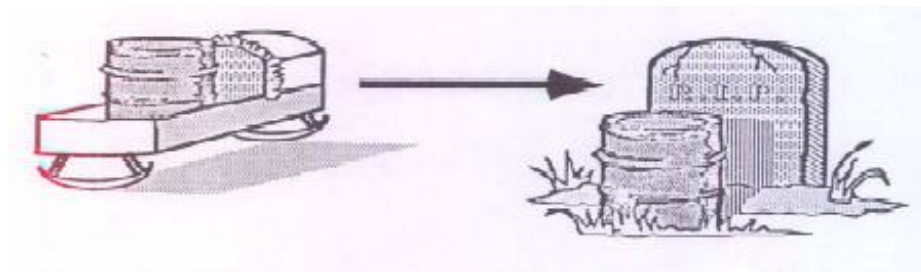
EPA



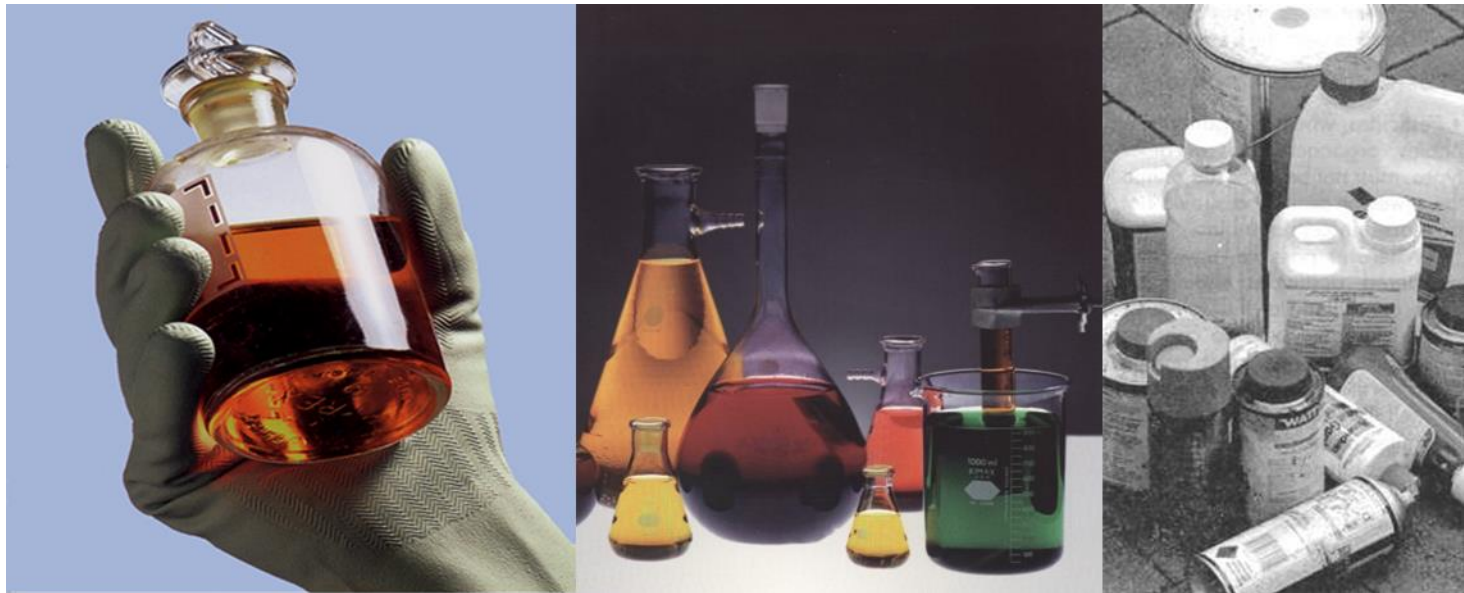
CTDEEP

Intent of these programs: to ensure hazardous waste is managed safely from point of generation to final disposal

***Generator* of waste has “Cradle to Grave” responsibility under these programs**



Identification of Hazardous Wastes

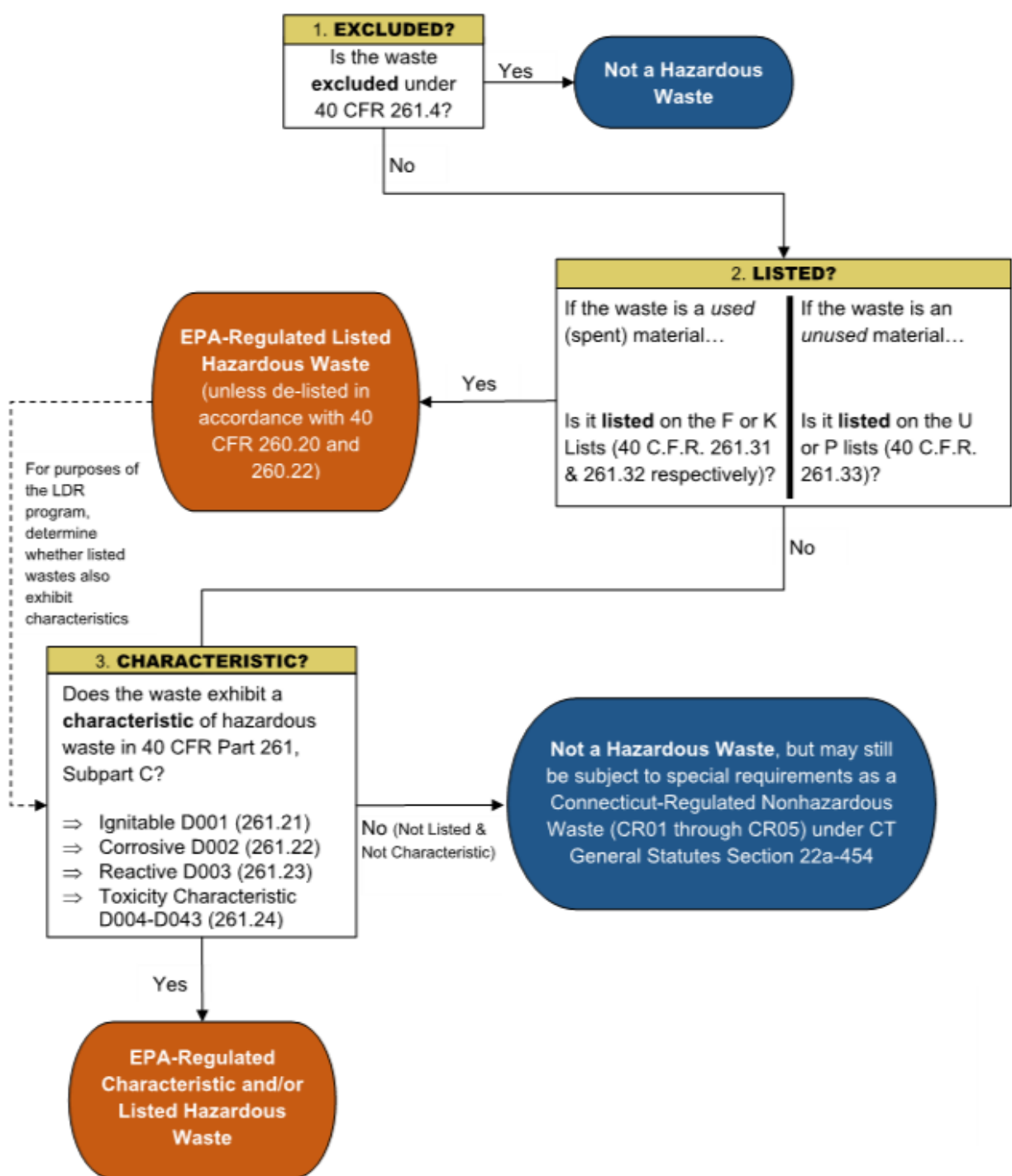


Generator Responsibility

- **All generators must determine if wastes they generate are hazardous by:**
 - Sampling and analysis, or
 - Applying knowledge of waste composition and process used to generate it
- **Must be a “waste” to be a “hazardous waste”**
- **When does a waste become a waste?**
 - Spent materials – when spent
 - Unused materials – no longer usable, no longer intend to use
- **CT DEEP requires generators to evaluate wastes at least once during each 12 month period, or when process generating waste changes**

Definition of Hazardous Waste

1. Waste is not **Excluded** from regulation and is:
2. **Listed** as EPA Hazardous Waste,
 - Includes toxic and/or acutely hazardous wastes
 - Identified with **F**, **K**, **U** or **P** waste codes (F003, U190, etc.)
3. Or exhibits an EPA **Characteristic** of Hazardous Waste
 - Ignitable, Corrosive, Reactive, or Toxicity Characteristic
 - Identified with **D** waste codes (D001, D002, D003, etc.)



Excluded Wastes

■ Examples

- Household wastes
 - Used CFC refrigerants being reclaimed
 - Scrap metal that is sent offsite for recycling
 - Samples until analysis/hold times complete
 - Others
- **If excluded, not subject to regulation**
 - **If not excluded, continue to next step...**

“Listed” Wastes

- **F & K Lists – USED/SPENT Materials Only:**
 - F List (Non-Specific Sources)
 - Includes certain spent cleaning or extraction solvents (F003: xylene, methanol, acetone)
 - K List (Specific Sources – N/A to YNHH)
- **U & P Lists - UNUSED Chemicals Only**
 - Old or unwanted chemicals being discarded
 - Pure or commercial/technical grade chemicals, or
 - Mixtures whose sole active ingredient is U- or P- listed
 - Includes expired chemicals, spill residues, container residues, expired pharmaceuticals
 - **All P-listed wastes are “*acutely hazardous*”**

Examples of YNHH Hospital “Listed” Hazardous Wastes

■ F-Listed Hazardous Wastes

- *Used* lab solvents such as methanol, xylene (F003)

■ U-Listed Hazardous Wastes

- *Unused* laboratory solvents such as xylene (U239) and methanol (U154);
- Waste pharmaceuticals such as Mitomycin (U010); Lindane (U129); Leukeran (U035); Phenaseptic (U188); Selenium Sulfide (U205)

■ P-Listed Hazardous Wastes (*acutely haz*)

- Warfarin/Coumadin (P001); Nicotine (P075); Arsenic Trioxide (P012); Epinephrine (P042)

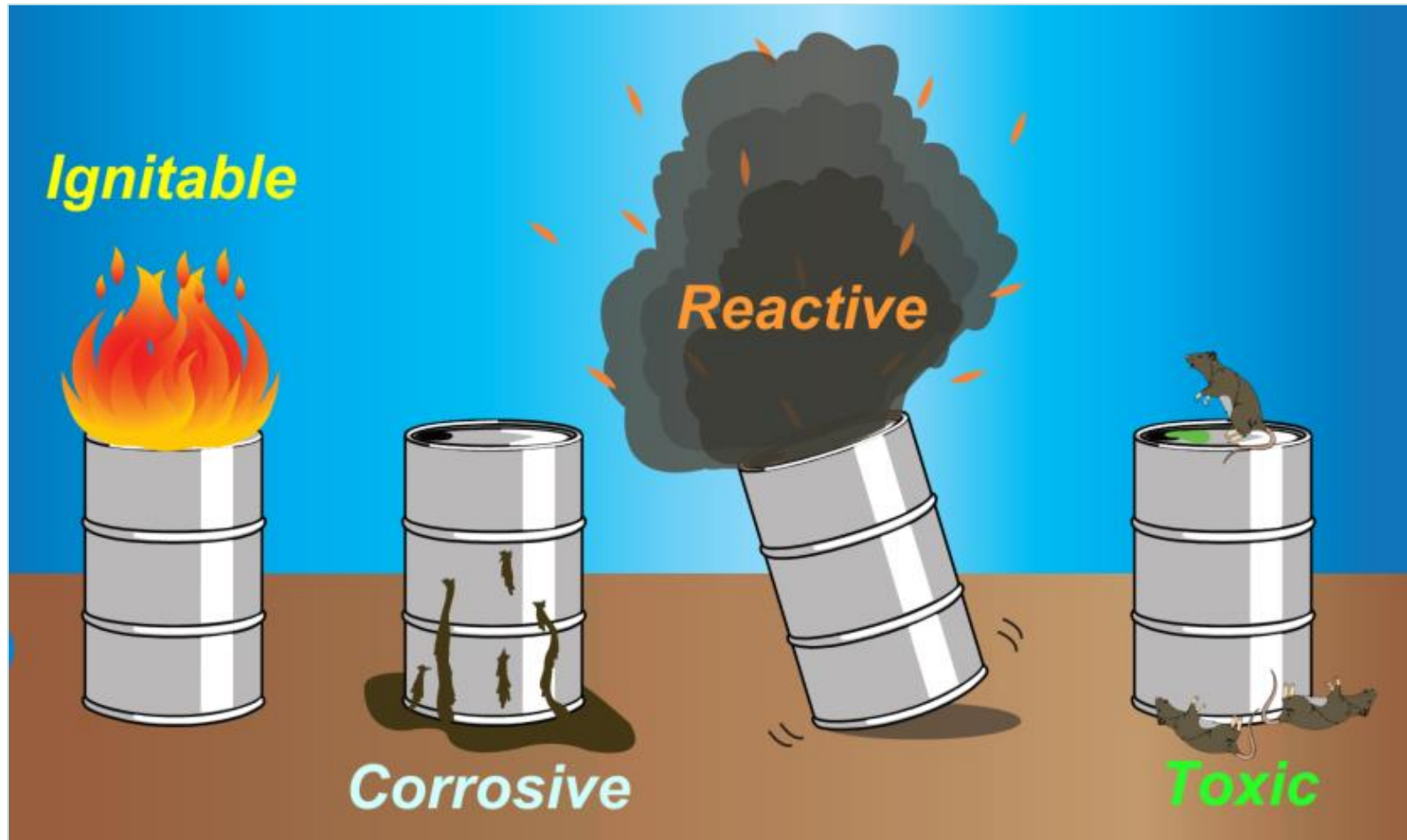
Watch out for unused products that are no longer usable



These could be hazardous wastes



3. “Characteristic” Hazardous Wastes



D001

D002

D003

D004-D043

Ignitable Hazardous Wastes



- **Liquids with Flash Points less than 140°F**
- **Spontaneously Combustible Solids**
- **Ignitable Compressed Gases**
- **Oxidizers**

D001

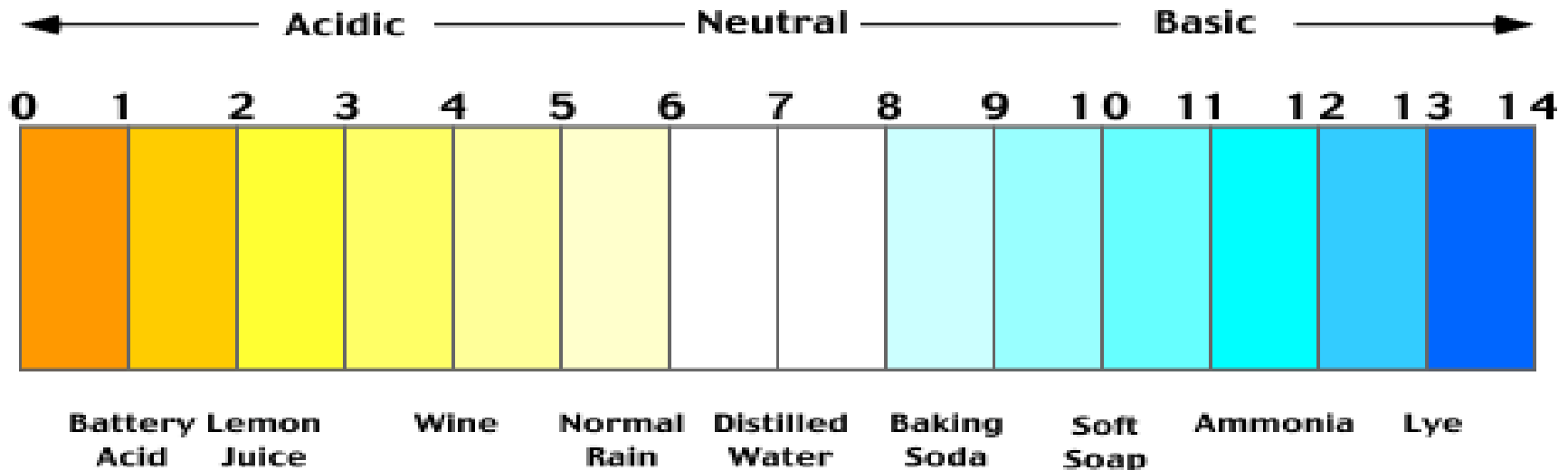
Examples: Methanol, xylene, IPA, mineral spirits, other solvents, oil-based paints, partially full aerosol cans

Corrosive Hazardous Wastes

- Aqueous Solutions with $\text{pH} \leq 2.0$ or ≥ 12.5
- Liquids that Corrode Steel $> \frac{1}{4}$ Inch/Year

D002

Examples: Waste Sodium Hydroxide, Other Bases, Acids



Reactive Hazardous Wastes

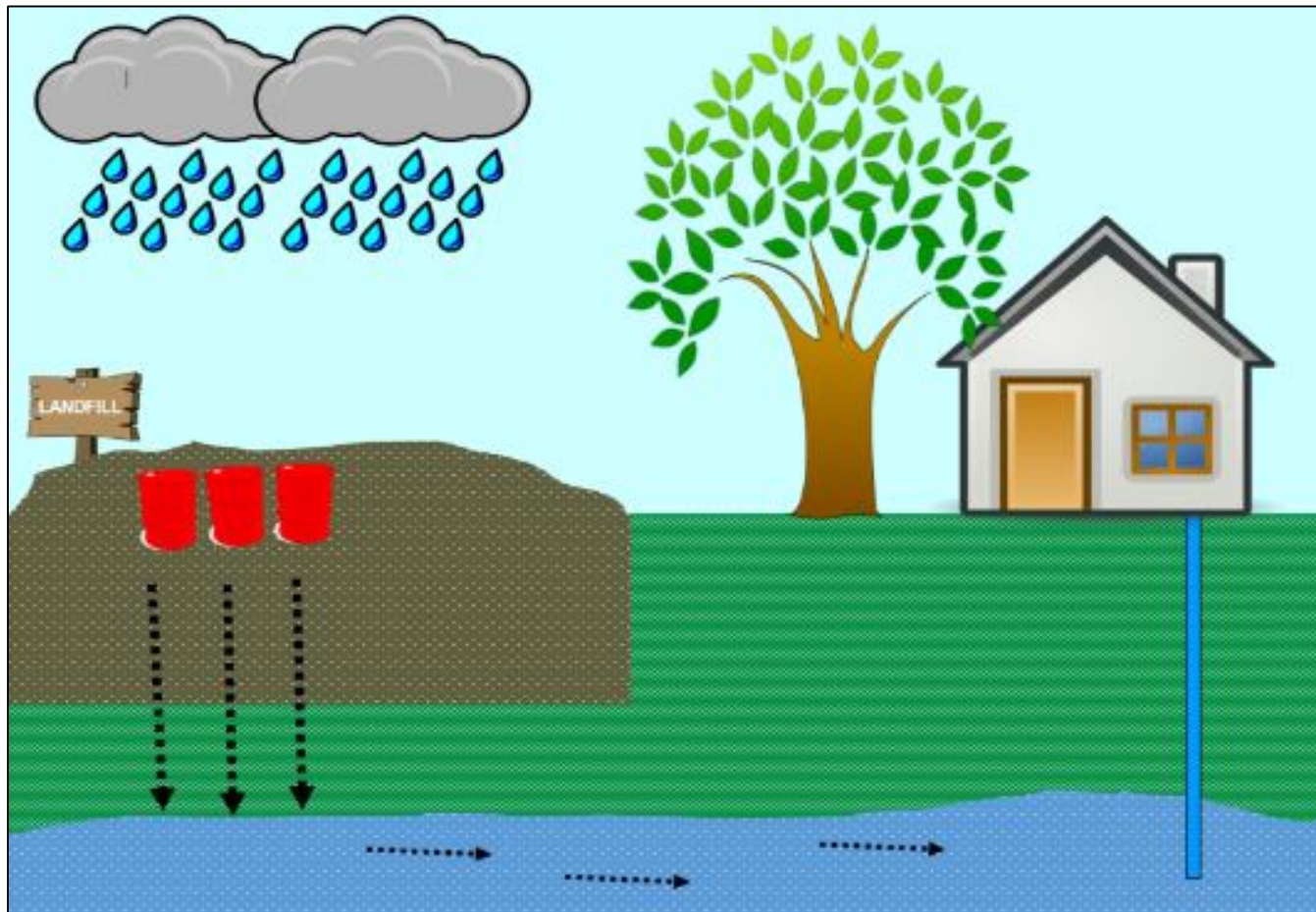
- **Unstable Wastes that Readily Undergo Violent Changes**
- **React Violently With Water**
- **Generate Toxic Gases in Harmful Quantities when Mixed with Water**
- **Certain Cyanide or Sulfide Wastes**
- **Explosives**



D003

Toxicity Characteristic (TCLP)

- Based on potential for groundwater contamination
- TCLP test simulates the conditions in a landfill



**Waste
codes
D004-D043**

Toxicity Characteristic

Metals				Volatile Organic Compounds			
Contaminant	EPA HW #	CAS #	Regulatory Level (mg/L)	Contaminant	EPA HW #	CAS #	Regulatory Level (mg/L)
Arsenic	D004	7440-38-2	5.0	Benzene	D018	71-43-2	0.5
Barium	D005	7440-39-3	100.0	Carbon tetrachloride	D019	56-23-5	0.5
Cadmium	D006	7440-43-9	1.0	Chlorobenzene	D021	108-90-7	100.0
Chromium	D007	7440-47-3	5.0	Chloroform	D022	67-66-3	6.0
Lead	D008	7439-92-1	5.0	1,2-Dichloroethane	D028	107-06-2	0.5
Mercury	D009	7439-97-6	0.2	1,1-Dichloroethylene	D029	75-35-4	0.7
Selenium	D010	7782-49-2	1.0	Methyl ethyl ketone	D035	78-93-3	200.0
Silver	D011	7440-22-4	5.0	Tetrachloroethylene	D039	127-18-4	0.7
Semi-Volatile Organic Compounds				Trichloroethylene	D040	79-01-6	0.5
Contaminant	EPA HW #	CAS #	Regulatory Level (mg/L)	Vinyl chloride	D043	75-01-4	0.2
o-Cresol	D023	95-48-7	200.0*	Pesticides			
m-Cresol	D024	108-39-4	200.0*	Contaminant	EPA HW #	CAS #	Regulatory Level (mg/L)
p-Cresol	D025	106-44-5	200.0*	Chlordane	D020	57-74-9	0.03
Cresol	D026	----*	200.0*	Endrin	D012	72-20-8	0.02
1,4-Dichlorobenzene	D027	106-46-7	7.5	Heptachlor (and its epoxide)	D031	76-44-8	0.008
2,4-Dinitrotoluene	D030	121-14-2	0.13	Lindane	D013	58-89-9	0.4
Hexachlorobenzene	D032	118-74-1	0.13	Methoxychlor	D014	72-43-5	10.0

Examples: Waste pharmaceuticals containing metals, organics

The Mixture Rule

- **Listed hazardous waste + nonhazardous waste = Listed hazardous waste**
 - Example: F005 + waste oil = F005
 - Once listed, always listed
- **In general, don't mix hazardous wastes with other nonhazardous materials**

Empty Container Exemption

- **Empty, for most wastes means:**
 - Remove all wastes that can be removed by normal means (e.g., pouring, pumping, scraping) AND
 - Remaining residue must be
 - < 1 inch, or < 3% of capacity (for containers ≤ 119 gal)
 - If “empty” then nonhazardous
- **For compressed gas, empty when pressure approaches atmospheric**
- **For *acutely hazardous* wastes (all *P-Listed* wastes), container is not empty until triple-rinsed with an appropriate solvent**
 - Bottles, vials, ampules or tubes that previously held a P-listed material **are** hazardous waste (e.g., warfarin)
 - P-listed containers must be collected as hazardous waste

CT DEEP-Regulated *Nonhazardous* Wastes



- **CR01:** Waste containing ≥ 50 ppm PCBs
- **CR02:** Waste oil (fuel oil, lubricating oil, diesel fuel, motor oil, etc.). Waste oil is subject to CT DEEP used oil standards.
- **CR03:** Waste water-soluble oil (cutting oil emulsions, coolants, etc.)
- **CR04:** Waste Chemical Liquids (e.g., latex paint, antifreeze)
- **CR05:** Waste Chemical Solids (e.g., grinding dusts, dried paint waste, etc.)

Only use these codes when no other EPA waste codes apply

Not subject to hazardous waste regulations, but must be stored in a safe manner, shipped via a permitted hauler (typically with a manifest) to a permitted facility, and report spills to DEEP

Typical YNHH Hospital Wastes

- Hazardous waste laboratory solvents (F003, D001)
- Hazardous pharmaceutical wastes (Various codes such as D001, D002, D009, D011, D022, D024, P001, P075, P188, U010, U035, U058, U188, R006)
- Nonhazardous wastes (CR04) such as Formalin and DAB Waste (3,3 Diaminobenzidene)

YNHH Hazardous Waste Regulatory Status

- **Different activities subject to different standards**
 - Generators: Generate HW and ship offsite
 - Cannot treat/store/dispose except as allowed for generators
 - **YNHH is in this category**
 - Transporters: Transport hazardous wastes over public roads
 - Must be permitted by CTDEEP
 - Treatment, Storage, Disposal Facilities: Receive and treat/store/dispose hazardous wastes
 - Must be permitted by CTDEEP

CTDEEP HW Generator Categories

■ CESQG

- Generate ≤ 100 kg/Month Hazardous Waste (~26 gallons)
- Accumulate $< 1,000$ kg onsite
- Generate & Accumulate < 1 kg Acutely Hazardous Waste (or 100 kg acute HW spill residue)

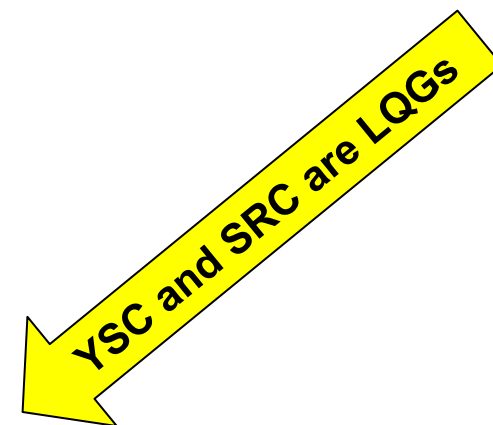


■ SQG

- Generate $< 1,000$ kg/Month Hazardous Waste
- Accumulate $\leq 1,000$ kg onsite
- Generate & Accumulate ≤ 1 kg Acutely HW (or 100 kg acute HW spill residue)

■ LQG

- Generate/accumulate greater $\geq 1,000$ kg/Month Hazardous Waste
- Accumulate $\geq 1,000$ kg onsite
- Generate & Accumulate > 1 kg Acutely HW



HW Generator Responsibilities

- **As an LQG, YNHH must:**
 - Properly identify hazardous wastes
 - Notify CTDEEP & get EPA ID # (one-time, site-specific)
 - **CTD075406561 (YNHH - YSC)**
 - **CTD075406579 (YNHH - SRC)**
 - Properly label, store, and manage wastes on-site
 - Satellite Accumulation
 - Central Accumulation (90-day storage)
 - Comply with emergency preparedness, prevention, response, and contingency planning
 - Hazardous waste training w/annual review
 - Use a licensed HW transporter when shipping off-site (with a manifest) to a licensed HW facility
 - Comply with recordkeeping and reporting

YaleNewHavenHealth

Yale New Haven Hospital

Onsite Waste Management

Hazardous Waste Management



■ Special Requirements for:

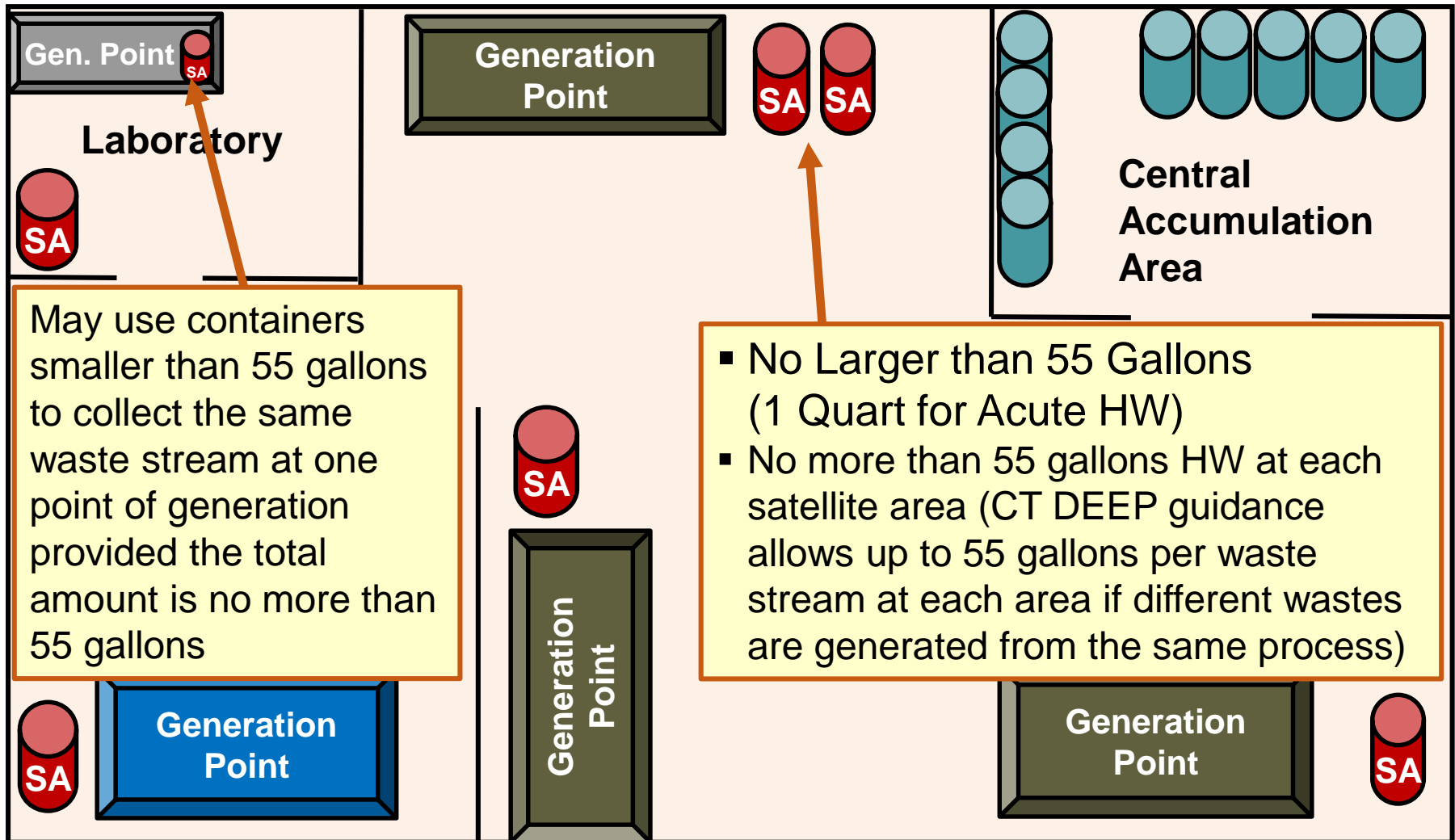
- ***Satellite Accumulation Areas*** - Containers used for collecting wastes at or near the point of generation until the container is filled
 - No storage time limit while waste is being collected
- ***Central Accumulation Areas*** – Any area other than satellite accumulation
 - Allows us to store wastes onsite temporarily for 90-days

At Central Accumulation, clock starts when the first drop of waste is placed into the container



What is Satellite Accumulation?

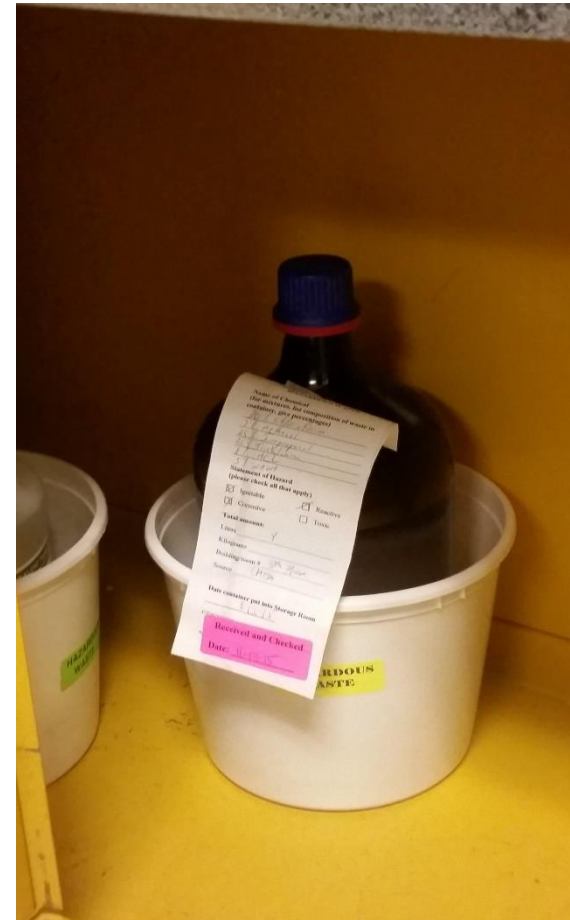
- Container located at or near the point of generation (same room) & under control of operator



Examples – YNHH Satellite Accumulation



Pharm waste on patient floor



Laboratory – chemical wastes

Satellite Accumulation Area Requirements

- **Containers must be:**
 - Compatible with the waste
 - In good condition (not leaking, bulging or dented)
 - Handled in a manner that prevents damage/spills
 - Labeled with:
 - “Hazardous Waste” and
 - Identity of contents (e.g., xylene, flammable solvents, etc.)
 - Kept **closed** except when adding/removing waste
- **When full, mark w/accumulation start date & move w/in 3 days to waste storage room**

HAZARDOUS WASTE

FEDERAL LAW PROHIBITS IMPROPER DISPOSAL.
IF FOUND, CONTACT THE NEAREST POLICE OR PUBLIC SAFETY
AUTHORITY OR THE U.S. ENVIRONMENTAL PROTECTION AGENCY.

GENERATOR INFORMATION:

NAME _____ PHONE _____
ADDRESS _____
CITY _____ STATE _____ ZIP _____
EPA /MANIFEST ID NO. / DOCUMENT NO. _____ / _____
ACCUMULATION START DATE _____ EPA WASTE NO. _____

DOT PROPER SHIPPING NAME AND UN OR NA NO WITH TITLES

HANDLE WITH CARE!

Labels can be any color, size, or format as long as they are clear, legible and complete



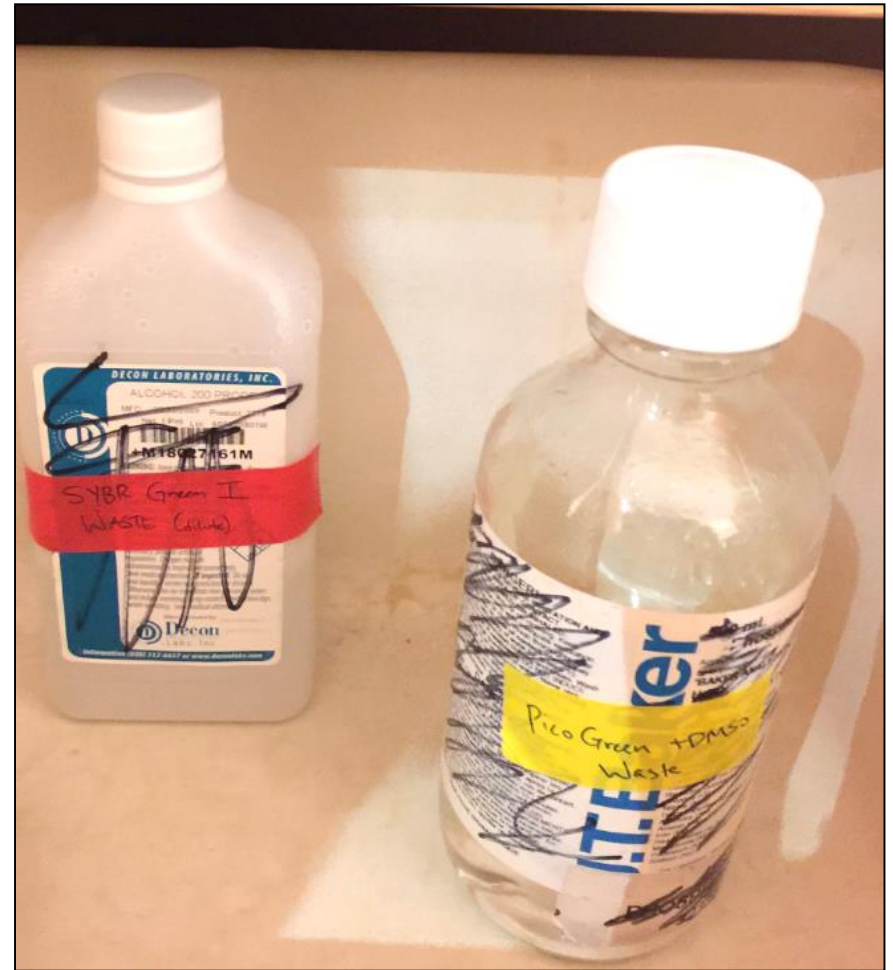
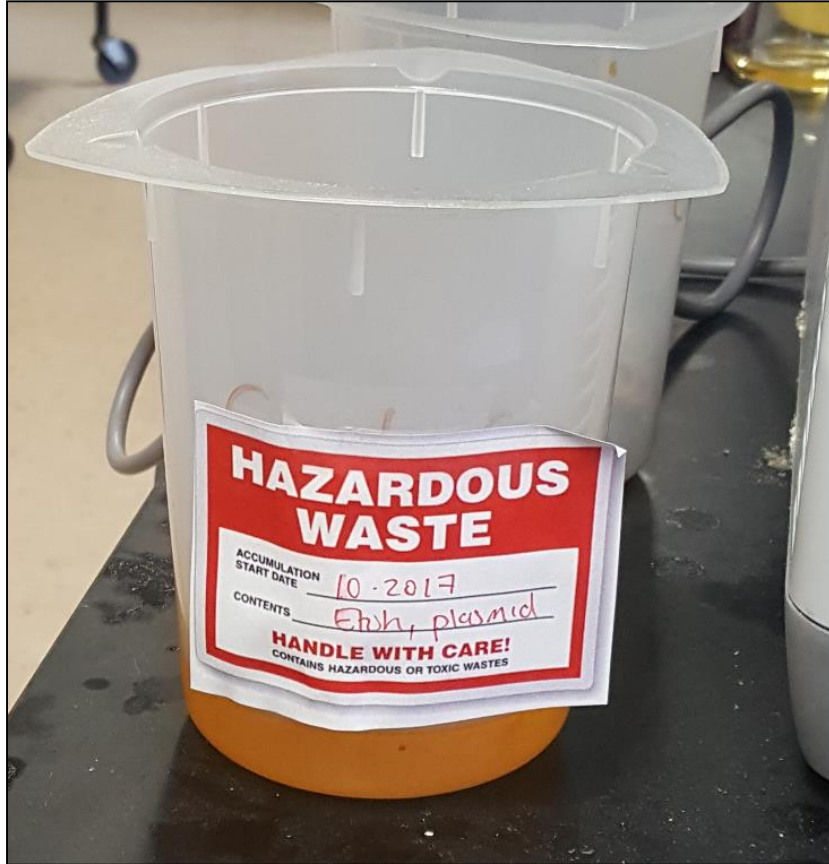
- Must include the required minimum info:
 - “**Hazardous Waste**” and **other words that identify contents**
 - Do not include accumulation start date while collecting waste at satellite accumulation

Watch Out for Open Containers

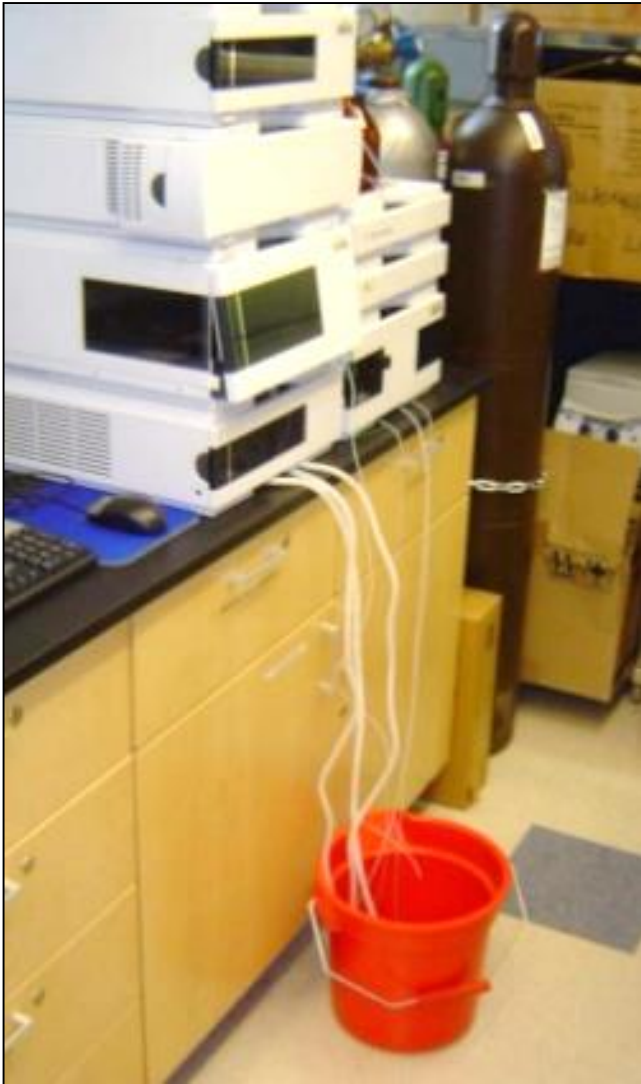
- Make sure containers are closed tightly enough to prevent releases through evaporation, and to prevent spills if tipped over
- These are not closed:



What's wrong with these?



What's wrong with these?



Waste Pick-ups from Satellite

- **Full containers moved from SAA to storage by trained Lab personnel.**
- **Must move directly from satellite to central accumulation**
 - Don't stage containers anywhere

Summary for Satellite Accumulation

- ☑ **At or near the point of generation**
- ☑ **Under control of operator of process**
- ☑ **Good condition**
- ☑ **Compatible**
- ☑ **Closed**
- ☑ **Label “Hazardous Waste” and identity of contents**
- ☑ **Date & move to central accumulation area w/in 3 days of reaching quantity limit**

Central HW Accumulation Area Requirements



Central HW Accumulation Area Management Requirements

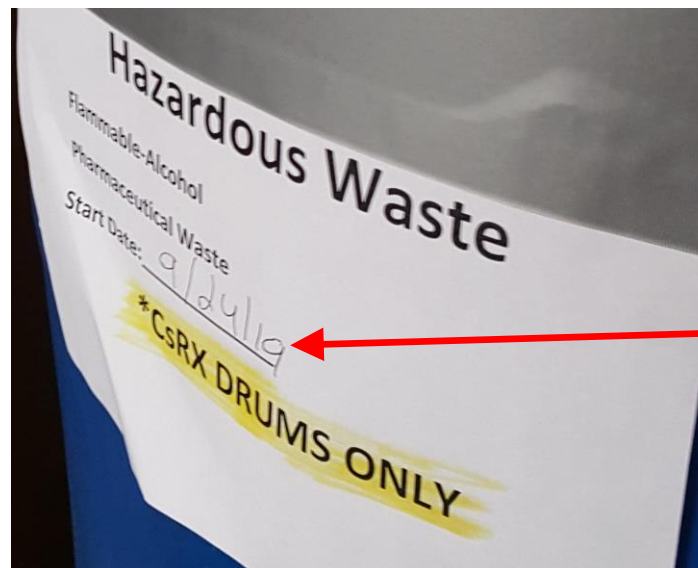
- **Similar to satellite accumulation standards**
 - Closed, compatible, in good condition, etc.
- **Plus additional requirements...**



Container Labeling at Central Accumulation Areas

- **Label Containers***
 - “Hazardous Waste”
 - Identity of contents
 - *Accumulation start date*

The Park Street Lab has two storage areas (PS-657 and PS-526) and the SRC Lab has one storage area (the Boom Room).



**Ship offsite
within 90 days of
accumulation
start date!**



Labels Should be Intact, Clear, Legible, and Include the Required Information



HAZARDOUS WASTE

FEDERAL LAW PROHIBITS IMPROPER DISPOSAL.
IF FOUND, CONTACT THE NEAREST POLICE OR PUBLIC SAFETY AUTHORITY OR THE U.S. ENVIRONMENTAL PROTECTION AGENCY.

GENERATOR INFORMATION:

NAME _____

ADDRESS _____ PHONE _____

CITY _____ STATE _____ ZIP _____

EPA / MANIFEST ID NO. / DOCUMENT NO. _____ / _____

ACCUMULATION START DATE 10-3-2019 EPA WASTE NO. _____

Waste Xylene

D.O.T. PROPER SHIPPING NAME AND UN OR NA NO. WITH PREFIX

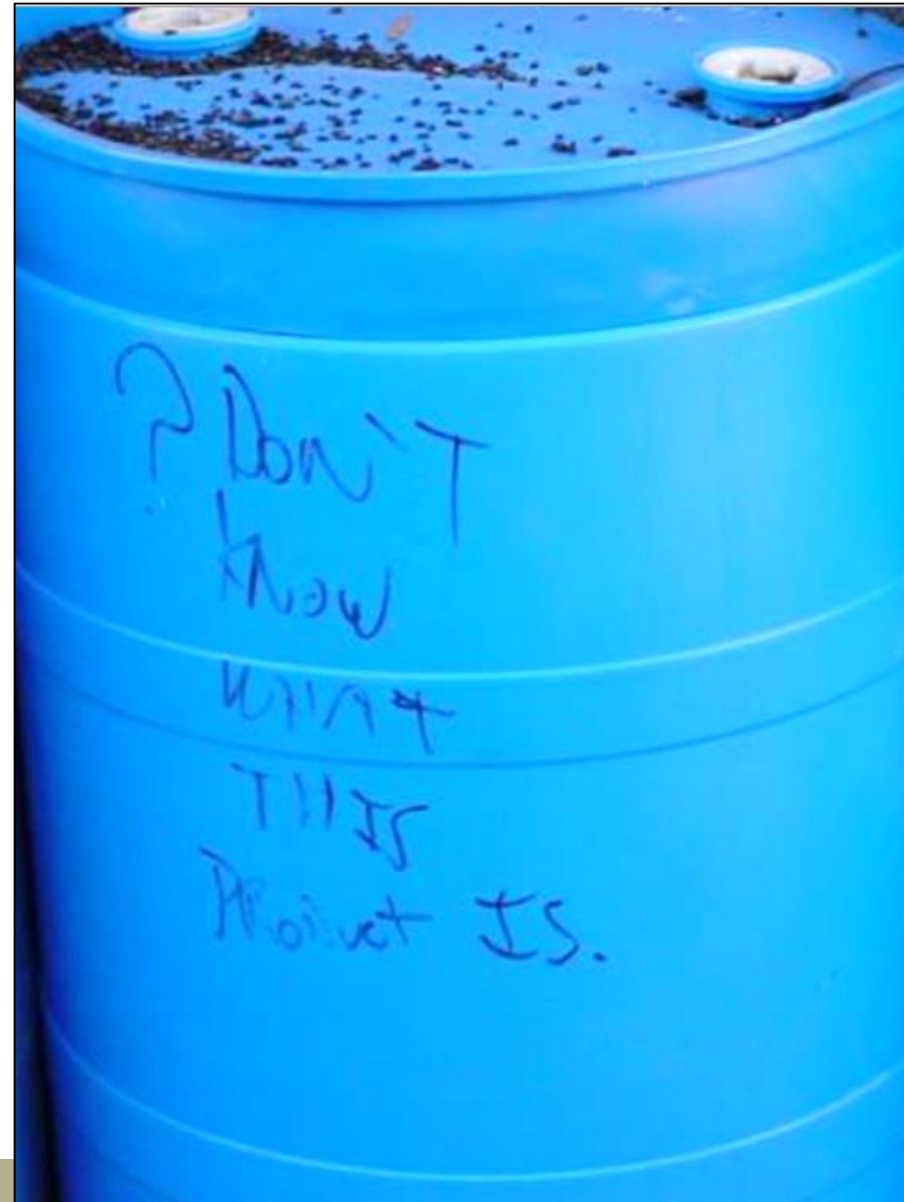
HANDLE WITH CARE!

Bad

Good

Label all Containers

- **Unlabeled containers could result in:**
 - Mixing of incompatibles
 - Hazards to workers
 - Non-compliance
 - Increased need for lab analyses and \$\$\$



Summary - Central HW Accumulation Area Container Management

- ✓ **Good condition**
- ✓ **Compatible**
- ✓ **Closed**
- ✓ **Label**
 - “Hazardous Waste,” identity of contents, and accumulation start date
- ✓ **Secondary containment**
- ✓ **Adequate aisle space**
- ✓ **Precautions for ignitable & reactive wastes**
- ✓ **Separate incompatibles**
- ✓ **Weekly inspections & records**
- ✓ **Onsite < 90 days**

Hazardous Waste Management Plans, Emergency Prevention & Response, and Other Generator Requirements

Hazardous Waste Training for LQGs

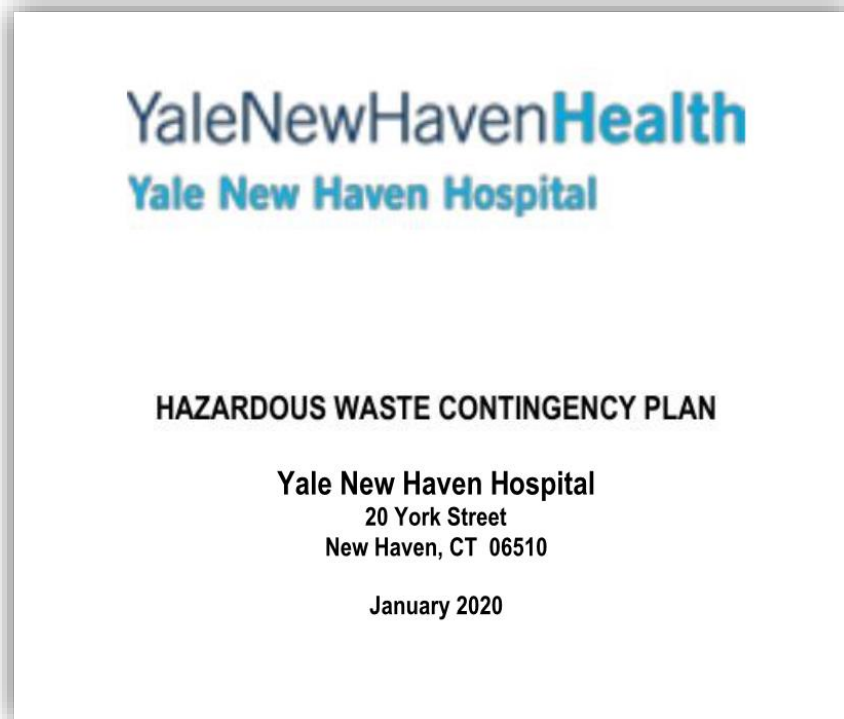
- **Written HW Training Plan**
 - Names & job titles for applicable employees
 - Applicable employee hazardous waste duties, required skills, & education
 - Type & amount of initial & refresher training provided to each employee
- **Train w/in 6 months of employment or assignment to new position (don't work unsupervised until trained)**
- **Annual refresher**



Contingency Plan & Emergency Preparedness, Prevention, Response

■ Hazardous Waste Contingency Plan

- Describes actions to take during an emergency involving hazardous chemicals & wastes



Separate plans have been prepared for YSC and SRC

Contingency Plan

■ **Basic elements of plan:**

- Facility description – chemicals & wastes onsite
- Emergency coordinators & chain of command
- Emergency equipment
- Response procedures
- Evacuation procedures
- Notification requirements & procedures

■ **Plan locations:**

- Onsite at YNHH (EVS office)
- Copies sent to local authorities: Fire & Police

Emergency Coordinators (EC)

- **Coordinate response measures**
- **Familiar with the hospital and onsite or on call (primary & alternates)**
- **Authority to commit resources**
- **Emergency Coordinator:**
 - John Jordan – EVS
 - Alternates:
 - Stephen Branch – EVS, YSC
 - Shahid Abdul-Karim – EVS, SRC

Emergency Equipment

- **Must be immediately accessible at hazardous waste storage areas**
 - Internal and external communication device (e.g., alarm, telephone)
 - Fire extinguishers, fire control equipment, & water at adequate volume & pressure to supply sprinklers, spray systems, etc.
 - Spill control and decontamination equipment
- **Must have adequate supplies, and must be accessible (nearby, not blocked)**
- **Must test/maintain equipment as necessary to assure proper operation during emergencies**



YNHH Hosp. Emergency Response

- ***Incidental response*** only by YNHH personnel



- ***Incidental response*** =
 - Limited in quantity
 - Pose no emergency or threat to safety and health of workers in immediate vicinity
 - Substance can be absorbed, neutralized, or otherwise controlled at time of release by trained employees in immediate area, or by maintenance personnel, without aid of coordinated response effort from employees outside area

Emergency Response

Hazardous Waste Spill

- Leave the area immediately and call 155 at YNHH and SRC, 911 at offsite locations
- Request a First Response Team for [describe the danger, such as a significant spill or smell of a chemical]
- Cordon off the area and prevent anyone from going into the area.
- Final cleanup/disinfection by outside spill response contractor. YNHH's current contractor for hazardous waste emergencies is Stericycle.
- Fire/Explosion – call 155 at YNHH and SRC, 911 at offsite locations

Shipping Hazardous Wastes Offsite



- Use permitted hazardous waste transporter
- Ship only to permitted hazardous waste Treatment, Storage, or Disposal Facility (TSDF)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number		
5. Generator's Name and Mailing Address		Generator's Site Address (if different than mailing address)					
Generator's Phone:							
6. Transporter 1 Company Name			U.S. EPA ID Number				
7. Transporter 2 Company Name			U.S. EPA ID Number				
8. Designated Facility Name and Site Address			U.S. EPA ID Number				
Facility's Phone:							
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		1.	No.	Type			
		2.					
		3.					
		4.					
14. Special Handling Instructions and Additional Information							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name		Signature			Month	Day	Year
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name		Signature			Month	Day	Year
Transporter 2 Printed/Typed Name		Signature			Month	Day	Year
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
Manifest Reference Number:							
18b. Alternate Facility (or Generator)			U.S. EPA ID Number				
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)					Month	Day	Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1.	2.	3.	4.				
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name		Signature			Month	Day	Year

Hazardous Waste Manifest

- Required for all Hazardous Wastes
- Complete properly and legibly
- Do not sign unless received DOT Hazardous Materials Shipping training

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number CTD123456789	2. Page 1 of 1	3. Emergency Response Phone (800)424-9300	4. Manifest Tracking Number 019278670 JJK
	5. Generator's Name and Mailing Address Wolcott Widgets, Inc. 56 Hopkins Highway Adams, CT 45320 Generator's Phone: (203)704-1776		Generator's Site Address (if different than mailing address)	
6. Transporter 1 Company Name Huntington Hauling, Inc.		U.S. EPA ID Number CTD000654321		
7. Transporter 2 Company Name		U.S. EPA ID Number		
8. Designated Facility Name and Site Address Treat-It, Inc. 17 Patrick Street Wastebury, CT 02181 Facility's Phone: (203) 555-1212		U.S. EPA ID Number CTD123123123		

Who is involved? 

What is involved? 

GENERATOR

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1. RQ, UN1993, Waste Flammable Liquid, n.o.s. (toluene, xylene), 3, PGII (D001)	4	DM	220	G	F005	F003	D001
X	2. UN1832, Waste Sulfuric Acid, Spent, 8, PGII	3	DF	165	G	D002		
X	3. RQ, NA3077, Hazardous Waste Solid, n.o.s., (barium, chromium), 9, PGIII (D005, D007)	4	DM	1,600	P	D005	D007	
	4. Spent Oil, Not a DOT-Regulated Hazardous Material	1	DM	55	G	CR02		

14. Special Handling Instructions and Additional Information
9b1. ERG 128; 9b2. ERG 137; 9b3. ERG 171

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
 I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name Jenna Raytor	Signature <i>Jenna Raytor</i>	Month 10	Day 18	Year 18
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TRANSPORTER INT'L

16. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____
 Transporter signature (for exports only): _____ Date leaving U.S.: _____

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number: _____

18b. Alternate Facility (or Generator) _____ U.S. EPA ID Number _____
 Facility's Phone: _____

18c. Signature of Alternate Facility (or Generator) _____ Month _____ Day _____ Year _____

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. _____	2. _____	3. _____	4. _____
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20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name	Signature	Month	Day	Year

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

Do not sign unless received current DOT shipping training

Manifest Record Keeping

- Generator keeps copy
- Transporter & TSDf keep copy
- TSDf sends copy to EPA (electronically or by mail) and pays e-manifest user fees
- TSDf mails copy to generator (if generator not using e-manifest)
- Generator: **make sure copy rec'd from TSDf within 35 days**
 - If not received, track & locate waste
 - File exception report if no manifest copy w/in 45 days
- **Keep for 3 years**

Questions?

