

Wastewater Etiquette Program Campaign Development



September 11, 2014



Trinity River Authority of Texas

The Problem

Flushing the Non-dispersible...

- Overwhelms Municipal Sewer Systems
- Causes Septic System Troubles
- Creates Backups in Private Plumbing
- Damages and Strains WW Headworks
- Increases WW Treatment Cost



Harms public health, water quality, and the environment

CRWS Lift Station 1

-Trinity River Authority of Texas



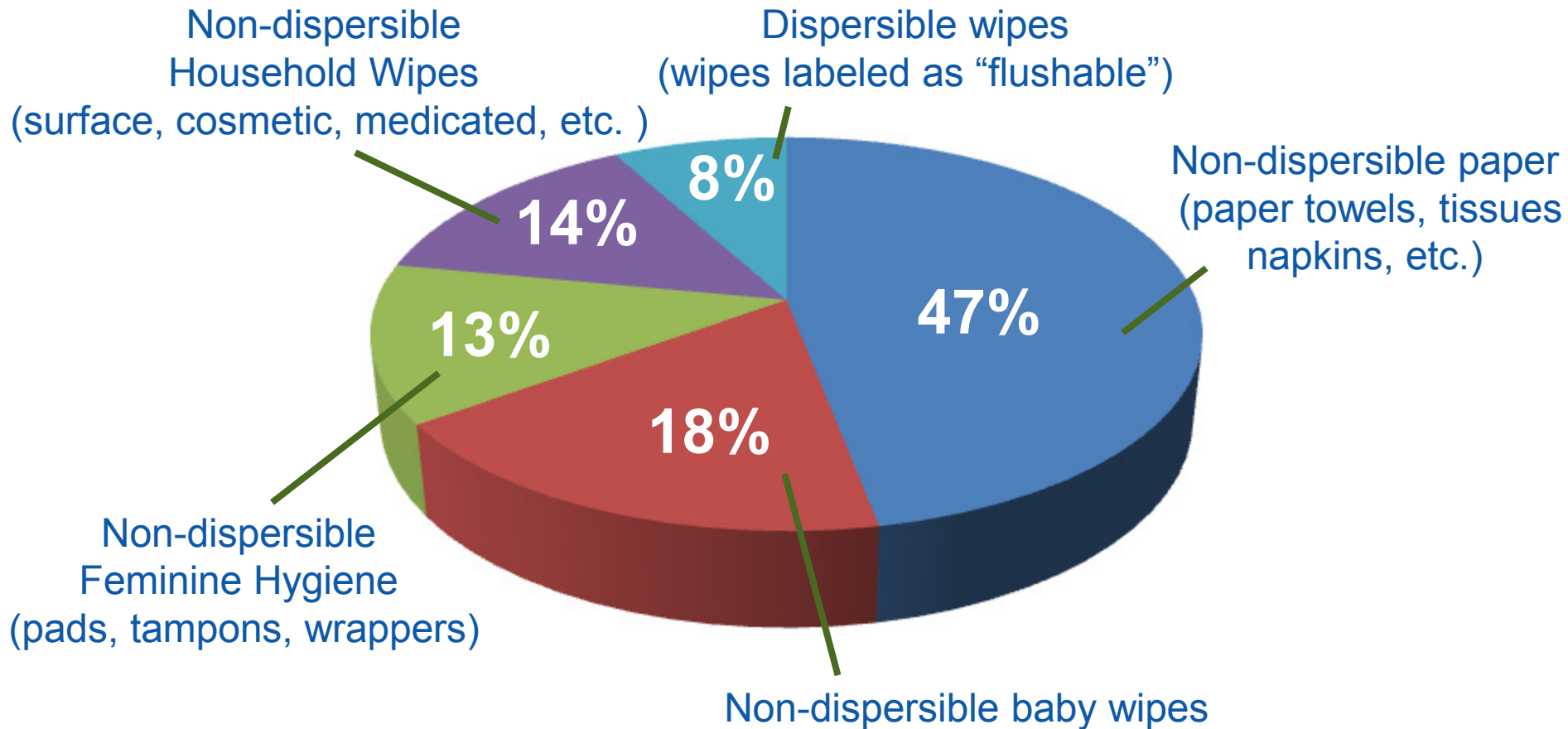
'Fatberg' 15-ton

-Southwest London Sewer



Common Clog Culprits*

(*Average of 3 Field Studies with INDA and Wastewater Agencies)



National Labeling Efforts

- INDA, NACWA, WEF and APWA
- Updated Code of Practice
- Do Not Flush Logo
- Costco Labeling



Wastewater Etiquette Campaign

Our Purpose...

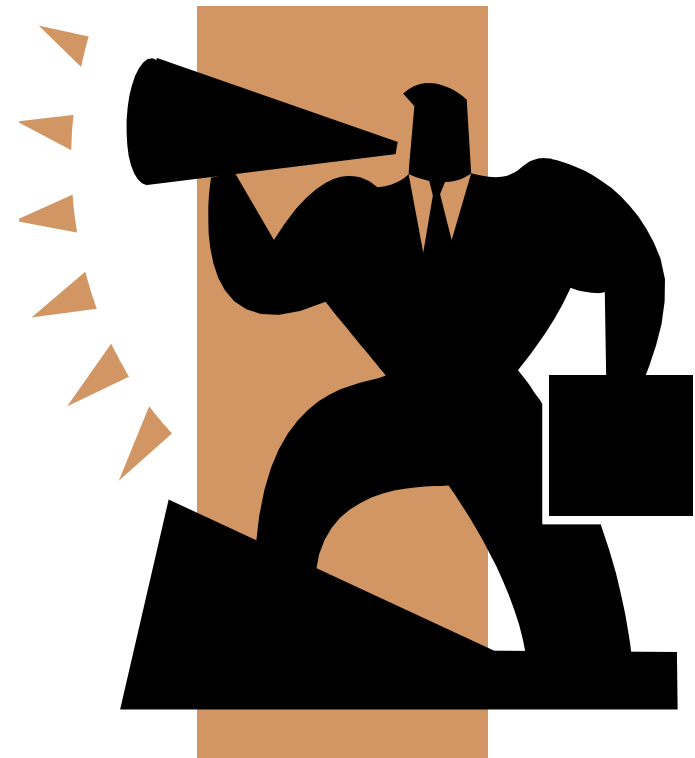
- Educate the Community on Proper Disposal Methods
- Minimize Wastewater Treatment Cost
- Protect Public Health and Water Quality
- Participate in National Advocacy Efforts



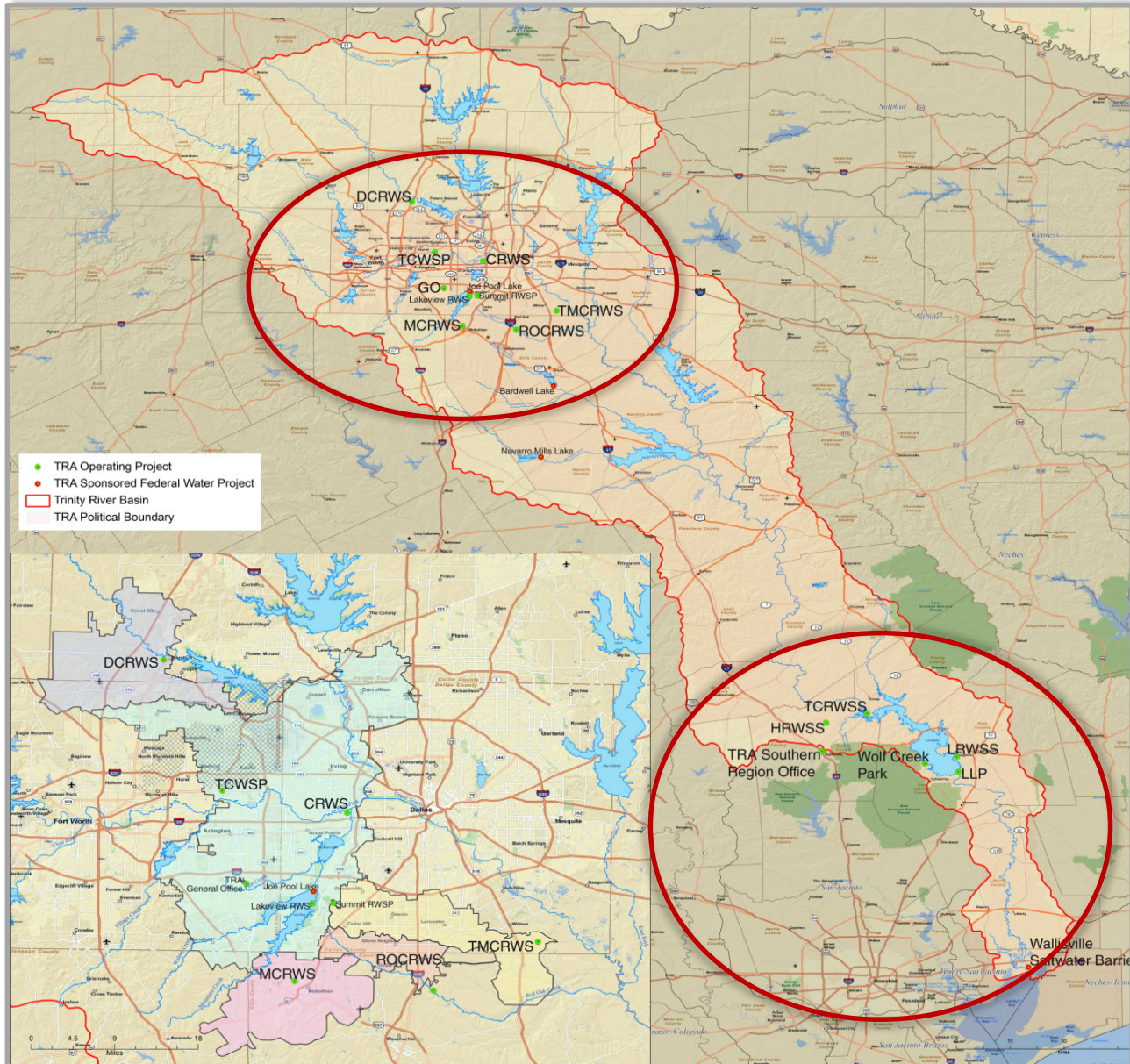
Wastewater Etiquette Campaign

Our Objectives...

- Create Themed Media Message
 - Multifaceted Approach
 - Clog Monster Mascot
- Foster Partnerships to Spread Outreach
 - Related Organizations
 - Customer Cities
- Evaluate Campaign Success
 - Monitor Maintenance Costs



TRA Basin-Wide Facilities/Projects



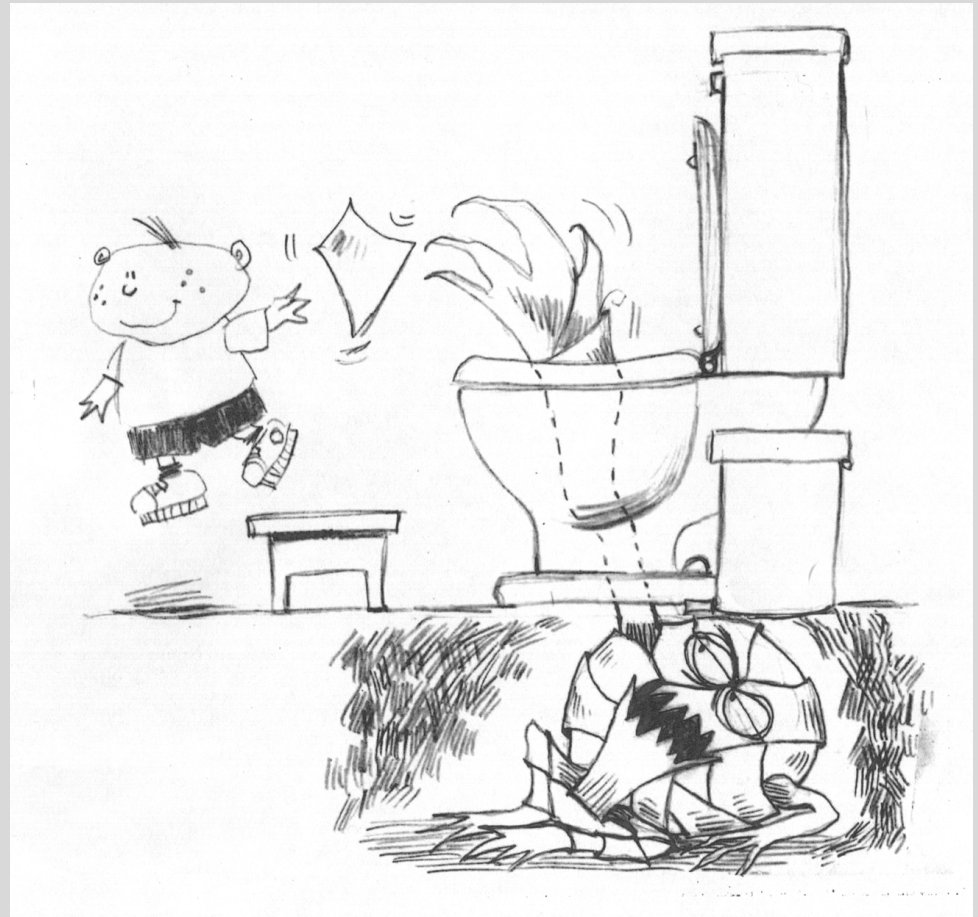
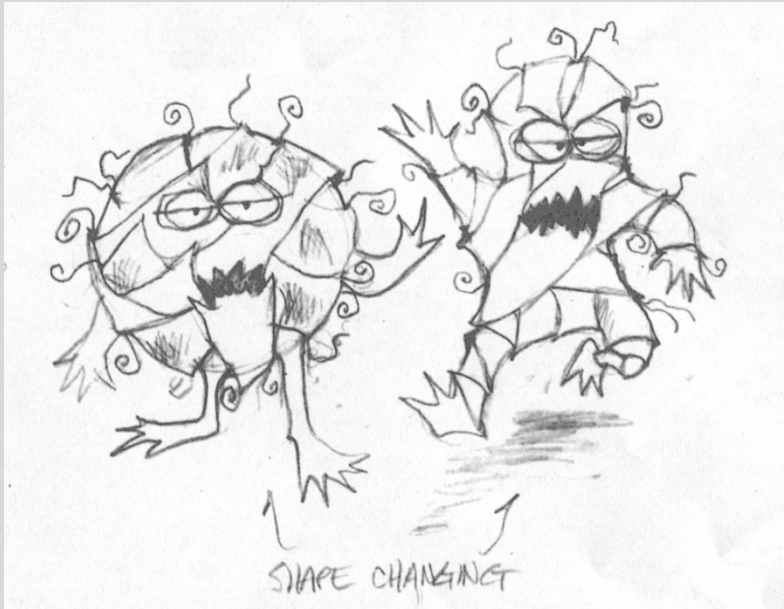
Wastewater Etiquette Committee

Efforts so far:

- Begun work on outreach message and mascot artwork
 - Took to NTGAC for feedback
- Partnership Interest (gathering information)
 - What is the preferred/available outreach
 - Bill Inserts, Newsletter, Social Media, Etc.
- Website Creation
 - Reviewing hosting options and content gathering



The Evolution of the Clog Monster



Don't feed the clog monster

CAN YOUR WIPES
Practical to use, easy to can!

CRWS Collection System Survey

Quick Facts

- 28% Growth in Rag Disposal (2008 vs. 2013)
- \$10,000 increase in Cost of Removal at headworks (2008 vs. 2013)
- Lift Station 1 :De-ragged 19 times in May 2013. Same lift station De-ragged zero time in May 2008.

Survey Goal

- Determine **Type** and **Primary Sources** of Non-Dispersibles in CRWS Drainage Basin



CRWS Collection System Survey

If We Know Type and Primary Sources

- Better focus outreach materials
- Involve Pretreatment for Industrial/Commercial Sources
 - TRA Contracting Parties have ability through Ordinances to regulate non-residential Users
- Most likely BMP scenarios



CRWS Collection System Survey

Efforts so far:

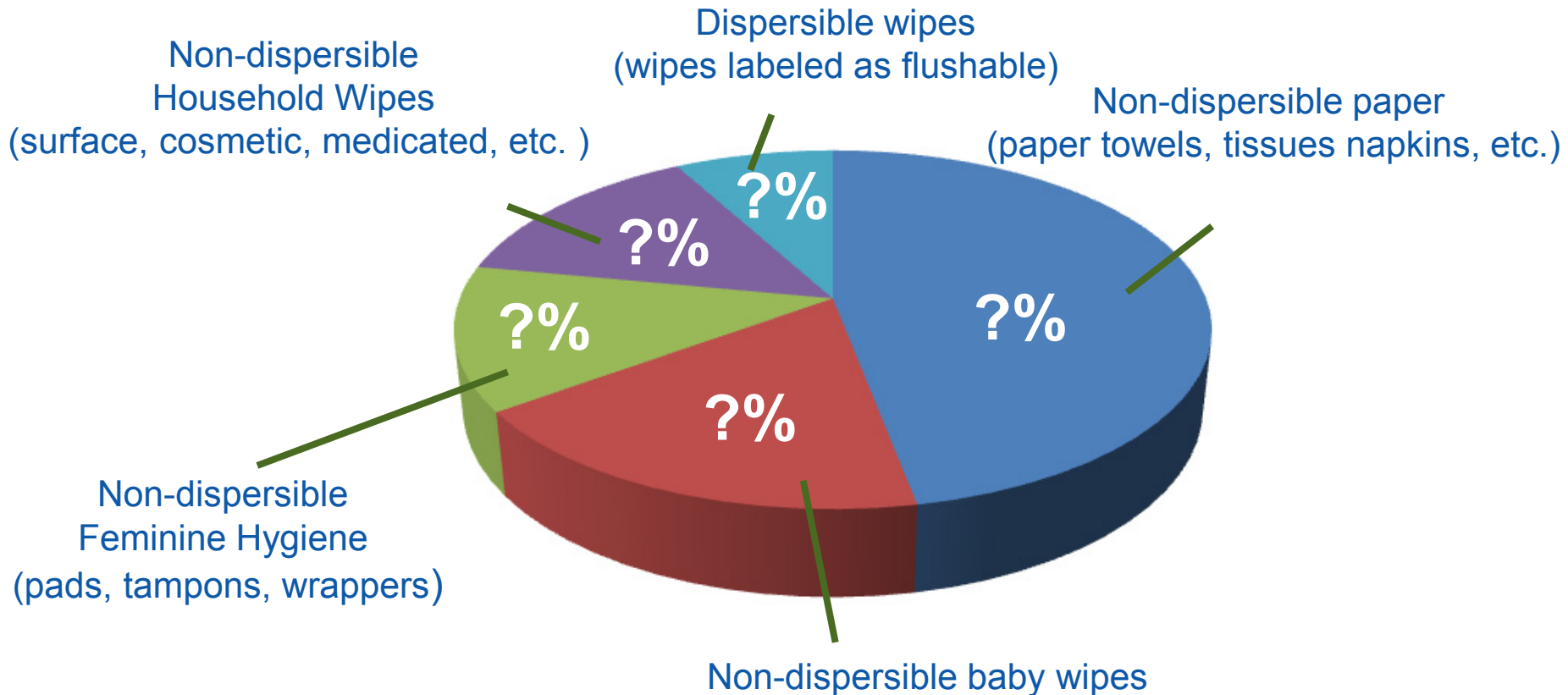
- In process of gathering responses related to issues with non-dispersibles?
- Polled CRWS Contracting Parties
- Polled Other TRA WWTP Managers
 - 4 other TRA Projects
- Polled Non-CRWS Contracting Parties



CRWS Collection System Survey

Efforts so far:

- In process of developing classification system for what we are capturing at CRWS Influent and Collection System



CRWS Collection System Survey

TRINITY RIVER AUTHORITY
Data Entry Form
SOP for Evaluating Materials in Pump Clogs and Sewer Obstructions

Efforts so far:

- Draft Form

Project: _____
 Location: _____
 Nature of interference (pump clog, sewer obstruction, other): _____
 Date: _____ Weather Conditions: _____
 Operator(s): _____

Rinsing materials in a bucket prior to screening may make it easier to separate and identify individual materials.

Material	# of Piles	% of Total (# Piles/Total # Piles)	Tear (Yes or No)	Description
Paper Towels				C-fold towels or serrated edge
Cleaning or Other Large Wipes (8" - 12" on longest side)				Often have a perforated or serrated edge. Include shops towels, medical wipes, and "Swiffer"-type pads here.
Baby Wipes (Medium: 8" on longest side)				Include all embossed or imprinted wipes here.
Personal Wipes (Small: 2" - 8" on longest side)				Include makeup remover pads, hemorrhoid wipes, hand wipes.
Hygiene Products				Include tampons, tampon applicators, and sanitary pads as well as adult diapers.
Plastics				Stirrers, wrappers
Total # Piles				

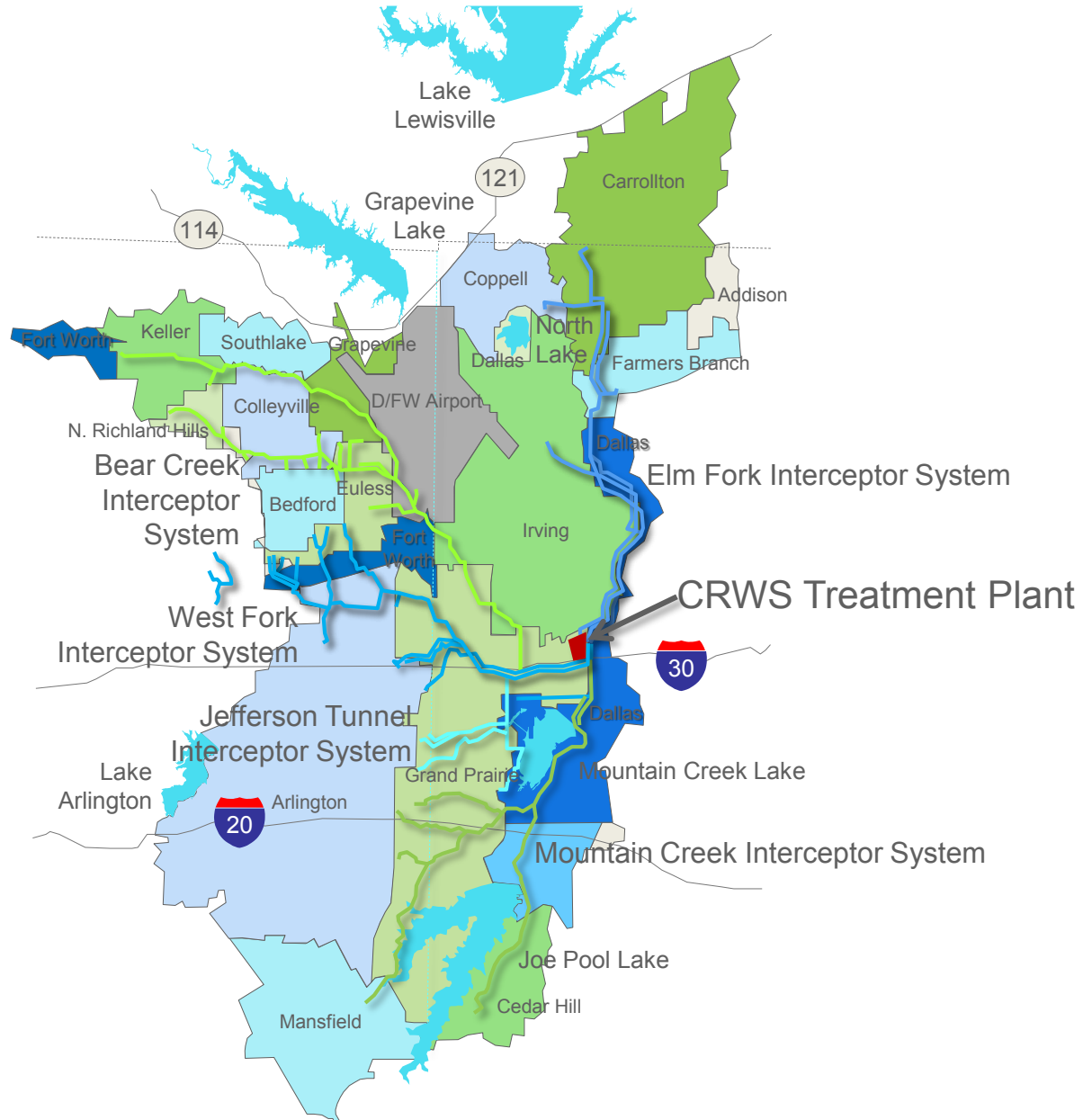
If you are unable to separate materials, generally describe what you see: _____

CRWS Collection System Survey

Efforts so far:

- Identified Evaluation Locations

Contracting Parties	
Irving	1957
Grand Prairie	1957
Farmers Branch	1957
Dallas	1957
Carrollton	1967
Arlington	1973
Bedford	1973
Eules	1973
D/FW Airport	1973
Mansfield	1973
Grapevine	1974
Colleyville	1975
N. Richland Hills	1975
Hurst	1975
Coppell	1976
Fort Worth	1976
Keller	1984
Duncanville	1984
Cedar Hill	1985
Southlake	1988
Addison	1996



CRWS Collection System Survey

Efforts so far:

- Collection Device Trials



Wastewater Etiquette Committee

Future Work:

- Fine tuning of message and mascot
- Evaluation of Collection System Survey
 - What can we provide for the national advocacy effort
 - Help focus outreach
- Evaluation of partnership interest



Wastewater Etiquette Committee

Future Work:

- Evaluation of available monetary costs for campaign
- Evaluation of outreach platform
 - Website start up
 - Social media
 - Paper based outreach
- Establish formal process for monitoring Plant and Collection System maintenance savings



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