

Inspection Panel: Common Violations and How to Avoid Them

Jim Ferritto
Waste Characterization Specialists
Michigan Department of Environmental
Quality

Inspection Panel

- Wade O'Boyle, Grand Rapids
- Mary Ann St. Antoine, Marquette
- Jenny Bennett, Gaylord
- Jill Coulter, Lansing

Common Generator Violations

- Waste Characterization
- Waste Accumulation and Handling
- Recordkeeping
- Training

Q: What is it?
A: It's just water
(& some other stuff)

Waste Characterization

WADE O'BOYLE

It's just Water?



It's just Water?

Meijer > Grocery > Beverages > Water > Sparkling > Sparkling Ice Black Cherry Sparkling Water, 17 oz



Sparkling Ice Black Cherry Sparkling Water, 17 OZ

\$1.00 /ea

Deposit

Available (check nearby stores)
Your Store Info

Available In-Store Only

Add to List | Favorites

Ingredients

Carbonated Water, Natural Flavors, Apple Juice Concentrate, Malic Acid, Cherry Juice Concentrate, Potassium Benzoate (To Ensure Freshness), Citric Acid, Sucralose, Red 40, Green Tea Extract, Biotin 1% Trit, (Maltodextrin), Niacinamide (B3), D-Calcium Pantothenate (B5), Vitamin B12 0.1% (Mannitol), Vitamin D3, Pyridoxine Hcl (B6), Blue 1.

It's just Water?

vitaminwater

vitaminwater zero reset

tastes just like a piña colada but zero regrets in the morning

excellent source of c and b vitamins

- 100% antioxidant vitamin c
- 100% vitamins b5 b6 b12
- potassium
- electrolytes

per bottle, see nutrition facts for more details

ingredients

reverse osmosis water, less than 1.5% of: erythritol, monopotassium phosphate and di-potassium phosphate and magnesium lactate and calcium lactate (electrolyte sources), natural flavors, citric acid, vitamin C (ascorbic acid), stevia leaf extract, vitamin B3 (niacinamide), vitamin B5 (calcium pantothenate), vitamin B6 (pyridoxine hydrochloride), vitamin B12 (cyanocobalamin), gum acacia, glycerol ester of rosin, medium chain triglycerides, betacarotene (for color)

flavored + other natural flavors

It's just Water?



CLICK HERE
for more detailed
analysis or call us
toll free at
800 678-4423

2016 Water Analysis Report

ICE MOUNTAIN®
NATURAL
SPRING WATER

SUBSTANCE	MINIMUM REPORTING LEVEL	FDA SIG/EPA MCL	REPORTED RESULTS
Inorganic Minerals and Metals			
Calcium	0.10	NR	4.1-59
Sodium	0.20	NR	1.2-19
Potassium	0.10	NR	ND
Fluoride	0.100	2.0(1.4-2.4)	ND
Magnesium	0.10	NR	1.5-22
Nitrate	0.010	10.00	ND-2.3
Chloride •	0.10	250	1.2-14
Copper	0.050	1.0	ND
pH (units) •	NA	6.5-8.5	6.8-8.1
Sulfate •	0.10	250	2.1-38
Arsenic	0.0014	0.010	ND
Lead	0.005	0.005	ND
Total Dissolved Solids •	1.0	500	38-260

All units in (mg/l) or Parts per Million (PPM) unless otherwise indicated.

• EPA Secondary Standard - non-enforceable guidelines regulating contaminants that may cause cosmetic or aesthetic effects in drinking water

† Set by California Dept. of Health Services

<http://www.tampabay.com/news/environment/water/the-water-in-a-bottle-can-spring-from-just-about-anywhere/418792>

https://www.nestle-watersna.com/asset-library/publishingimages/brands/ice%20mountain/icemountain_water_analysis.png

It's just Water?

WHAT'S INSIDE

CAFFEINE + TAURINE + B-GROUP VITAMINS +
SUGARS + ALPINE WATER.

Red Bull Energy Drink's special formula contains high quality ingredients.



It's just Water?

Brewed with **100% Centennial hops** from the Pacific Northwest and **named after the Two Hearted River in Michigan's Upper Peninsula**, this IPA is bursting with hop aromas ranging from pine to grapefruit from massive hop additions in both the kettle and the fermenter.

Perfectly balanced with a malt backbone and combined with the signature fruity aromas of Bell's house yeast, this beer is **remarkably drinkable and well suited for adventures everywhere.**

Alcohol By Volume: 7.00%

Original Gravity: 1.07

Shelf Life: 6 Months

NUTRITIONAL INFORMATION (PER 12 OZ. SERVING)

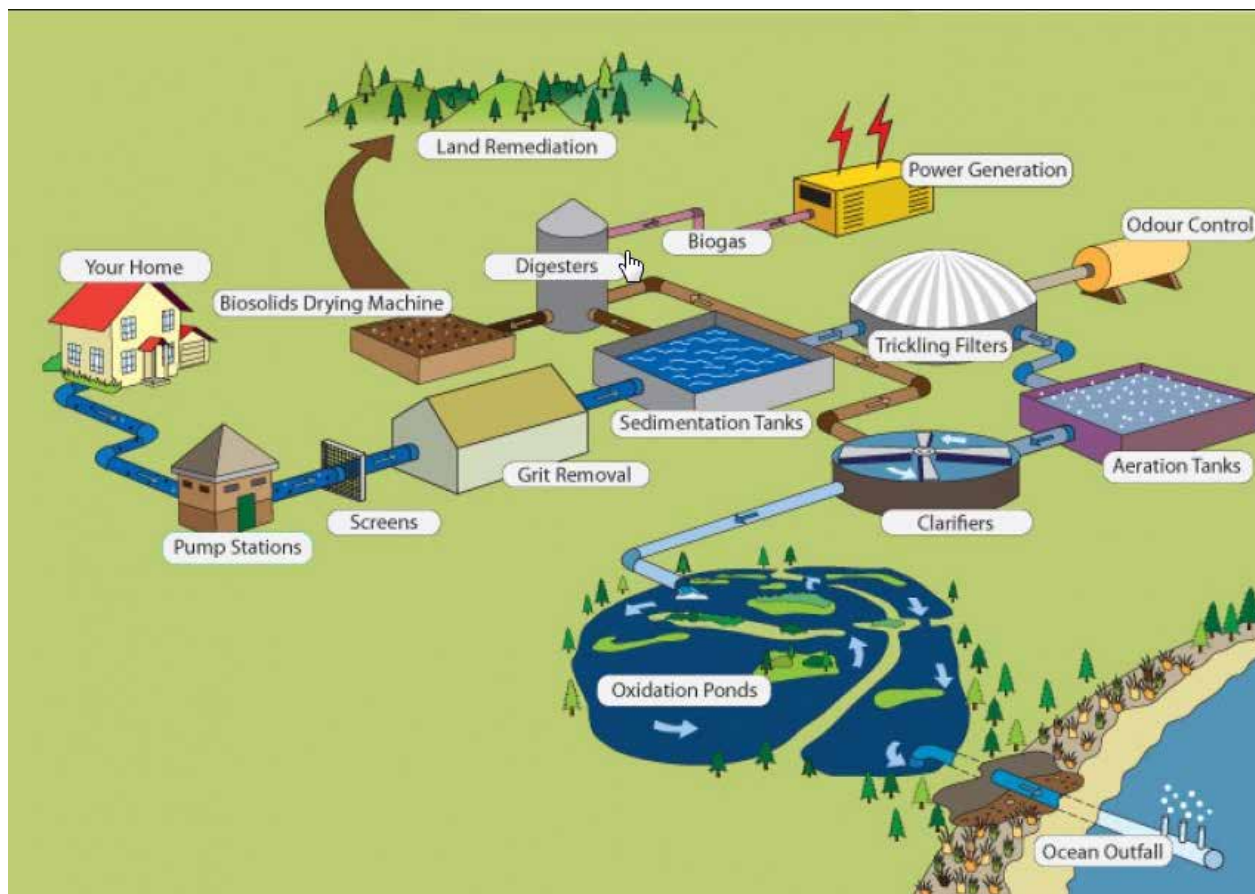
Calories: 212

Carbs: 17



<https://www.bellsbeer.com/beer/year-round/two-hearted-ale>

It's just Water? (& some other ??!)



Q: What is it?

A: It's just water (& some other stuff)

“Waste characterization”

- I use “water” to illustrate that specifics or characterization is important.
- In the context of waste or byproducts, when someone says, “it’s just water (dirt, wood, etc.)”, I have many questions (e.g. knowledge, tests, etc.).
- All of the examples are generally speaking, “just water”, but also take on individual identities.
- Details make all the difference (& some other stuff) :
 - Fishy water, carbonated flavored water, water with flavoring & vitamins, spring water (contains carbonates, iron, etc.), caffeine etc. , flavored water & alcohol, and waste water.
 - **It's NEVER JUST WATER!**

Generators of Hazardous Waste have “Cradle to Grave” responsibility!!!

Think about WHEN AND WHERE a Product or Chemical would be considered a “waste” (This is a time and a place!).



Gum Note: Nicotine is a listed Hazardous Waste P075 “acute hazardous waste”



The Riddle of the Sphinx:

"What walks on four legs in the morning, two legs in the afternoon, three legs in the evening, and no legs at night?"



Hazardous Waste	
FEDERAL LAW PROHIBITS IMPROPER DISPOSAL	
If found, contact the nearest police or public safety authority, and the Washington State Department of Ecology or the Environmental Protection Agency	
Accumulation Start Date:	Generator Name:
Reportable Quantities (RQ): <small>40 CFR Subchapter J, Part 302, Table 302.4</small>	Address:
Manifest Document #:	City:
Emergency Response Guide #:	State:
EPA Waste Code(s) and/or Characteristic(s)	Zip:
	EPA ID #:
EPA/DOT Shipping Name:	
Hazard Class:	
UNNA #:	
Packing Group (PG):	
In the event of a spill or release of this hazardous waste, contact the US Coast Guard National Response Center at 1-800-424-8802 for information and assistance.	

Know your own Waste & Manage it Properly

Hazardous because:

1. Listed
2. Characteristic (test)

You know because:

1. Knowledge
2. Tests

Know your own Waste & Manage it properly

- The KEY- Documentation! Documentation!
Documentation!
- **If Hazardous- WHY?** Document!!! Include knowledge AND lab results (always representative sampling)
- **If Non-Hazardous- WHY?** Document!!! Include knowledge AND lab results (always representative sampling)

Waste Characterization Record

To meet the waste characterization recordkeeping requirements in rules:

- Create a record that details your answers to the waste characterization questions asked in Rules 212 and 213
- Detail must thoroughly document your determination
- Detail are in addition to the records necessary for OSHA safety
- Records should be assembled and readily available at the site of generation for each waste stream

Waste Characterization Record

Waste characterization record should include:

- waste type/name
- narrative description of the waste
- source of waste
- test result(s) obtained from sampling and analyzing the waste
- description of the sampling procedure(s) used for waste testing
- details on how the sample was determined to be representative of the waste stream
- a copy of Safety Data Sheets (SDS) or other reference materials relied upon for making the waste determination, including calculations used to evaluate subpart BB and CC applicability (to determine the ppmv volatile organic compound content of the waste)



**If it looks like a duck, sounds like
a duck, and walks like a duck,
it's not a horse**

Waste Protected from Weather, Fire, Physical Damage and Vandals

Mary Ann St. Antoine

Michigan weather: predictably unpredictable



Rules require that the generator ensures that the area where the waste is accumulated is protected from weather, fire, physical damage, and vandals.





Look up! Damage from falling ice



Damage from snow plows and careless drivers



Vandals



Keep IBC Totes, drums and containers stored securely away from driveways, alleys and public access.

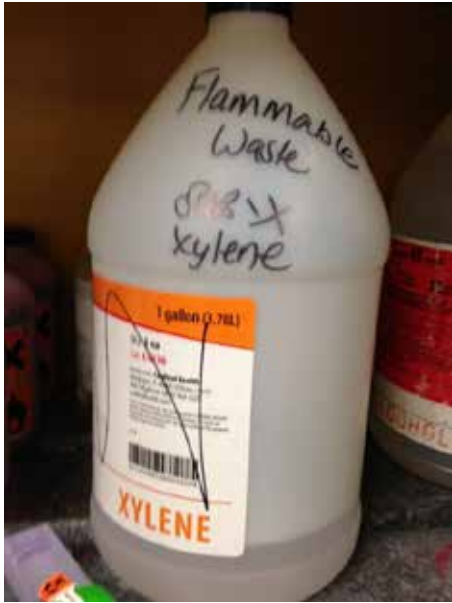




Good Housekeeping Prevents Fires



Fuel for fires



Ignition Source



Ignition source



Fire, Explosion or Discharge



Fire, Explosion or Discharge



Fire, Explosion or Discharge



Labeling & Closed Containers

AKA

Where's My Label?
and
How Closed is Closed?

JENNY BENNETT

Where's My Label?

Great Question...

- On the shelf above the accumulation containers?
- Stapled to my transporter's invoice?
- Filed with last year's tax documents?
- Locked in the office of a staff member on extended leave?



Satellite or 90/180 Day Accumulation Area









How Closed is Closed?

- Why would the regulations require my container to be closed?
- What am I trying to prevent?
- How can I make it easier for my employees to comply?
- How can I be more efficient?

Liquid vs Solid?

Access Needed Multiple Times per Day or Once per Week?













Accumulated Happily Ever After!

(actually 270 days or less,
depending on your
generator status &
location, unless you are a
CESQG)

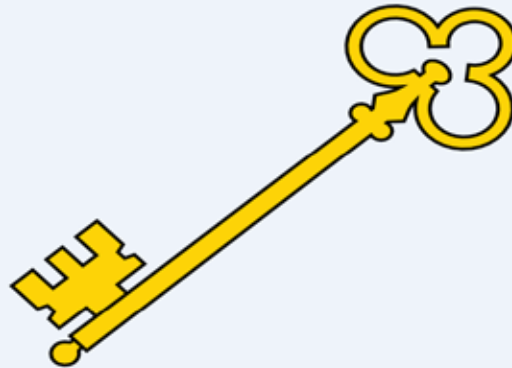


www.shutterstock.com - 256255489

Training

Hazardous Waste
Part 111

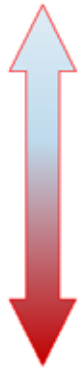
KEY to
Success



JILL COULTER

Hazardous Waste Generator Compliance Summary

Less Regulation



Conditionally Exempt Small Quantity Generators

Small Quantity Generators

Large Quantity Generators

More Regulation

DEQ Michigan Department of Environmental Quality
Office of Waste Management and Radiological Protection

SUMMARY OF HAZARDOUS WASTE GENERATOR ACCUMULATION REQUIREMENTS

Guidance

The following is a summary of Hazardous Waste Generator requirements as it applies to:

- Conditionally Exempt Small Quantity Generators (CESQGs) and Liquid Industrial By-Product (LIB) Generators
- Small Quantity Generators (SQGs)
- Large Quantity Generators (LQGs)

Requirement For:	CESQG and Liquid Industrial By-Product	SQG	LQG
Off-site treatment, storage or disposal destination for waste	Licensed solid waste disposal facility (landfill); Licensed industrial by-product (designated facility) (ignition); Licensed or exempt recycler; or Licensed hazardous waste facility; AQS, universal waste handler or universal waste destination facility for hazardous waste managed as universal waste.	Licensed hazardous waste facility; or exempt hazardous waste recycling facility; AQS, universal waste handler or universal waste destination facility for hazardous waste managed as universal waste.	Licensed hazardous waste facility; or exempt hazardous waste recycling facility; AQS, universal waste handler or universal waste destination facility for hazardous waste managed as universal waste.
Maximum Time Period Before Waste Must Be Shipped	No time limit if 2,200 pounds of non-white hazardous waste is not exceeded.	180 days, unless shipping over 200 miles, then 270 days. Storage beyond time period requires a hazardous waste license for storage.	90 days and storage beyond time period requires a hazardous waste license for storage (unless meeting Rule 300.7).
Maximum Amount Of Hazardous Waste That Can Be Accumulated On-site	2,200 pounds non-white and/or 2.2 pounds of 102 waste. If exceed 2,200 pounds non-white, subject to SQG requirements. If exceed 2.2 pounds acute, subject to LQG requirements.	13,200 pounds non-white and/or 2.2 pounds of 102 waste, if exceed 13,200 pounds non-white, requires a hazardous waste license for storage. If exceed 2.2 pounds acute, subject to LQG requirements.	No maximum amount.
On-site Treatment, Storage, and Waste Analysis Plan	CESQGs can treat on-site and are not subject to Rule 303. Facilities with waste discharged to a POTW (municipal sanitary sewer system) authorized under the Clean Water Act) may need wastewater operator certification depending on process, require POTW approval for discharge, and require records of disposal.	On-site treatment is allowed without a hazardous waste license if conditions in Rule 303 or Rule 306 of the Part 111 rules are met. Facilities with waste discharges to a POTW may need wastewater operator certification depending on process, require POTW approval for discharge, and require records of disposal. LQGs doing on-site treatment must have Waste Analysis Plan and keep records to meet Land Disposal Restrictions.	On-site treatment is allowed without a hazardous waste license if conditions in Rule 303 or Rule 306 of the Part 111 rules are met. Facilities with waste discharged to a POTW may need wastewater operator certification depending on process, require POTW approval for discharge, and require records of disposal. LQGs doing on-site treatment must have Waste Analysis Plan and keep records to meet Land Disposal Restrictions.
Site/EPA Identification Number	No	Yes	Yes

800.662.9278 www.michigan.gov/requirements October 2016

Web Resources

- Go to www.michigan.gov/deqwaste
Select “Hazardous” tab on the left
Select “Hazardous and Liquid Industrial Waste Management” to access resources and statutes/rules
- Go to www.michigan.gov/deqretail

Self Certification Form

Trainer Training - Recorded Webinars

MDEQ Hazardous Waste Management & Regulations Webinar Series Hazardous Waste Generator Trainer - Self Certification	
I, _____, certify that I have viewed the entirety of the Michigan Department of <div style="text-align: center; font-size: small; margin-top: -10px;"> Print signatory's name here </div>	
Environmental Quality (MDEQ), Hazardous Waste Webinars listed below related to the waste training program(s) for which I am responsible to gain a general understanding of the hazardous waste and liquid industrial by-product generator requirements under Part 111, Hazardous Waste Management, and Part 121, Liquid Industrial By-product of the Michigan Natural Resources and Environmental Protection Act, Act 451 of 1994, as amended, and the rules promulgated thereunder. I recognize that this information is essential for me to evaluate the need for additional site specific compliance measures and training as part of a site-specific hazardous waste training program. I recognize that additional site-specific staff training is necessary for on-site personnel to properly perform their daily duties related to the generation and management of hazardous waste. I further recognize that the MDEQ training does not adequately cover hazardous waste tank or Subpart CC requirements, and that additional independent training is necessary for those topics.	
Waste 101, September 27, 2016 _____ Signature Date Viewed Universal Waste, November 16, 2016 _____ Signature Date Viewed Waste Characterization and Generator Status, January 18, 2017 _____ Signature Date Viewed Used Oil, February 23, 2017 _____ Signature Date Viewed Waste Accumulation and Labeling, March 22, 2017 _____ Signature Date Viewed	Waste Recordkeeping & Inspection, April 18, 2017 _____ Signature Date Viewed Conditionally Exempt Small Quantity Status, May 18, 2017 _____ Signature Date Viewed 2017 Part 111 Rule Changes, June 20, 2017 _____ Signature Date Viewed <div style="font-size: small; margin-top: 10px;"> Diligent attention was given to assure that the information presented in the webinar series is accurate as of the date of delivery; however, there is no guarantee, expressed or implied, that use of this webinar series will satisfy all regulatory requirements mandated by the regulations and their respective enforcement agencies. Reliance on information from this webinar series is not usable as a defense in any enforcement action or litigation. Viewers are encouraged to also review the relevant statutes and administrative rules which can be accessed through the webinar notes provided for the webinar series or at www.michigan.gov/deq/waste. </div>

DEQ Guidebook

Go to
www.michigan.gov/ehsguide

The screenshot shows the DEQ website with a navigation bar at the top containing links for DEQ, Contacts, Permits, Online Services, Programs, Locations, and MI.gov. Below the navigation bar is a search bar and a horizontal menu with categories: ABOUT THE DEQ, AIR, LAND, WASTE, WATER, and SUSTAINABILITY. The main content area features the title "Michigan Guide to Environmental, Health, and Safety Regulations (June 2016)" and a small image of the guidebook cover. The text describes the guidebook as a joint publication of the Michigan Department of Environmental Quality (DEQ) and the Michigan Department of Licensing and Regulatory Affairs (LARA). It mentions that the guidebook is subdivided into three main sections: Environmental Regulations, Michigan Occupational Safety and Health Act (MIOSHA) Standards, and Construction and Fire Codes. It also mentions a "Self-Assessment Survey" tool. There is a call to action to sign up for notifications and a section for ordering hard copies. At the bottom, there is a list of electronic files available for download, including an Introduction, Table of Contents, How to Use the Guidebook, and a Self-Assessment Survey (pdf). A list of chapters is also provided, covering topics from Air Quality Regulations to Drinking Water.

DEQ

Michigan Guide to Environmental, Health, and Safety Regulations (June 2016)

The "Michigan Guide to Environmental, Health, and Safety Regulations" is a joint publication of the Michigan Department of Environmental Quality (DEQ) and the Michigan Department of Licensing and Regulatory Affairs (LARA). Manufacturers, suppliers, consultants, and regulators can all benefit from this guide, which steers the reader through the maze of state and federal environmental, health, and safety regulatory programs. Although some reference is made to local building and fire codes, local requirements are not discussed in the guidebook in any detail. Be sure to contact your local government officials for information on applicable local requirements.

The guidebook is subdivided into three main sections: Environmental Regulations, Michigan Occupational Safety and Health Act (MIOSHA) Standards, and Construction and Fire Codes. Each chapter within each section targets a specific regulatory program. This Web site contains a complete version of the guidebook and allows you to download it by chapter. The "Self-Assessment Survey" is a tool you can use to find which regulations are applicable to your specific operation. Simply answer each question in the survey "yes" or "no" to be directed to the portions of the book relevant to your business.

We would like your feedback on this guidebook. If you have comments or suggestions on how to improve it, send an email to Jim Ostrowski, Office of Environmental Assistance, at ostrowski@mi.gov.

Sign up for notification of workshops, newsletters, and updates to the "Michigan Guide to Environmental, Health, and Safety Regulations!"

TO ORDER: Hard copies of the 9th edition of the the guidebook, which debuted at the 2016 Michigan Environmental Compliance Conference, are now available for purchase from the Michigan eStore at <https://meca.state.mi.us/MichiganStore/Public/home.aspx>.

Electronic Files:

- [Introduction](#)
- [Table of Contents](#)
- [How to Use the Guidebook](#)
- [Self-Assessment Survey \(.pdf\)](#)

The following files will be available for download soon:

[Michigan Guide to Environmental, Health, and Safety Regulations - 9th Edition \(entire book\)](#)

Section One: Environmental Regulations

- Chapter 1: Air Quality Regulations
- Chapter 2: Waste Management
- Chapter 3: Wastewater
- Chapter 4: Material Storage and Transportation
- Chapter 5: SARA Title III - Emergency Planning and Community Right to Know Act
- Chapter 6: Environmental Emergencies
- Chapter 7: Sites of Environmental Contamination, Property Transfers, and Liability Issues
- Chapter 8: Activities At or Near the Land/Water Interface
- Chapter 9: Drinking Water

Different Areas of Training

JOB DESCRIPTION

Large Quantity Generator Training Requirements

The generator complies with the requirements for owners or operators of interim status facilities in 40 CFR 265 subparts C and D (preparedness prevention & contingency planning), §265.16 (personnel training and part 268 (land disposal restrictions)

Large Quantity Generator Training Requirements

LQG employee training documents:

- Must have written hazardous waste training program
- Must conduct annual training for employees
- Must keep written training records for 3 years
- Training must be conducted by someone qualified to give training
- Must have description of the *type of training given*

Small Quantity Generator Training Requirements

The generator shall ensure employees are thoroughly familiar with proper waste handling and emergency procedures relevant to their responsibilities during normal facility operations and emergencies

Conditionally Exempt Small Quantity Generator Training Requirements

CESQGs do not have any specific training requirements but are encouraged to train regularly to ensure they can safely manage waste during normal operations and during emergencies

Preparing/Offering Waste for Transport

Requires Training to meet:

- Part 111, Hazardous Waste Training
- 49 CFR US DOT Training

See Chapter 4 of guidebook also available on-line at www.michigan.gov/ehsguide

Environmental Emergencies



Prepare for reporting an environmental emergency by reviewing the Release Reporting Table at www.michigan.gov/chemrelease

When in doubt whether to report or when a release impacts waters of the state, notify:

- Your local emergency responders at 911
- DEQ Pollution Emergency Alert System (PEAS) at 800-292-4706 (within Michigan) or 517-373-7660 (outside Michigan)
- EPA National Response Center at 800-424-8802

Environmental Emergencies

HAZARDOUS WASTE EMERGENCY INFORMATION	
EMERGENCY NAME _____	Map of facility with emergency equipment, spill equipment, exit routes, and alarm locations.
COORDINATOR PHONE _____	
ALTERNATE NAME _____	
PHONE _____	
FIRE DEPT. PHONE _____	
HOSPITAL PHONE _____	
POLICE PHONE _____	
Fire alarm is located: _____	
Spill control equipment is located: _____	
Fire extinguishers are located: _____	

National Response Center: 1-800-424-8802	Provided by: The Environmental Assistance Division and the Waste Management Division of the Michigan Department of Environmental Quality
Michigan Pollution Emergency: 1-800-292-4706	Environmental Assistance Center 1-800-662-9278
Other hazardous waste requirements may apply.	 

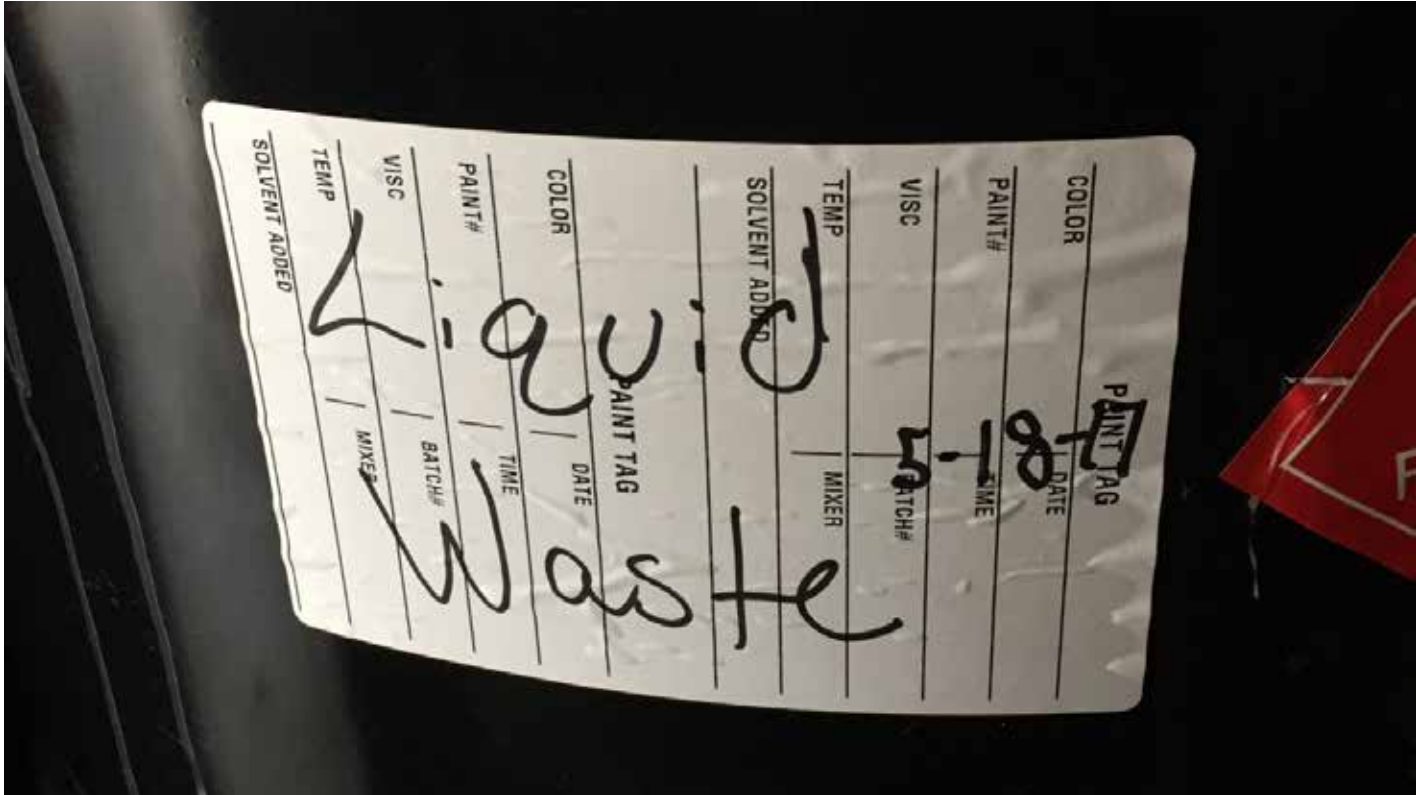
Generator Satellite Accumulation



Generator Accumulation Area



Labeling



Questions?