# Hazardous Waste Biennial Report

Solid & Hazardous Waste Branch

State of Hawaii Department of Health

# Outline

- What is the biennial report?
- Who must report?
- What must be reported?
- Set up: Gathering information and tools
- Preparing your report

# What is the biennial report?

# 2021 Hazardous waste report

The information collected will:

- Provide the EPA/States with an understanding of hazardous waste generation and management.
- Help the EPA/States monitor industry compliance with regulations and evaluate waste minimization efforts taken by industry.
- Be summarized by EPA and communicated to the public in the National Biennial RCRA Hazardous Waste Report.

National Analysis presents
a detailed look at waste-handling practices
in the EPA Regions, States, and largest facilities nationally,

# National Hazardous Waste Biennial Report

including:

(1) the quantity of waste generated, managed, shipped and received, and imported and exported between States

(2) the number of generators and managing facilities

# Who must report?

# Who must report

- Large Quantity Generators (LQGs) of hazardous waste (HW)
- Treatment, Storage, and Disposal facilities (TSDFs) that store, treat, or dispose of regulated hazardous waste (requires a permit)

# Who must report

A site is an LQG if, in **any** calendar month of 2021, it did **any** of the following:

- Generated 1,000 kg (2,200 pounds) or more of HW
- Generated over 1 kg (2.2 pounds) of acute* HW
- Generated over 100 kg (220 pounds) of spill cleanup material contaminated with acute* HW

*acute: any HW with an EPA HW code beginning with the letter "P" or the following "F" codes: F020, F021, F022, F023, F026, and F027

# What must be reported?

important!!

# Include

- Waste generated in 2020 and shipped in 2021
- Waste generated and shipped in 2021
- Waste generated in 2021 and shipped in 2022
- Waste received from another site (VSQG consolidation, TDSF receipts, imports)

*Report for the entire year, even if you were only an LQG for one month during the year

# Do NOT include

- Universal waste
- Episodic event waste generated and managed in compliance with 40 CFR part 262 subpart L, as incorporated and amended in chapter 11-262.1, HAR
- Pharmaceuticals and electronic nicotine delivery system (ENDS) waste generated on or after June 7, 2021 (effective date of pharmaceuticals rule in Hawaii)

# Set up

GATHERING INFORMATION AND TOOLS

# Set up steps

1. Register for a RCRAInfo user account
   - If you already have a RCRAInfo or CDX account, skip this step and use your existing account.
2. Get permissions for your site
3. Complete the electronic signature agreement (ESA)

# HOT TIP

- Do not use Internet Explorer.
- This browser is unsupported and will produce errors.

# Permissions

- Every site needs a certifier. A preparer is optional.
- Consultants can prepare the BR, but cannot certify.

# Electronic signature agreement

- Your information will not be stored; it is only used once to verify your identity through LexisNexis.
- If RCRAInfo cannot verify your identity OR you choose to opt out of electronic identity verification, you can complete a paper ESA.
- If you mail in a paper ESA, you can begin working on your Biennial Report, but you will not be able to certify and submit until our office receives your ESA with original ink signature.

# Set up steps

4. Print code lists

5. Gather manifests and other records of waste generation/ receipt

# Preparing your report

GM FORM ▪ SI FORM ▪ CERTIFY & SUBMIT

# GM Form

Waste generation and management

# GM form preparation

1. (optional) Print GM forms – One GM form per waste stream

2. Identify, describe, and code waste streams

3. Add up quantities for the same waste stream across manifests

Important!!

# Coding GM Forms

To be combined on one GM form, waste must have the same description, the same source code, and the same form code.

The same waste could:

- Be shipped on multiple manifests throughout the year
- Be sent to more than one destination facility
- Have more than one management code

## 1.A - WASTE DESCRIPTION

Provide a short narrative description of the waste, such as:

- General type;
- Source;
- Type of hazard; and
- Generic chemical name or primary hazardous constituents.

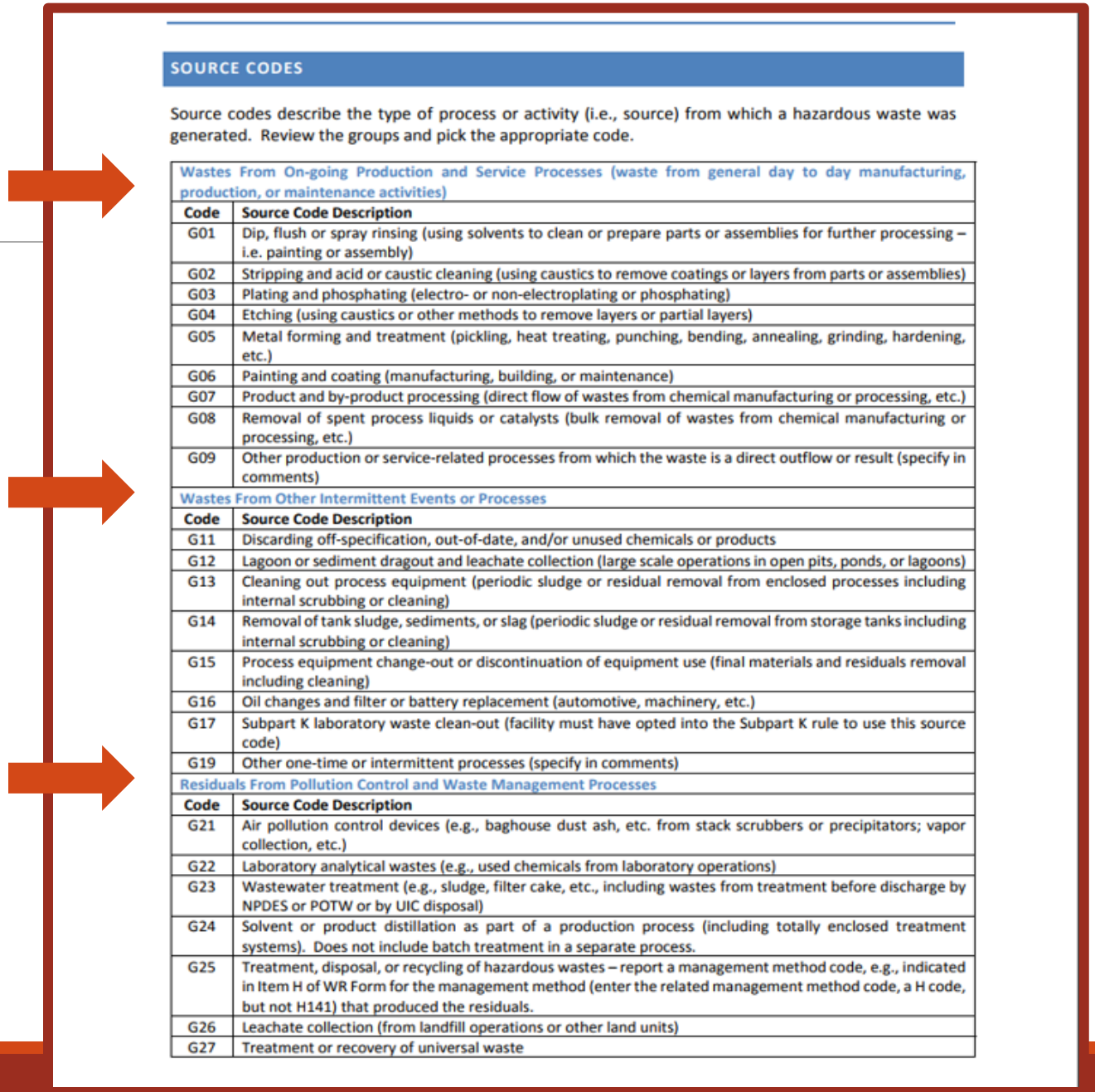
## EXAMPLE

"Ignitable spent solvent from degreasing operation in tool production; mixture of mineral spirits and kerosene."

In the example, note that the general type (spent solvent), source (degreasing operation in tool production), type of hazard (ignitability), and generic chemical names (mineral spirits and kerosene) have all been cited.

# Source codes

1. Choose the most descriptive subcategory
2. Choose the most appropriate code



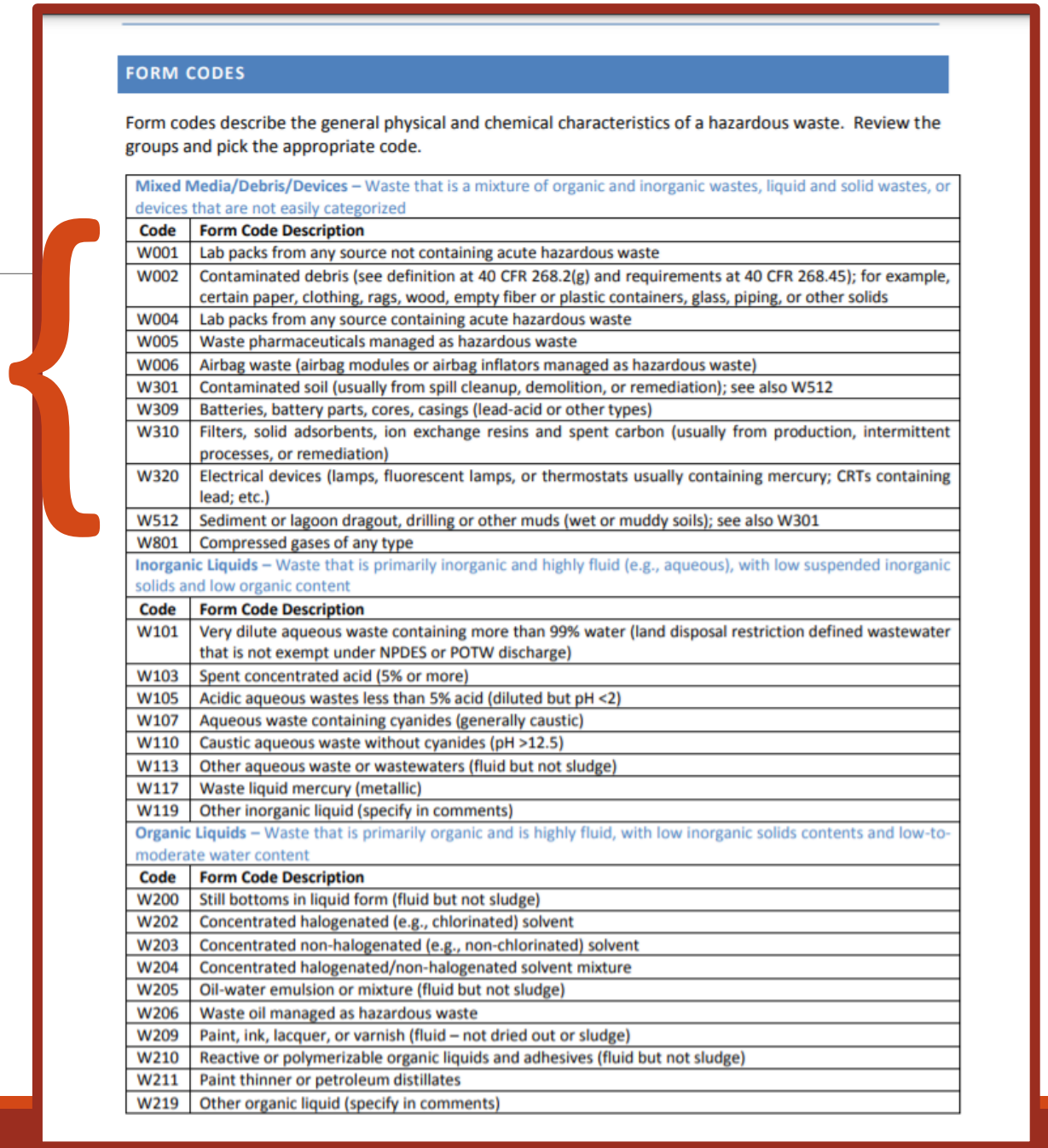
## SOURCE CODES

Source codes describe the type of process or activity (i.e., source) from which a hazardous waste was generated. Review the groups and pick the appropriate code.

| Wastes From On-going Production and Service Processes (waste from general day to day manufacturing, production, or maintenance activities) | |
|---|---|
| **Code** | **Source Code Description** |
| G01 | Dip, flush or spray rinsing (using solvents to clean or prepare parts or assemblies for further processing – i.e. painting or assembly) |
| G02 | Stripping and acid or caustic cleaning (using caustics to remove coatings or layers from parts or assemblies) |
| G03 | Plating and phosphating (electro- or non-electroplating or phosphating) |
| G04 | Etching (using caustics or other methods to remove layers or partial layers) |
| G05 | Metal forming and treatment (pickling, heat treating, punching, bending, annealing, grinding, hardening, etc.) |
| G06 | Painting and coating (manufacturing, building, or maintenance) |
| G07 | Product and by-product processing (direct flow of wastes from chemical manufacturing or processing, etc.) |
| G08 | Removal of spent process liquids or catalysts (bulk removal of wastes from chemical manufacturing or processing, etc.) |
| G09 | Other production or service-related processes from which the waste is a direct outflow or result (specify in comments) |
| Wastes From Other Intermittent Events or Processes | |
| **Code** | **Source Code Description** |
| G11 | Discarding off-specification, out-of-date, and/or unused chemicals or products |
| G12 | Lagoon or sediment dragout and leachate collection (large scale operations in open pits, ponds, or lagoons) |
| G13 | Cleaning out process equipment (periodic sludge or residual removal from enclosed processes including internal scrubbing or cleaning) |
| G14 | Removal of tank sludge, sediments, or slag (periodic sludge or residual removal from storage tanks including internal scrubbing or cleaning) |
| G15 | Process equipment change-out or discontinuation of equipment use (final materials and residuals removal including cleaning) |
| G16 | Oil changes and filter or battery replacement (automotive, machinery, etc.) |
| G17 | Subpart K laboratory waste clean-out (facility must have opted into the Subpart K rule to use this source code) |
| G19 | Other one-time or intermittent processes (specify in comments) |
| Residuals From Pollution Control and Waste Management Processes | |
| **Code** | **Source Code Description** |
| G21 | Air pollution control devices (e.g., baghouse dust ash, etc. from stack scrubbers or precipitators; vapor collection, etc.) |
| G22 | Laboratory analytical wastes (e.g., used chemicals from laboratory operations) |
| G23 | Wastewater treatment (e.g., sludge, filter cake, etc., including wastes from treatment before discharge by NPDES or POTW or by UIC disposal) |
| G24 | Solvent or product distillation as part of a production process (including totally enclosed treatment systems). Does not include batch treatment in a separate process. |
| G25 | Treatment, disposal, or recycling of hazardous wastes – report a management method code, e.g., indicated in Item H of WR Form for the management method (enter the related management method code, a H code, but not H141) that produced the residuals. |
| G26 | Leachate collection (from landfill operations or other land units) |
| G27 | Treatment or recovery of universal waste |

# Form codes

1. Do any of the special form codes apply? (listed at top as “Mixed Media/ Debris/ Devices”)



FORM CODES

Form codes describe the general physical and chemical characteristics of a hazardous waste. Review the groups and pick the appropriate code.

**Mixed Media/Debris/Devices** – Waste that is a mixture of organic and inorganic wastes, liquid and solid wastes, or devices that are not easily categorized

| Code | Form Code Description |
|---|---|
| W001 | Lab packs from any source not containing acute hazardous waste |
| W002 | Contaminated debris (see definition at 40 CFR 268.2(g) and requirements at 40 CFR 268.45); for example, certain paper, clothing, rags, wood, empty fiber or plastic containers, glass, piping, or other solids |
| W004 | Lab packs from any source containing acute hazardous waste |
| W005 | Waste pharmaceuticals managed as hazardous waste |
| W006 | Airbag waste (airbag modules or airbag inflators managed as hazardous waste) |
| W301 | Contaminated soil (usually from spill cleanup, demolition, or remediation); see also W512 |
| W309 | Batteries, battery parts, cores, casings (lead-acid or other types) |
| W310 | Filters, solid adsorbents, ion exchange resins and spent carbon (usually from production, intermittent processes, or remediation) |
| W320 | Electrical devices (lamps, fluorescent lamps, or thermostats usually containing mercury; CRTs containing lead; etc.) |
| W512 | Sediment or lagoon dragout, drilling or other muds (wet or muddy soils); see also W301 |
| W801 | Compressed gases of any type |

**Inorganic Liquids** – Waste that is primarily inorganic and highly fluid (e.g., aqueous), with low suspended inorganic solids and low organic content

| Code | Form Code Description |
|---|---|
| W101 | Very dilute aqueous waste containing more than 99% water (land disposal restriction defined wastewater that is not exempt under NPDES or POTW discharge) |
| W103 | Spent concentrated acid (5% or more) |
| W105 | Acidic aqueous wastes less than 5% acid (diluted but pH <2) |
| W107 | Aqueous waste containing cyanides (generally caustic) |
| W110 | Caustic aqueous waste without cyanides (pH >12.5) |
| W113 | Other aqueous waste or wastewaters (fluid but not sludge) |
| W117 | Waste liquid mercury (metallic) |
| W119 | Other inorganic liquid (specify in comments) |

**Organic Liquids** – Waste that is primarily organic and is highly fluid, with low inorganic solids contents and low-to-moderate water content

| Code | Form Code Description |
|---|---|
| W200 | Still bottoms in liquid form (fluid but not sludge) |
| W202 | Concentrated halogenated (e.g., chlorinated) solvent |
| W203 | Concentrated non-halogenated (e.g., non-chlorinated) solvent |
| W204 | Concentrated halogenated/non-halogenated solvent mixture |
| W205 | Oil-water emulsion or mixture (fluid but not sludge) |
| W206 | Waste oil managed as hazardous waste |
| W209 | Paint, ink, lacquer, or varnish (fluid – not dried out or sludge) |
| W210 | Reactive or polymerizable organic liquids and adhesives (fluid but not sludge) |
| W211 | Paint thinner or petroleum distillates |
| W219 | Other organic liquid (specify in comments) |

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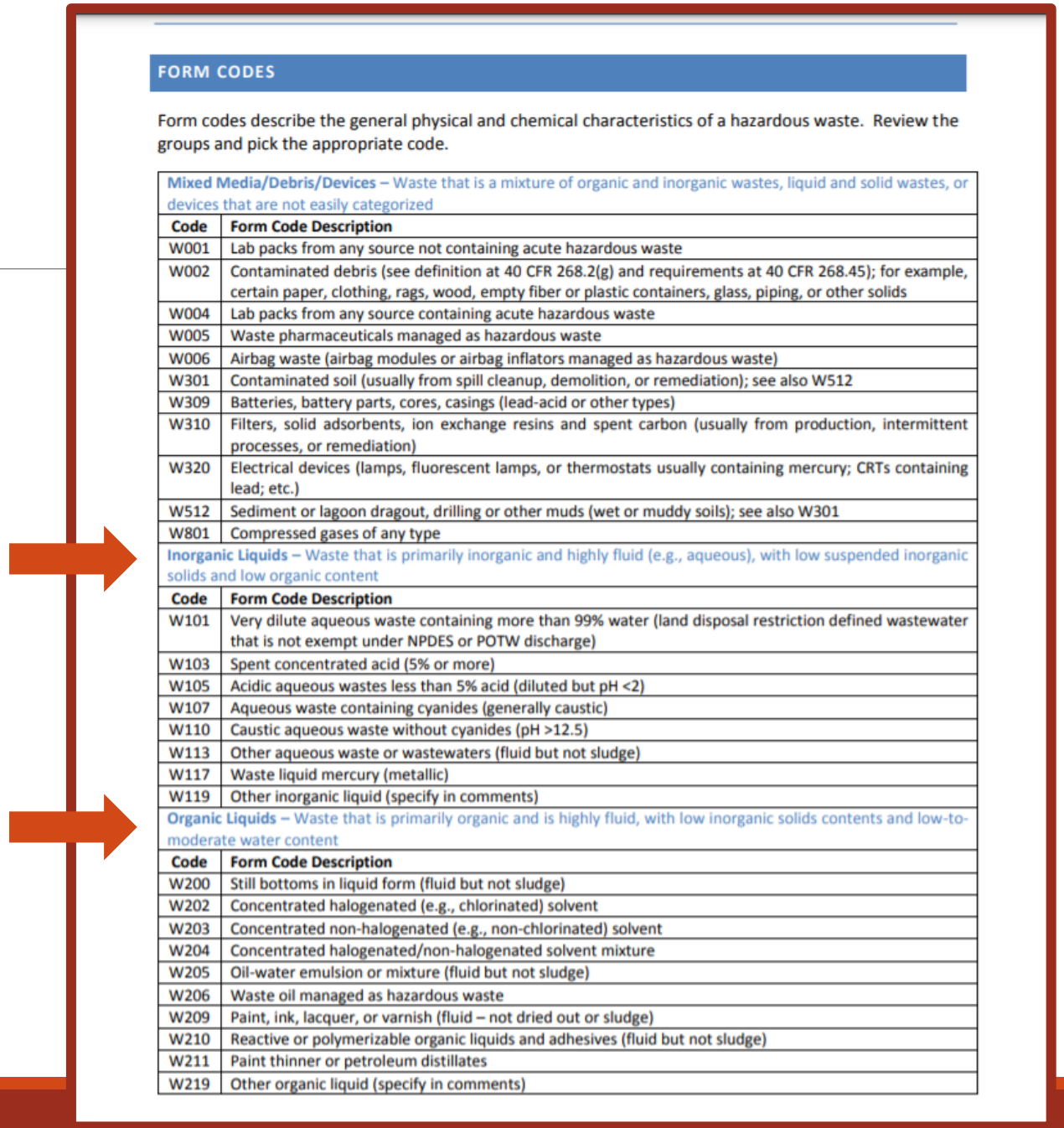

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# HOT TIP

Check out the source codes and form codes used on last BR cycle’s report if your site has one.

# SI Form

Site identification

# Site ID Form, a.k.a. notification form

- Will be pre-filled with the information currently in the database for your site
- Review and make any necessary changes
- Provide CURRENT generator status as of the date of report submission

# Reminders & Resources

# Important reminders

- Don’t use Internet Explorer
- Include waste managed on-site during any part of 2021
- Do *not* include waste not counted toward generator status
- 1 GM form = 1 waste stream = 1 description, 1 source code, 1 form code
- On SI form, provide *current* generator status as of the date of report submission

# More detailed guidance

How to fill out the forms

https://health.hawaii.gov/shwb/br/

How to use the RCRAInfo Industry Application (LearningZen) https://rcrainfoindustry.learningzen.com/onlinetraining/auth/login

- Register, click on “course catalog,” then select “all courses.”

# National BR data and visualizations

https://rcrapublic.epa.gov/rcrainfoweb/action/main-menu/view

https://www.epa.gov/hwgenerators/biennial-hazardous-waste-report

https://rcrapublic.epa.gov/rcra-public-web/action/explore

https://rcrapublic.epa.gov/rcrainfoweb/action/modules/br/summary/view

# Questions?

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