

# Resource Conservation Council Meeting

Wednesday, February 6, 2019

Cassidy Campbell

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1. Welcome and Introductions

2. Notification of Conflicts of Interest

# Action Items

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**3. Meeting Summary.** The October 18, 2018 meeting summary will be presented for approval.

**4. Conformance Review Recommendation:  
Weatherford Transfer Station**



Dallas-Fort Worth  
CLEAN CITIES



North Central Texas  
Council of Governments

# Volkswagen Environmental Mitigation Trust Overview

Nancy Luong

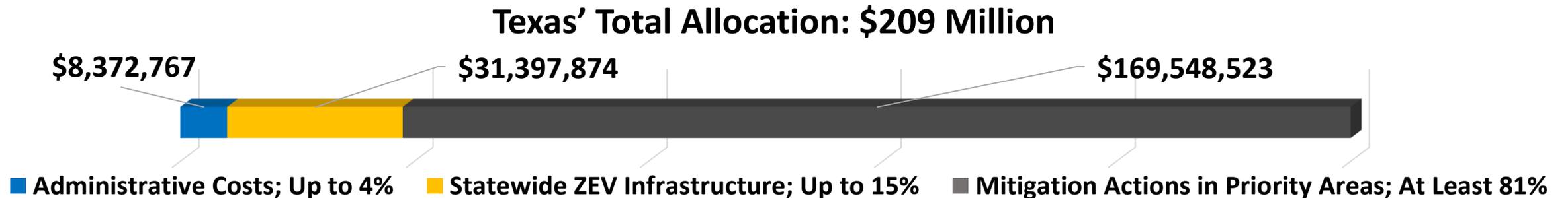
Air Quality Planner

# Volkswagen Environmental Mitigation Trust - Texas

[www.TexasVWFund.org](http://www.TexasVWFund.org)

Texas Commission on Environmental Quality (TCEQ) Goals

1. Reduce Nitrogen Oxides (NO<sub>x</sub>) Emissions
2. Reduce the Potential for Exposure of the Public to Pollutants
3. Prepare for Increased and Sustained Use of Zero Emission Vehicles (ZEV)
4. Complement Other Incentive Funding Programs



# Funding Distribution and Methodology

33%

15%

33%

81%<sup>1</sup>

<b>Area</b>	<b><u>Component 1:</u></b> <b>Pro-Rata Allocation</b> <b>(% of VW vehicles)</b>	<b><u>Component 2:</u></b> <b>Base Funding for</b> <b>Nonattainment Areas</b>	<b><u>Component 3:</u></b> <b>Strategic</b> <b>Allocation</b>	<b>Total</b>
Dallas-Fort Worth Area <sup>2</sup>	\$22,919,202	\$10,465,958	-	\$33,385,160
Houston-Galveston-Brazoria Area	\$21,360,321	\$10,465,958	-	\$31,826,279
San Antonio Area	\$8,619,558	\$10,465,958	\$42,500,000	\$61,585,516
Austin Area	\$11,547,602	-	\$4,750,000	\$16,297,602
El Paso County	\$2,064,031	-	\$14,750,000	\$16,814,031
Bell County	\$1,757,741	-	\$325,324	\$2,083,065
Beaumont-Port Arthur Area	\$806,869	-	\$6,750,000	\$7,556,869
	\$69,075,324	\$31,397,874	\$69,075,324	\$169,548,522

<sup>1</sup>81% Represents the Amount for Mitigation Actions in Priority Areas

<sup>2</sup>Counties include Collin, Dallas, Denton, Ellis, Hood, Johnson, Kaufman, Parker, Rockwall, Tarrant, and Wise

Source: Final Beneficiary Mitigation Plan for Texas, page 12, Table 2: [https://www.tceq.texas.gov/assets/public/implementation/air/terp/VW/RG\\_537\\_VW\\_Mitigation\\_Plan.pdf](https://www.tceq.texas.gov/assets/public/implementation/air/terp/VW/RG_537_VW_Mitigation_Plan.pdf)

# Eligible On-Road Projects and Incentive Levels

## \$33.4 Million to DFW Area

**Class 4-7 Local Freight Trucks**  
**Class 7-8 Refuse Haulers**  
**School Buses**

**Class 8 Local Freight Trucks & Port Drayage Trucks**  
**Transit/Shuttle Buses**

Project Type	Ownership	New Fuel Type	Funding Levels Allowed by Trust <sup>1</sup>	Draft Funding Level Proposed by TCEQ <sup>1</sup>	Final Funding Level for Texas <sup>1</sup>
Every Project Type	Govt Owned	Any	100%	60%	80%
Replace	Non-Govt Owned	Electric	75%	60%	50%
		Other	25% <sup>2</sup>	25% <sup>2</sup>	25% <sup>2</sup>
Repower	Non-Govt Owned	Electric	75%	60%	50%
		Other	40%	40%	40%

<sup>1</sup>Maximum Reimbursement Allowed Per Activity; Cost of Necessary Infrastructure for Battery Electric or Fuel Cell Vehicles also Eligible at "Electric" Funding Level

<sup>2</sup>Exception is Drayage Trucks, which Qualify for 50%

Non-Road Projects Not Shown: Airport Ground Support Equipment, Forklifts or Port Cargo-Handling Equipment, and Ocean-Going Vessel Shorepower

# TERP Texas Natural Gas Vehicle Grant Program

Application Deadline: May 31, 2019, on a First-Come, First-Served Basis

- Old Diesel or Gasoline Vehicle Gross Vehicle Weight Rating (GVWR) Greater Than 8,500; Replace or Repower with CNG or LNG

<b>GVWR</b>	<b>Example 1: Replacing a Refuse Hauler Model Year 2004 with an Eligible Vehicle</b>	<b>Example 2: Replacing a Refuse Hauler Model Year 1988 with an Eligible Vehicle</b>
26,001 – 33,000	Up to \$24,382	Up to \$107,192
33,001 – 60,000	Up to \$55,847	Up to \$296,801
Greater Than 60,000	Up to \$61,310	Up to \$309,066

# TERP Rebate Grants Program

Opening Soon: First-Come, First-Served Basis

- Old Diesel Vehicle GVWR Greater Than 8,500

GVWR	Example 1: Replacing a Refuse Hauler Model Year 2004 with 2007 or Newer Vehicle		Example 2: Replacing a Refuse Hauler Model Year 1988 with 2007 or Newer Vehicle	
	5-Year Activity Life	7-Year Activity Life	5-Year Activity Life	7-Year Activity Life
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26,001 – 33,000	Up to \$7,151	Up to \$10,012	Up to \$34,232	Up to \$47,924
33,001 – 60,000	Up to \$16,380	Up to \$22,932	Up to \$84,622	Up to \$118,470
Greater Than 60,000	Up to \$17,982	Up to \$25,175	Up to \$93,525	Up to \$130,935

# How to Reach Out to Solid Waste Industry ?



**CREATE HANDOUT FOR  
DISTRIBUTION?**



**TRAVEL TO LANDFILL  
SITES TO SPEAK?**

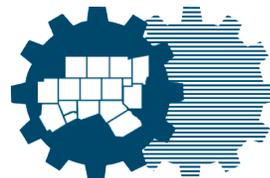
# For More Information

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**Dallas-Fort Worth**  
**CLEAN CITIES**

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**North Central Texas**  
**Council of Governments**

Go To [www.dfwcleancities.org](http://www.dfwcleancities.org); Select “Resources” then “VW Settlement” or “Funding”

# 6. 86<sup>th</sup> Texas Legislative Session Update

Solid Waste Bills	Author	Topic
<u>HB 1</u>	Zerwas	General Appropriations Bill.
<u>HB 191</u>	Stephenson	Relating to the disposal of pesticides.
<u>HB 219</u>	Reynolds	Relating to requirements regarding a municipality's comprehensive plan for long-range development, including adoption of an environmental report.
<u>HB 245</u>	Farrar	Relating to a requirement to make certain environmental and water use permit applications available online.
<u>HB 286</u>	Thompson, Ed	Relating to promotion of the use of recyclable materials as feedstock for manufacturing.

# 6. 86<sup>th</sup> Texas Legislative Session Update

Solid Waste Bills	Author	Topic
<u>HB 514</u>	Hinojosa	Relating to clarifying the law regarding local government prohibitions or restrictions on the sale or use of a container or package.
<u>HB 523</u>	Allen	Relating to permit application requirements for solid waste facilities.
<u>HB 654</u>	Dutton	Relating to the definition of "affected person" for purposes of a contested case hearing held by or for the Texas Commission on Environmental Quality regarding certain environmental permit applications.
<u>HB 825</u>	Dutton	Relating to the notice of intent to obtain an environmental permit sent to certain state legislators.

# 6. 86<sup>th</sup> Texas Legislative Session Update

Solid Waste Bills	Author	Topic
<u>HB 856</u>	Hinojosa	Relating to local government prohibitions or restrictions on the sale or use of a container or package.
<u>HB 928</u>	Anchia*	Relating to establishing the Texas Climate Change Mitigation and Adaptation Commission to study and address the impacts of climate change in this state.
<u>SB 180</u>	Miles	Relating to applications for permits issued by the Texas Commission on Environmental Quality for certain new or expanded facilities in certain low-income and minority communities.
<u>SB 551</u>	Kolkhorst, Zaffirini	Relating to inaccurate or incomplete permit applications for solid waste facilities.

*\*Legislator from the North Central Texas region*

*Updated February 1, 2019*

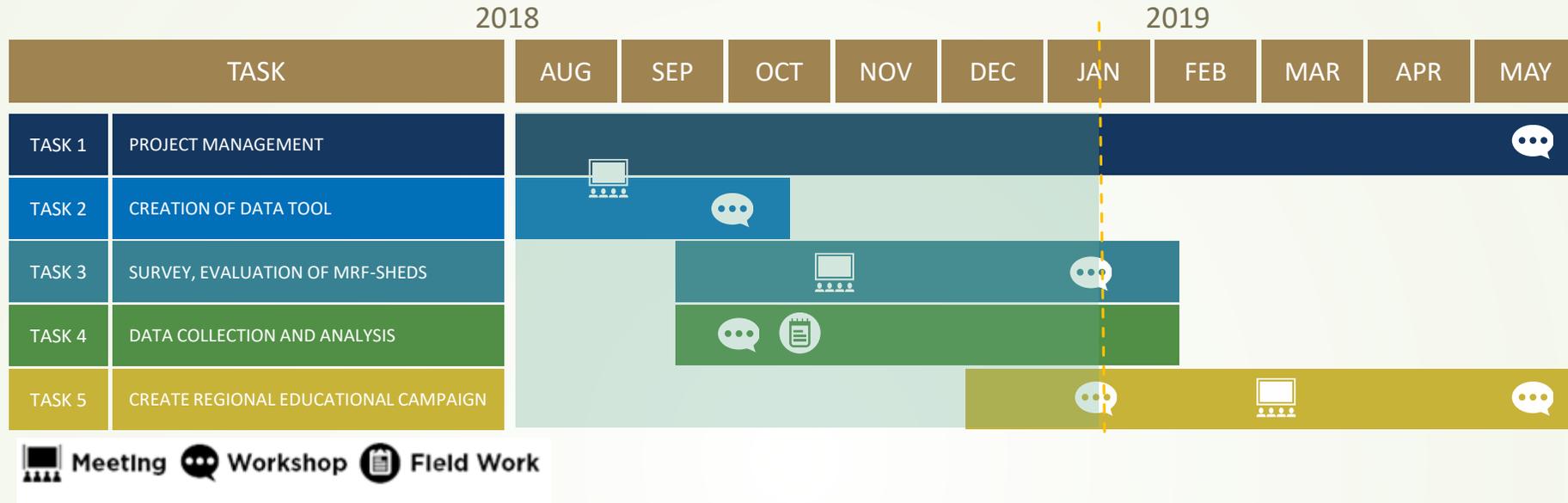
# Discussion Topics

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## 7. Regional Recycling Survey and Educational Campaign

- MRF Acceptable Materials Workshop and Pretesting Education Campaign Workshop held on Wednesday, January 23, 2019
- **Next workshop: May 20, 2019**

# Project Status Update



## COMPLETED TASKS

- Kick-off Meeting; Workshops 1 & 2
- Launch Re-TRAC Survey
- Waste Sorting Event
- MRF Interviews
- Data Analysis

## ONGOING TASKS

- Review Completed Re-TRAC Surveys
- MRF-shed Mapping
- Pre-testing Focus Group
- Customize Campaign Assets
- Deployment of Regional Messaging Review
- Final Workshop

# Waste Characterization Study Overview

- Coordinated with 10 participating cities to
  - Collect samples and track pickups
  - Transport samples
  - Deliver samples
- Participating cities selected based on population, annual tonnage, service type, and willingness to participate
- Participating cities represent 45 percent of total single-family households in North Central Texas region

# Waste Characterization Study Methodology

- ▶ Cities represent variety of different service offerings and collection frequencies to **generate a valid data set**
  - ▶ Curbside cart collection
  - ▶ Curbside bag collection
  - ▶ Private subscription
- ▶ Sort team physically segregated and weighed 50 samples; 200 pounds each
- ▶ Refuse samples collected included diverse range of households, programs, and set-out types
- ▶ Developed estimates of **total tonnage of each material category** generated annually in North Central Texas

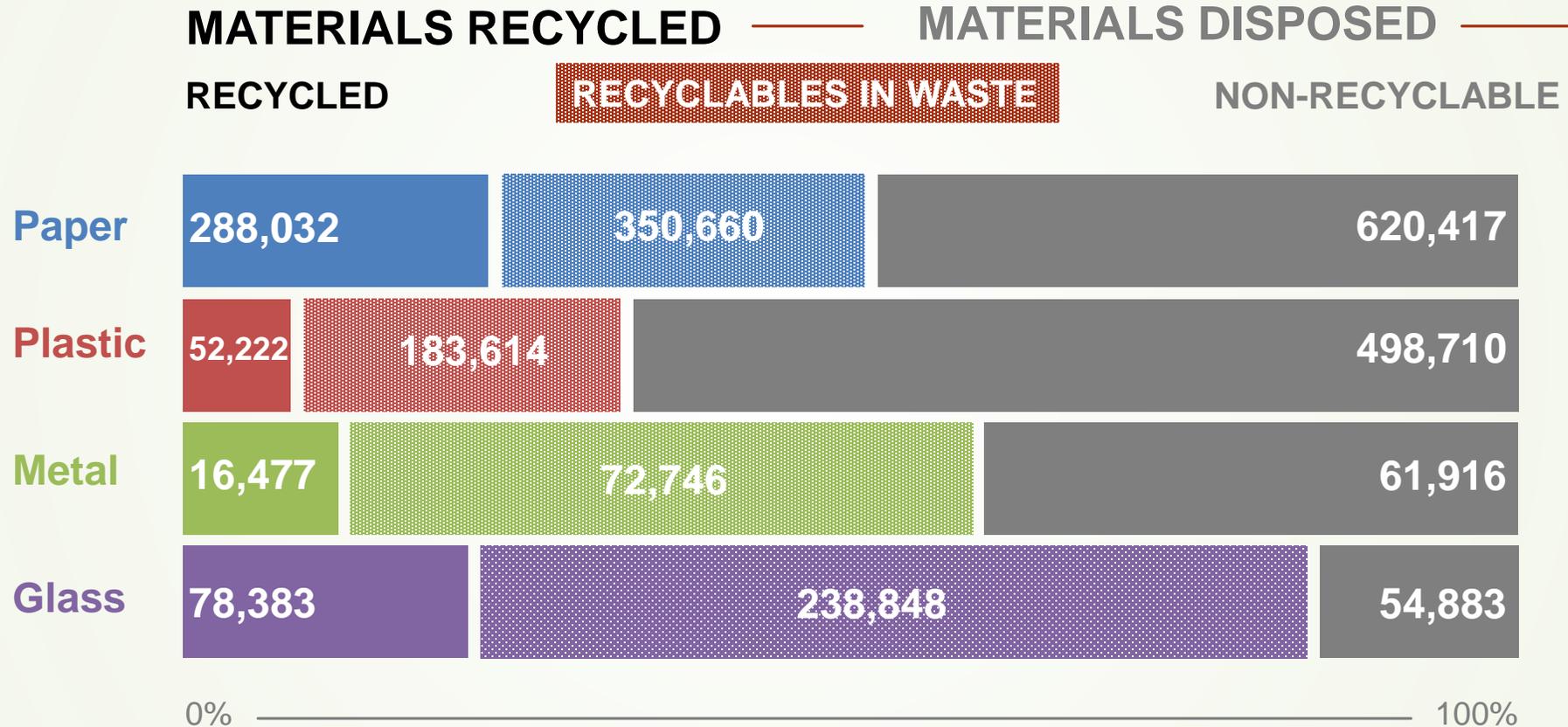
# Participating Cities Program Information

Cities	Criteria						
	Single Family Households	Recycling Collection frequency	Refuse Collection Frequency	Refuse Program Type	Set Out Type	Refuse Service Provider	Existing Data
Dallas	265,524	1x/wk	1x/wk	Automatic Enrollment	Carts	City	WC and Audit
Fort Worth	214,440	1x/wk	1x/wk	Automatic Enrollment and PAYT	Carts	Waste Management	WC and Audit
Arlington	91,379	1x/wk	2x/wk	Automatic Enrollment	Carts	Republic	Audit
Garland	61,968	Every Other Week	1x/wk	Auto Enrollment	Carts	City of Garland	Audit
Grand Prairie	46,084	1x/wk	2x/wk	Auto Enrollment	Bags	Grand Prairie Disposal	None
Irving	41,403	1x/wk	2x/wk	Auto Enrollment	Bags	City	None
Frisco	46,639	1x/wk	1x/wk	Auto Enrollment	Carts	Waste Connections	None
Mesquite	37,352	1x/wk	2x/wk	Auto Enrollment	Carts	City	Audit
Allen	26,623	Every Other Week	1x/wk	Auto Enrollment	Carts	Community Waste Disposal	None
Weatherford	8,363	1x/wk	2x/wk	Subscription	Carts	City	None

# Results from Sorting Event

- ▶ Sorted 50 samples, or approximately **10,800 lbs. (5.4 tons)** of refuse, generated from single family homes
  - ▶ Five days of sorting at the McCommas Bluff Landfill
  - ▶ About one ton of recyclables were pulled from waste and processed at the FCC MRF
- ▶ Visual observations from the sort include
  - ▶ The largest portion of the waste stream is **organic material**
  - ▶ There are is a clear opportunity to divert traditional **paper, plastic and metal recyclables** generated by single family residences

# Where Are the Recyclables?



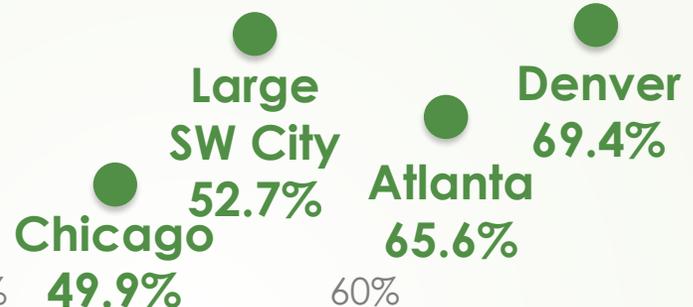
# Opportunity

CAPTURE RATES MORE ACCURATELY INFORM ACTION THAN RECYCLING RATE.

OF WHAT IS AVAILABLE ..... WHAT IS CAPTURED

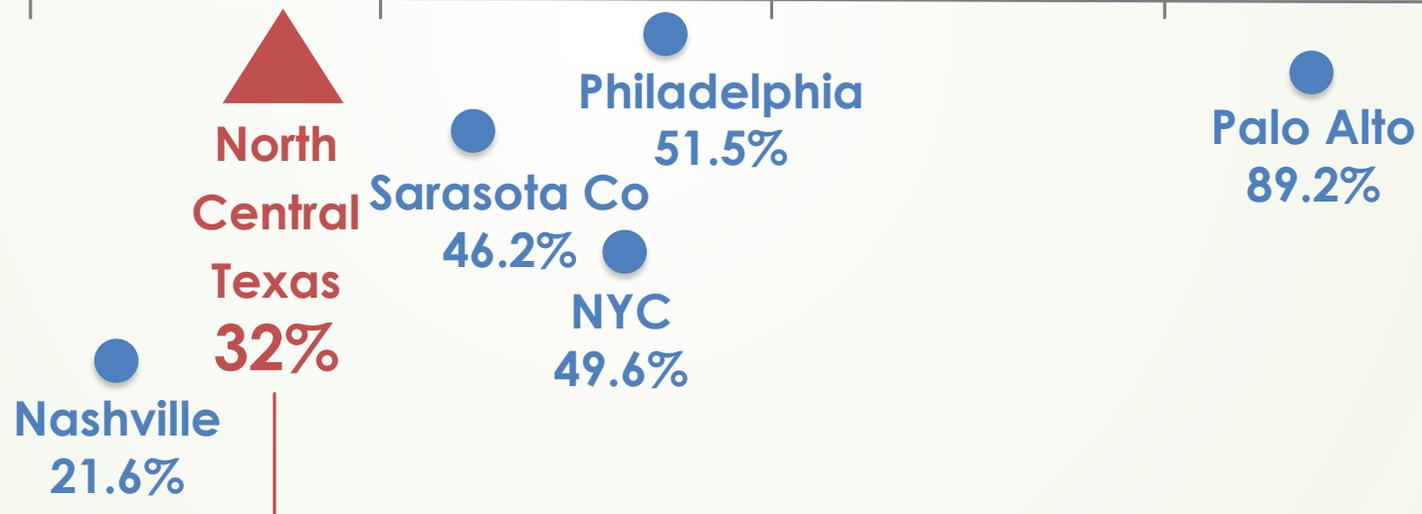
## Data on Participant Capture Rates – How Recycling Participants are Doing

Recycling Partnership data using un-bagged material figures



## Data on Whole City Capture Rates – How the Whole City is Doing

Recycling Partnership estimate using waste composition, recycling, and household data



NCTCOG – regional capture rate for residential curbside recyclables = **32.0%**

# MRF Survey

- Region's MRF operators completed MRF Survey developed by the Recycling Partnership
- Information provides understanding of the **problem materials** MRF operators encounter
- Collects information on **each individual product** generally accepted in single stream recycling programs
- **Provides indicator** of materials to focus on targeting throughout the region

# Top Regionally Accepted Materials

Paper	Plastic	Metal	Glass
OCC	Plastic Bottles	Aluminum Cans	Bottles/Jars
Mail, Magazines, Newspaper	Plastic Jugs	Steel/Tin Cans	
Kraft bags			
Office Paper			
Shredded Paper			

*Note: based on materials ranked 6 or 7 in MRF Survey analysis – for discussion purposes only (i.e. this **does not** suggest all communities in the region change their outreach to match this list)*

# Top Five Prohibitive Materials

- ▶ Respondents of the MRF Survey identified their **top five prohibitive items**
- ▶ The **responses** from the MRF Surveys show which materials are most detrimental
- ▶ The following slides show the top five prohibitive materials and explain **why they are problematic**

# Prohibitive Sharps Materials Explained

Rank	Materials	Definition
5	Needles/Medical Equipment	Sharps and material that contains hazardous fluids



© Can Stock Photo - csp2316236

Explanation
Sharps present a sticking hazard for MRF employees that are picking material off the line. The safety of those working at the MRF is the highest priority of MRF operators.

# Prohibitive Food Contaminated Materials Explained

Rank	Materials	Definition
4	Food/Yard Waste	Food contaminated material or other organic material



## Explanation

Food contaminated material contributes heavily to the amount of residue material that is disposed in landfills and is often mixed with other small particle materials such as glass.

# Prohibitive Explosive Materials Explained

Rank	Materials	Definition
3	Propane Tanks	A metal tank used to store propane for grilling

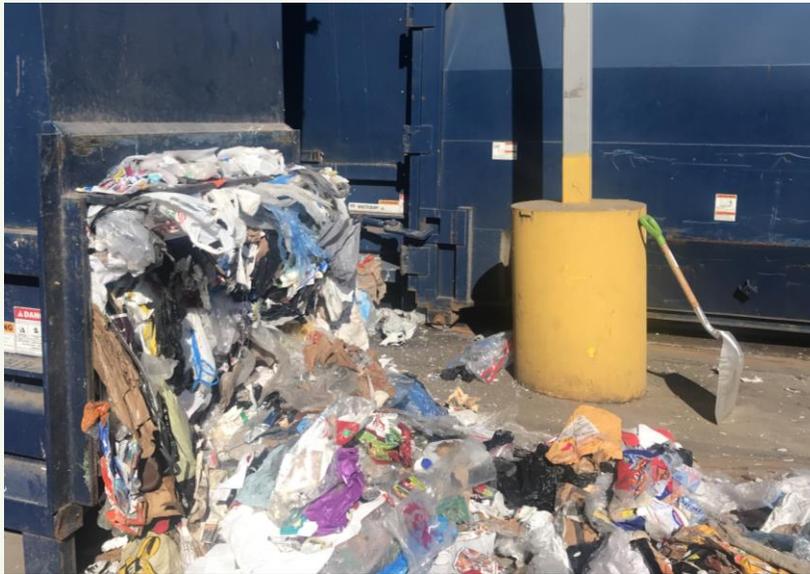


## Explanation

Propane tanks that enter a processing system can act as other steel cans through the processing equipment. If they are not screened out, they become an *explosion hazard* if they are baled with other metal material.

# Prohibitive Film Plastic Materials Explained

Rank	Materials	Definition
2	Plastic Bags	A bag that is manufactured from plastic film material



**Explanation**

Oftentimes acts as paper and contaminated clean recyclable bales. When China increased the standard of paper bales, the contamination caused by plastic bags became much more problematic than it had recently.

# Prohibitive Wrap-able Materials Explained

Rank	Materials	Definition
1	Wire, Hose Cords Rope, Chains	Post consumer product that extends during use and coils for storage



**Explanation**

This material wraps around MRF equipment, screens, and gears; causes unexpected breakdowns; equipment is stopped for operator to cut away material by hand



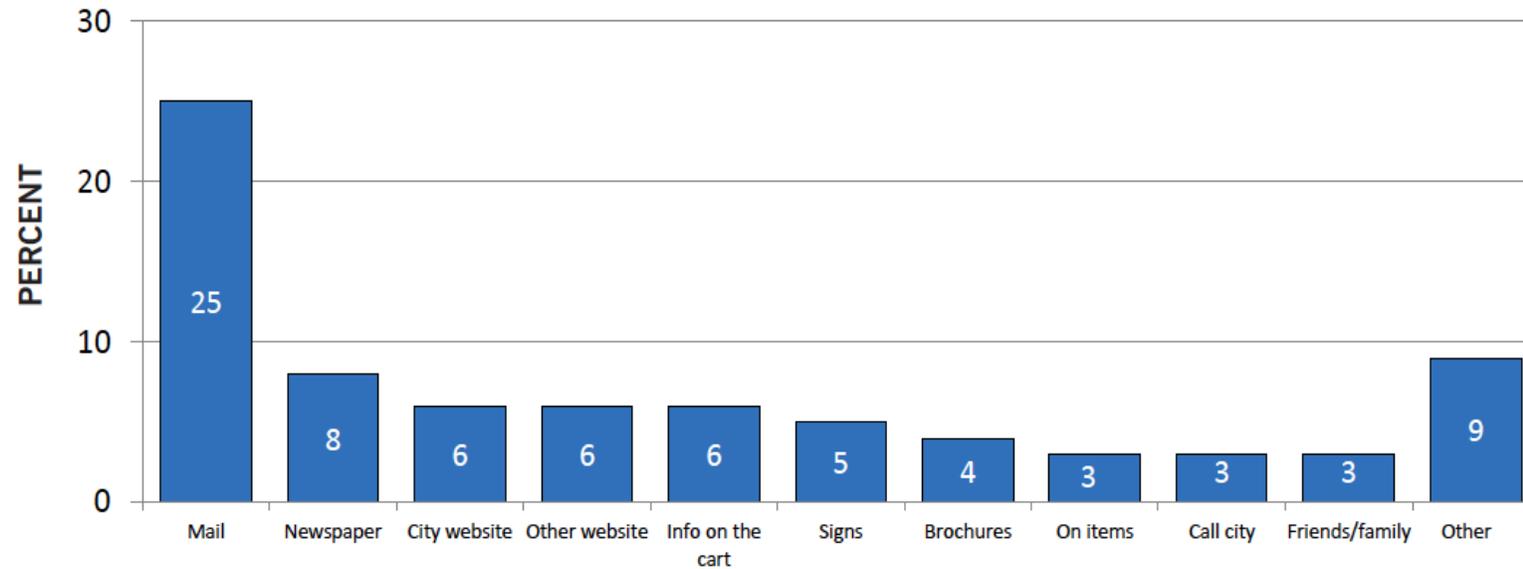
## WHAT COMMUNICATIONS SHOULD WE USE TO EDUCATE?

What works? What to expect?

### CHICAGO

Where do you look for information?

### Residents Rely on Information They Have Been Mailed About Recycling

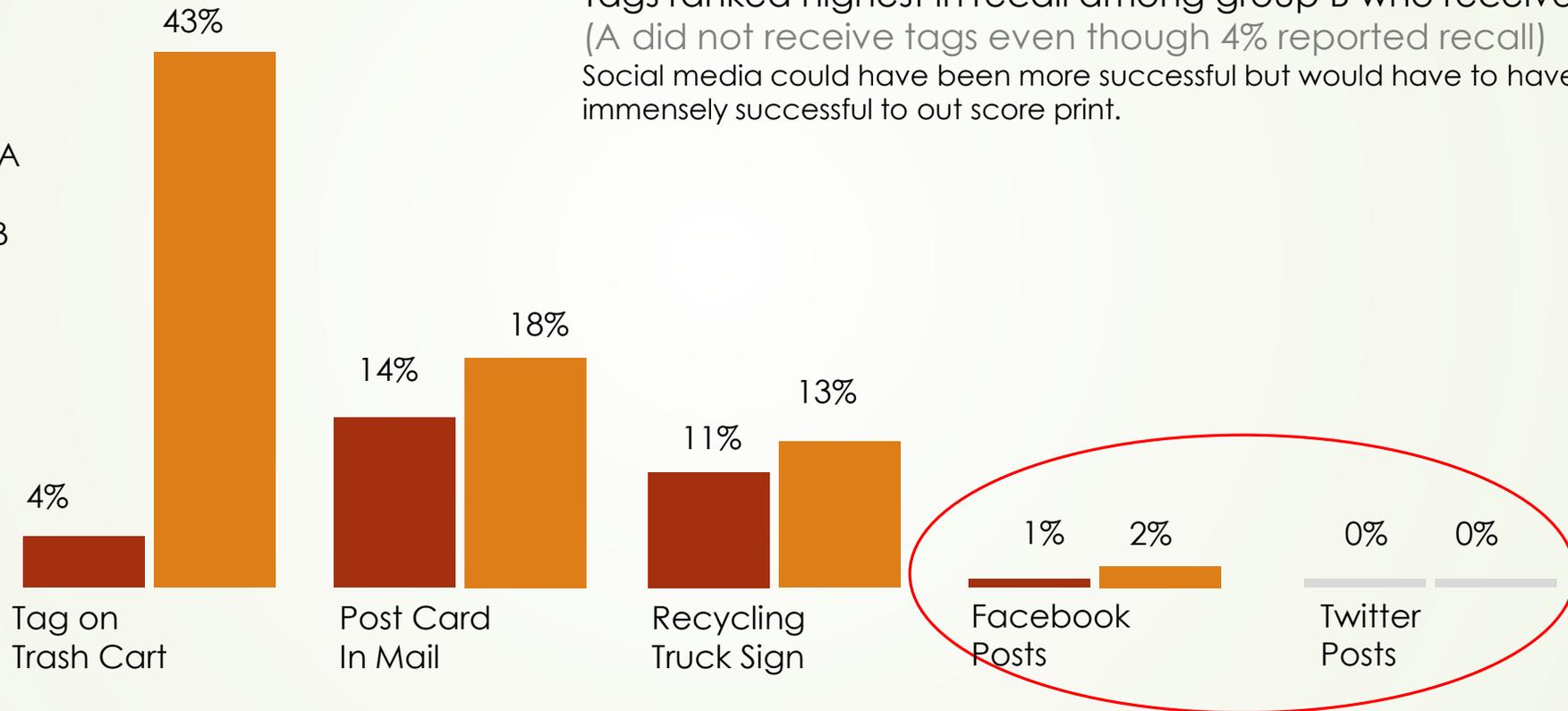


Q: Where do you generally find information about recycling?



## WHAT COMMUNICATIONS SHOULD WE USE TO EDUCATE?

GROUP A  
GROUP B



### DENVER

Tags ranked highest in recall among group B who received tags (A did not receive tags even though 4% reported recall)

Social media could have been more successful but would have to have been immensely successful to out score print.



BUILDING ON EXISTING AWARENESS, INSTRUCTIONAL and BEHAVIOR CHANGE ASSETS

**NO PLASTIC BAGS IN THE RECYCLING CART**

**DO NOT BAG Recyclables**

Collecting recyclables in a bag? Empty the contents into the cart.

Return plastic bags to retailers.

Town and Department  
**(123) 456-7890**

**SampleUrl.org**

**RECYCLE**

THANK YOU FOR RECYCLING THESE:

Cans	Cartons	Glass	Paper	Plastic
Aluminum and Steel Cans empty and rinse	Food and Beverage Cartons empty and replace cap	Bottles and Jars empty and rinse	Mixed Paper, Newspaper, Magazines, and Flattened Cardboard	Kitchen, Laundry, Bath: Bottles and Containers empty and replace cap

**NO!** Do Not Bag Recyclables  
No Garbage

No Plastic Bags or Plastic Wrap  
(return to retail)

**YUCK** No Food or Liquid  
(empty all containers)

No Clothing or Linens  
(use donation programs)

No Tangles  
(no hoses, wires, chains, or electronics)

Town and Department  
**(123) 456-7890**

**SampleUrl.org**

# 8. Recycling Technical Assistance Project

- Since October, CTRA has provided assistance to 3 cities: White Settlement, River Oaks, and Weatherford.
- Conducted a survey in December 2018 to gauge technical assistance needs in the region
  - 30 responses

# 8. Recycling Technical Assistance Project

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## ➤ Next steps:

- CTRA has been making follow up phone calls to the entities whose responses indicated potential need for assistance
- Continuing site visits for entities
- Potential for workshops moving forward

# Discussion Topics

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9. SHARE Electronic Recycling and Household Hazardous Waste Disposal Project

10. Illegal Dumping Training Update

11. Recycling Coordinator Roundtable

# Discussion Topics

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## 12. NCTCOG Updates

- **Subcommittee Membership**
- **FY2018-2019 Solid Waste Pass-Through Grant Program Update**
- **Western Area Solid Waste Workshop:**
  - Wednesday, February 20, 2019
  - Chandor Gardens, Weatherford, TX
- **Trash Free Waters**

# Other Business

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13. Future agenda items

14. Roundtable topics

# 15. Next Meeting Date:

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**Tuesday, May 7, 2019 at 1:30 p.m.**

Transportation Council Room  
NCTCOG Offices, CPII

# Contact

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# Connect



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