

Isabel Newman and Umair Hassan Industrial and Hazardous Waste Permits Section May 16, 2023

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## Overview

- Introduction to Recycling
- Types of Recyclable Wastes
- Exclusions from the Definition of Solid Waste
- Notification Process
- Frequently Asked Questions (FAQs)



## What is Recycling?

- Recycling is the process of converting waste into a reusable material
- A material can be recycled if it can be:
  - Used
  - Reused
  - Reclaimed



### **Recycling Regulations**

- 40 Code of Federal Regulations (CFR) Rule 261.2 261.6
- 30 Texas Administrative Code (TAC) Chapter 335, Subchapter A
- <u>Regulatory Guidance RG 240</u>: Can I Recycle Some of My Industrial or Hazardous Wastes?



#### **Legitimate Recycling**

- Must be a known market or disposition for material
- Must meet requirements and be beneficial for its intended use
- Must meet terms of any exclusion or exemption
- Must have the necessary equipment for any on-site recycling activities



# Types of Recyclable Waste





#### **Types of Waste**

- Solid Waste
- Industrial Solid Waste
  - Hazardous Waste
  - Non-Hazardous waste



#### **Types of Recyclable Wastes**

- Nonhazardous Industrial Waste (NHIW) Nonhazardous Recyclable Materials
- Hazardous Waste (HW) **Recyclable Materials**
- Hazardous Secondary Materials (HSM) Trade Fair Presentation – Today 2:30 PM



# **Recycling Requirements**





### **Recycling Requirements**

#### NHIW

- Must comply with the general prohibitions
- Must comply with the notification requirements
- May be subjected to more strict requirements

#### HW

- Must comply with the general prohibitions
- Must comply with the notification requirements
- Must comply with recordkeeping, reporting, and shipping requirements

## HW Recycling Requirements (Cont.)

- Generators Requirements 30 TAC Chapter 335, Subchapter C
- Transporters Requirements 30 TAC Chapter 335, Subchapter D
- Recycling Facilities
  - Storage prior to recycling Permit is required
  - No storage prior to recycling Shipping, Recordkeeping, Biennial reporting requirements



## **Exclusions from Solid Waste**





#### **Exclusions from Solid Waste**

- Used or reused as ingredients in an industrial process to make a product
- Used or reused as effective substitutes for commercial products
- Returned to the original process from which they are generated



- Materials used in a manner constituting disposal
- Materials used to produce products that are applied to the land
- Materials burned for energy recovery, used to produce a fuel, or contained in fuels



- Certain reclaimed material
- Materials accumulated speculatively
- Inherently Waste-Like Materials





Type of Material	Use Constituting Disposal	Energy Recovery	Reclamation	Speculative Accumulation
Spent materials (listed hazardous)	*	*	*	*
Spent materials (nonhazardous)	*	*	*	*
Sludges (listed hazardous)	*	*	*	*
Sludges (not listed but characteristically hazardous)	*	*		*
Sludges (nonhazardous)	*	*		*
By-Products (listed hazardous)	*	*	*	*

Type of Material	Use Constituting Disposal	Energy Recovery	Reclamation	Speculative Accumulation
By Products (non listed but characteristically hazardous)	*	*		*
By-products (nonhazardous)	*	*		*
Commercial chemical products	*	*		
Scrap metal that is not excluded	*	*	*	*
Scrap metal other than excluded scrap metal	*	*	*	<b>*</b> 17

#### How to Avoid Speculative Accumulation

- Material must be potentially recyclable
- Must have feasible means of recycling
- Must recycle or transfer 75% of annual production of the recycling material
- Must have a label with the date material began to be accumulated



#### Land Application of NHIW

• Must meet the criteria of 30 TAC 335.1(160)(H)





## **Notification Process**





#### **Notification Requirements**

- Must notify the TCEQ 90 days before recycling begins
- Applies for both hazardous and nonhazardous waste
- Applies for both on and off-site waste



#### **Notification Requirements**

- Type of Waste
- Method of Storage
- Nature of the recycling activity





#### **Notification Requirements**

How to Notify us:

- Generator Form 0525 and Receiver Form 0524
- TCEQ STEERS
- HSM EPA Form 8700-12



#### **Recycling Notifications Forms**



GENERATOR NOTIFICATION FORM FOR RECYCLING HAZARDOUS OR INDUSTRIAL WASTE

Use this form to comply with requirements found in <u>30 TAC 335.6</u> to notify the TCEQ of hazardous or industrial solid waste stream recycling activities by your facility. This form is not appropriate for notification of wastes which you receive and recycle. Receivers should use <u>Form TCEQ-0524</u>.

Solid Waste Registration #: COMPANY NAME:

 Enter the recycled material's Texas Waste Code (TWC). If the material is not shown in your Notice of Registration (NOR), please add the waste code to your NOR. Large Quantity Generators must use the State of Texas Electronic Reporting System (STEERS) to add TWCs; Small Quantity Generators may use STEERS or submit Form TCEQ 00002.

#### TEXAS WASTE CODE:

 Enter the Unit Sequence Number to reflect the on-site storage of the material to be recycled. If the storage unit is not on your facility's NOR, update the NOR by using either STEERS or by submitting Form TCEQ-00002. If no storage occurs, skip to 3.

#### UNIT SEQUENCE NUMBER

3. Describe the recycling process:

- A. Will the material be recycled: On-site ? Off-site?
- B. List on-site units(s) where waste is recycled:
- C. Describe the recycling method:

Solvent	Recovery	Feedstock/Ingredient	* Asphalt Batching
Metals R	ecovery	Compost*	Alternate Daily Cover
Oil Reco	very*	Smelting	Soil Amendment*
Energy F	Recovery*	Fuel Blending*	Fertilizer*
Catalyst	Recovery	Other*	Container Reconditioning*
Acid Rec	eneration	Road Base*	

D. \*Please provide detailed information to show that the recycling method complies with RCRA or industrial solid waste requirements in 30 TAC Chapter 335 (such as providing the BTU value of recycled material, if the recycling method is fuel blending or energy recovery). Required for oil recovery, energy recovery, fuel blending, container reconditioning, feedstock/ingredient, compost, road base, soil amendment, fertilizer and other.



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#### RECEIVER NOTIFICATION FORM FOR RECYCLING HAZARDOUS OR INDUSTRIAL WASTE

Use this form to comply with requirements found in <u>30 TAC 335.6</u> to notify the TCEQ of hazardous or industrial solid waste recycling activities by your facility. This form is not appropriate for notification of wastes which you generate. Generators should use <u>Form TCEO-0525</u>.

Solid Waste Registration #:	
TEXAS WASTE CODE #:	COMPANY NAME:
CONTACT PERSON:	TELEPHONE NUMBER:
Skip to 1 if a SWR, or Permit # ha	as been assigned to your facility.
PHYSICAL ADDRESS:	
	TX
the second s	TX
1. Describe the type of material to	o be recycled:
	o be recycled: aterial prior to recycling. If no storage occurs, write "N/A"
	aterial prior to recycling. If no storage occurs, write "N/A"
2. Describe any storage of the ma 3. A. Describe how the material w	aterial prior to recycling. If no storage occurs, write "N/A"
2. Describe any storage of the ma 3. A. Describe how the material w	aterial prior to recycling. If no storage occurs, write "N/A" vill be recycled:

Storage of material prior to recycling may require a permit as described in Title 30 Texas Administrative Code (TAC) Section (§)335.2. For more information on permitting requirements you may contact the Industrial and Hazardous Waste Permits Section at (512) 239-2335.

## **Frequently Asked Questions**







Can industrial solid waste be mixed with household waste for recycling?

Answer: No, industrial solid waste should not be mixed with household waste for recycling.





Do I need a permit to recycle industrial hazardous waste in Texas?

Answer: A permit is required for facilities that store hazardous waste received from off-site for recycling, unless the materials are put into a permit exempt recycling process on the same calendar day the materials are received. Units used for recycling do not require a permit.





#### I am using a material as an ingredient in an industrial process to make a product. Is this material excluded from the solid waste?

## Answer: Yes, if the material is not being reclaimed before being used.



#### References

- 40 Code of Federal Regulations (CFR) Part 261
- <u>30 Texas Administrative Code (TAC) Chapter 335</u>
- TCEQ Guidance Document RG-240



#### Sign Up for GovDelivery

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# Questions?



#### **Contact Us**

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