# Navigating PFAS Regulations Trinity River Authority of Texas





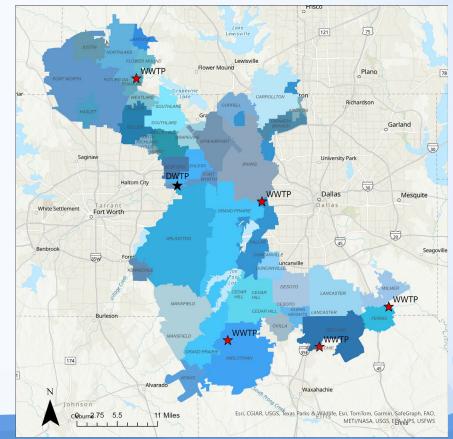
### **Trinity River Authority of Texas**

TRA provides wholesale water and wastewater treatment services

#### **Northern Region:**

- 5 WWTPs & 1 drinking water treatment plant
- Each plant serves multiple municipalities; 40+ total





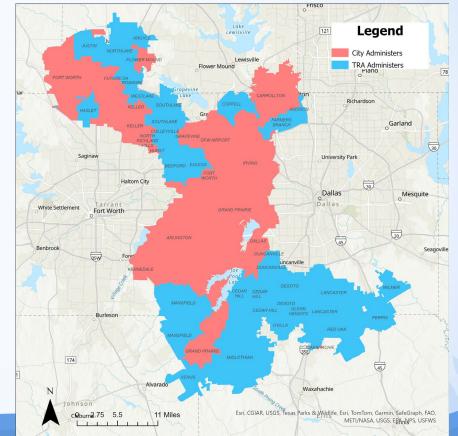
#### **Trinity River Authority of Texas**

Unique relationship with our customer cities:

- TRA holds TPDES permit = Control Authority
- Customer holds Ordinance = Legal Authority

TRA and its customer cities work together to oversee the pretreatment programs:

- Some customer cities administer their own pretreatment program
- Some customer cities enlist TRA to administer the pretreatment program on their behalf.



## What is PFAS?

02

## What is PFAS?

#### Prevalence

In a wide range of consumer and industrial products. **Over 12,000** have been identified.

#### Creation

First appeared as non-stick coatings in the 1940's. Do not occur naturally.

#### Persistance

Do not naturally break down. Known as **"forever chemicals".** 

#### Exposure

We use PFAS containing products and ingest, inhale, or rub PFAS into our skin.

#### Problem

Detected in **99%** of the population's blood. Linked to many different health concerns, including cancer.

#### Detection

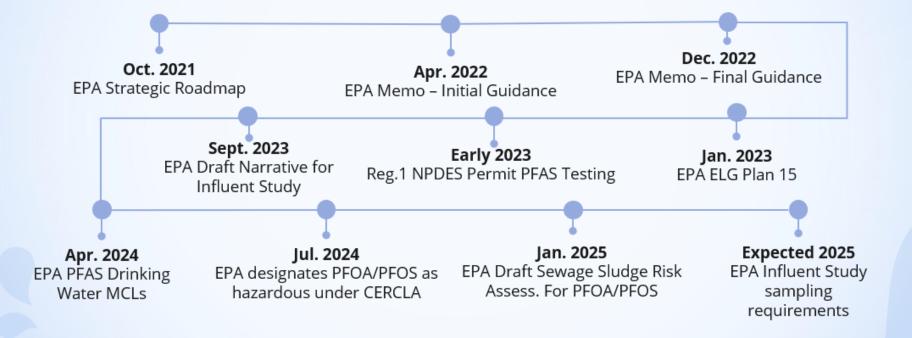
PPM=1 drop in 13 gallons PPB=1 drop in 10,000 gallons **PPT=1 drop in 20 Olympic** swimming pools.



## PFAS Regulatory Timeline

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## **PFAS Regulatory Timeline**







## TRA Proactive Initiatives

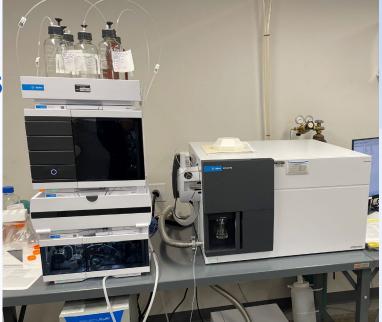
## **TRA Proactive Initiatives**

#### PFAS Lab Equipment

- Capable of testing 40 PFAS in water, wastewater, and biosolids
- Methods 533, 537.1 & 1633 (in-house)
- Method 1621 (3<sup>rd</sup> party lab)
- PFAS analysis available to utilities across Texas
- E-mail <u>PFAStesting@trinityra.org</u> for more info

#### Sampling

- Quarterly sampling at each plant & throughout collection systems
- Developed PFAS sampling plan for consistency
- Dedicated personnel for PFAS sampling
- Tracking & trending this data



#### **PFAS Survey**

- Developed & distributed to EPA "facilities of interest"
- Very large PFAS universe
- Proactively collect needed PFAS user data so we could focus efforts
- Dedicated personnel for PFAS survey efforts

## **EPA Facilities of Interest**

https://echo.epa.gov/trends/pfas-tools

Plating, Electroplating, Metal Finishing and/or Circuit Board Manufacturing

Paper and/or Packing Manufacturing

Leather Tannery, and/or Leather/Fabric/Carpet Treater

Landfill with Leachate Discharge

**Centralized Waste Treatment** 

Manufacturers of Polytetrafluoroethylene/PTFE coatings (i.e. norstick "Teflon")

Use of Fire Suppression Systems with Aqueous Film Forming Foam/AFFF (Class B) or other foa

Industrial Site with Soil and/or Groundwater Contamination (including sites where AFFF was use

Catch All: Any location where PFAS are suspected to be present in any processes, chemicals, products, by products, wastewater, or other operations.



## **TRA PFAS Survey**

#### **General Information**

Per- and Polyfluoroalkyl Substances, or PFAS, is a name for a large group of man-made fluorinated compounds that are used in a wide variety of industry and consumer products worldwide because of their resistance to water, oil, and heat. PFAS are commonly found in every American household in products as diverse as clothing, furniture, adhesives, food packaging, heat-resistant non-stick cooking surfaces, cosmetics, hygiene products, paints, cleaning products, and the insulation of electrical wire. These chemicals are long-lasting and break down very slowly over time. For additional information about PFAS, please visit <a href="https://www.epa.gov/pfas">https://www.epa.gov/pfas</a>.

Please complete and submit this form before the stipulated deadline. Please be advised that failure to submit this form will result in repeated contact by the City and/or their duly authorized representative until it has been received.

Next

\* Required

#### **General Information** (Required)

1. Name of Facility \*

Enter your answer

2. Facility Street Address \*

Enter your answer

3. Facility City \*

Enter your answer

\* Required

Yes

#### **Business Related Activities** (Required)

Does the facility conduct the following manufacturing processes, or related activities?

14. Plating, Electroplating, Metal Finishing and/or Circuit Board Manufacturing \*

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#### Plating, Electroplating, Metal Finishing and/or Circuit Board Manufacturing

PFAS-containing chemicals (including perfluorooctane sultonate/PFOS) have been used by electroplaters as a demister/defoamer/sultactant to control air emissions of heavalent chromium. PFAS have also been found in wetting agents and other picting chemicals involving other metals and plastics. Some chemicals identified as "PFOS-Free" may still contain PFAS. Even if used many years ago, PFAS-containing chemicals may persist in plating tanks, etch tanks, sumps, air emission control systems and secondary containment pits. PEOS containing tion in watewater may be possible years after the discontinued use of PFOS-containing chemicals.

15. What types of plating are currently performed at your facility? \*

Enter your answer

16. What types of plating were previously performed at your facility? Please summarize the plating activities over the last 20 years if possible.\*

Enter your answer

17. Are or were demisters/defoamers/surfactants used to control air emissions or as wetting agents for any plating or etch tanks? If so, what are the names of the chemicals and amounts and concentrations used? \*

Enter your answer

18. Are there any other products or chemicals that are used or generated in the plating process containing PFAS, including any fluorinated chemicals?

Look for 'fluoro' in the product/chemical name and on the SDS; e.g. 'fluorinated surfactant(s)' or 'organic fluorosulfonate', etc. https://comptox.epa.gov/dashboard/chemical-lists/epapfasiny

If so, list the name of each product/chemical and the amount and concentration used/generated. "

\* Required

#### **Facility Discharges**

22. PFAS chemicals are present in a wide range of consumer and industrial products due to their resistance to grease, oil, water, and heat. These consumer and industrial products include clothing, furniture, adhesives, food packaging, heat-resistant non-stick cooking surfaces, cosmetics, hygiene products, paints, cleaning products, and the insulation of electrical wire.

Are Per-/Polyfluoroalkyl Substances (PFAS)\*\* suspected to be present in processes, chemicals, products, byproducts, wastewater, or other operations at this facility?

\*\*(Reference all SDS's for chemical names including "fluoro", or visit EPA's PFAS Chemical Inventory at <u>https://comptox.epa.gov/dashboard/chemical-lists/epapfasinv</u> to enter the chemical name into the "Preferred Name" search bar.)

Yes; PFAS are suspected to be present in processes, chemicals, products, byproducts, wastewater, or other operations at this facility.

No; PFAS are not suspected to be present in processes, chemicals, products, byproducts, wastewater, or other operations at this facility.

Presence is unknown in processes, chemicals, products, byproducts, wastewater, or other operations at this facility.

\* Required

#### Authorized Representative Signature

An authorized representative of the facility must sign below indicating the information provided in this survey is, to the best of your knowledge, true, accurate, and complete.

26. Authorized Representative Name \*

Enter your answer

27. I agree that all information provided is accurate to the best of my knowledge. \*

O Agree

28. Additional comments:

Enter your answer

You can print a copy of your answer after you submit

Submit

Back





# Survey Distribution & Challenges

## **Creating Our PFAS Universe**

#### **Data Sources**

- Acquired facility list from our mailing list provider based on:
  - Service Area ZIP Codes
  - SIC/NAICS Codes of Interest

#### Initial Filter

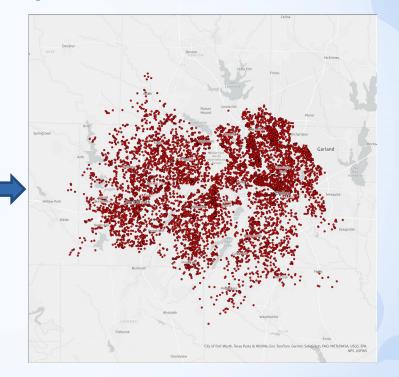
- Filtered out any facilities not within our service area using internal service area data
- Joined every facility to its corresponding WWTP using internal data

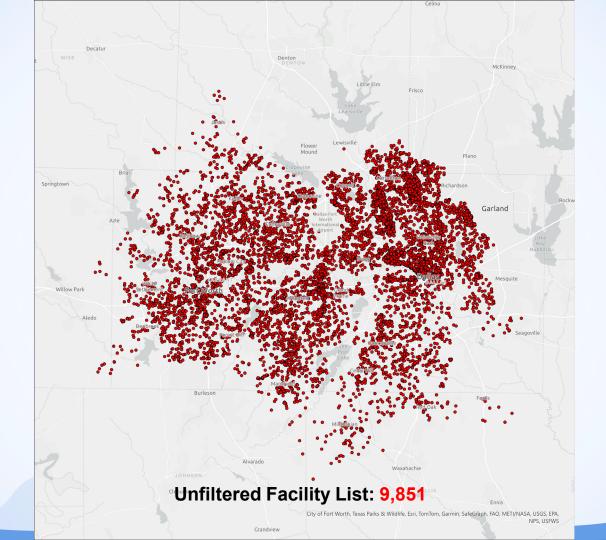
#### Confirm Applicability

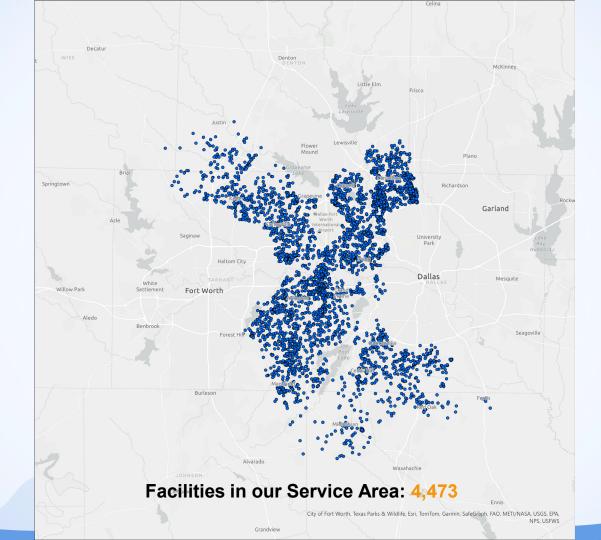
- Remove residential addresses from survey list
  - Publicly-available zoning information from customer cities
  - Web engine searching

### Transform Tabular Data to Places on a Map

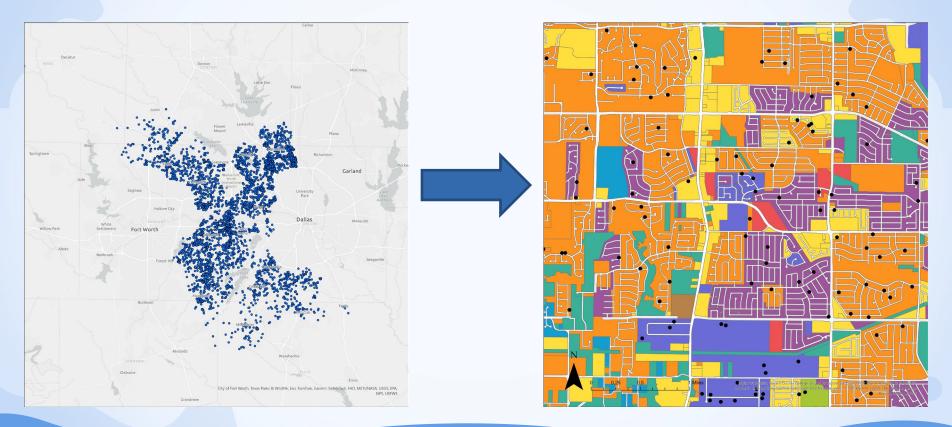
DNSI -	COMPANY	- ADDRESS	CITY	STA -	ZIP +	CR -	DP	- <u>ZIP4</u>	* LEGALNAME
313210	Atlas Match LLC	P O Box 348	Jaffrey	NH	03452-0348	B004	1	48 0348	ATLAS MATCH, L.L.C.
7004340	Mauldin Economics LLC	P O Box 1423	Stowe	VT	05672-1423	B013		23 14	23 MAULDIN ECONOMICS, LLC
310632	Anne Cameron	P O Box 1153	Sharon	CT	06069-1153	B005			53 ANNE CAMERON
291516	Hauck Mfg Co	P O Box 90	Lebanon	PA	17042-0090	B002		90 0090	HAUCK MFG CO
14284480	Epiroc Drilling Tools LLC	P O Box 271	Fort Loudon	PA	17224-0271	B003		71 0271	EPIROC DRILLING TOOLS LLC
325939	Walls Industries LLC	P O Box 21647	Greensboro	NC	27420-1647	B022			47 WALLS INDUSTRIES LLC
572854	Sustainable Photon LLC	P O Box 323	Tignall	GA	30668-0323	B003		23 0323	SUSTAINABLE PHOTON , LLC
0263361	Leathermans Embroidery	P O Box 1423	Ponte Vedra Beach	FL	32004-1423	B013			23 LEATHERMAN'S EMBROIDERY
162877	Standard Industries Inc	P O Box 6377	Mobile	AL	36660-0377	B004		77 0377	STANDARD INDUSTRIES INC.
512027	Aztec Industries Inc	P O Box 180067	Jackson	MS	39218-0067	B001		67 0067	AZTEC INDUSTRIES, INC.
13372681	Kroger Co	P O Box 1525	Cincinnati	OH	45201-1525	B015			25 THE KROGER CO
577702	Zimmer Dental Inc	P O Box 708	Warsaw	IN	46581-0708	B050	08	0708	ZIMMER DENTAL INC.
322649	Darling Ingredients Inc	P O Box 3185	Melvindale	MI	48122-0185	B004		85 0185	DARLING INGREDIENTS INC.
19019106	Tellabs Broadband LLC	P O Box 3220	Naperville	L.	60566-7220	B050		20 72	20 TELLABS BROADBAND LLC
587227	Clariance Inc	P O Box 259499	Chicago	R.	60625-8603	B038		99 86	03 CLARIANCE, INC.
379868	Voice Of Miracles & Mission	P O Box 2544	Joplin	MO	64803-2544	B007			44 VOICE OF MIRACLES & MISSION INC
332249	Atkinson Industries LLC	P O Box 268	Pittsburg	KS	66762-0268	B003		68 0268	ATKINSON INDUSTRIES LLC
334259	Bridge Purch Solutions Inc	P O Box 454	Rogers	AR	72757-0454	B004		54 0454	BRIDGE PURCHASING SOLUTIONS, INC.
12943540	Audio Technology Inc	P O Box 1708	Ponca City	OK	74602-1708	B012	08	17	08 AUDIO TECHNOLOGY INC
13995824	Car Maverick LLC	4341 Lndbergh Dr Ste 200k	Addison	TX	75001				CAR MAVERICK LLC
19640345	Proterra Advertising	P O Box 96	Addison	TX	75001-0096	B001		96 0096	PROTERRA ADVERTISING
242043	Colbyco Industries LLC	P O Box 619	Addison	TX	75001-0619	B007		19 0619	COLBYCO INDUSTRIES, LLC
359964	My Cupcake Garden LLC	P O Box 724	Addison	TX	75001-0724	B009		24 0724	MY CUPCAKE GARDEN, LLC
18931437	Foreclosure Listing Service	P O Box 1007	Addison	TX	75001-1007	B012	07	10	07 FORECLOSURE LISTING SERVICE INC
!1641877	Steven V Tipps	P O Box 1145	Addison	TX	75001-1145	B014		45 11	45 STEVEN V TIPPS
7534819	Digi Point Marketing LLC	P O Box 1168	Addison	TX	75001-1168	B014		68 11	68 DIGI POINT MARKETING, LLC
8092243	Details Group Companies Inc	3720 Westgate Ln Apt 329	Addison	TX	75001-1677	C061		79 16	77 DETAILS GROUP OF COMPANIES INC.
8253255	Calhoun Marshala	3720 Westgate Ln	Addison	TX	75001-1758	C061		99 17	58 CALHOUN MARSHALA
307621	Dinspace LLC	P O Box 1826	Addison	TX	75001-1826	B022		26 18	26 DINSPACE, LLC
		12 2 2 12 12 22	1.14	-					

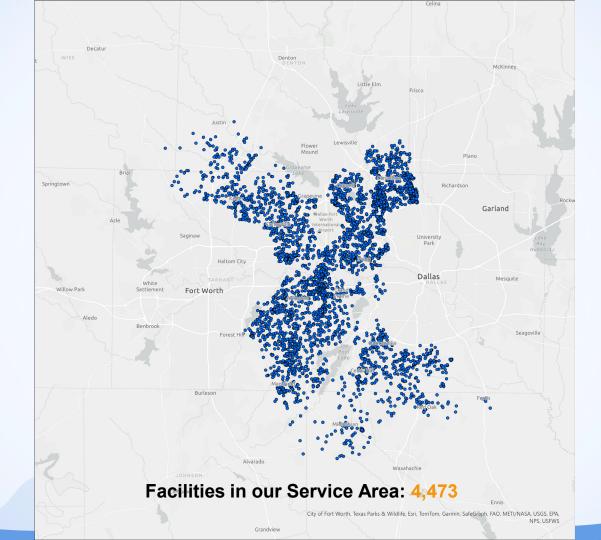


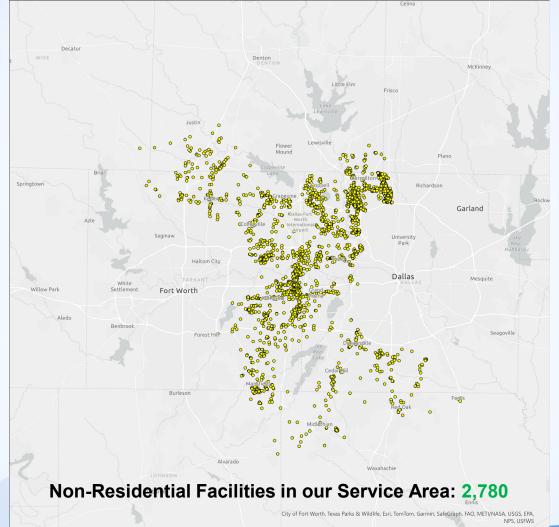




### Remove Facilities in Residential Only Zones







## **Additional Facilities**

#### Landfills

 Relied on customer cities to provide location data

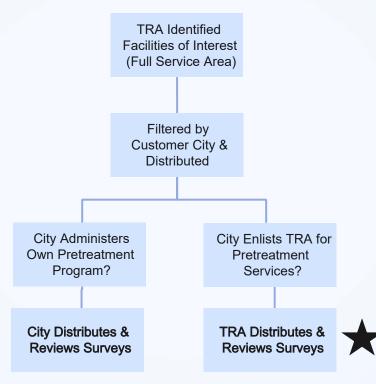
#### Fire Stations/Training

- Relied on customer cities to provide location data
- Lack of required reporting made it challenging to locate
- Google Searches
- EPA ECHO Tool

#### Airports

- 14 CFR Part 139 Airports
- Residential Landing Pads may be included

## **Survey Distribution Efforts**



## **Phased Roll-out Approach**

EPA Facilities of Interest

Phase I	Phase II		Phase III	Phase IV
•Permitted SIUs	•Manufacturers o •Chemical and HazardousWaste •Paper Mills and •Landfills •Fire Suppression Response	Management Products	<ul> <li>Other Chemical Manufacturers</li> <li>Textile/Fabric Mills</li> <li>Leather/Tanning</li> <li>Electronics Manufacturing(Printed Circuit,Semiconductors)</li> <li>Military/National Defense</li> </ul>	<ul> <li>Paint and</li> <li>CoatingManufacturing</li> <li>Petroleum and</li> <li>GasManufacturing</li> <li>Car Washes, Automotive, etc</li> <li>Other Small Businesses</li> </ul>

## **Challenges in Distribution**



#### **Missing Contact Info**

- E-mails not included in the facility spreadsheet
- Could not eliminate physical mail out
- E-mails were added after submission

#### **Unclear Service Area**

- Some facility addresses fell under one city, but drained through a neighboring city
- Customer cities were asked to review facilities for accuracy



#### **User Confusion**

 Some facilities don't know what the survey is asking or needing



 $(\diamond)$ 

#### No Response

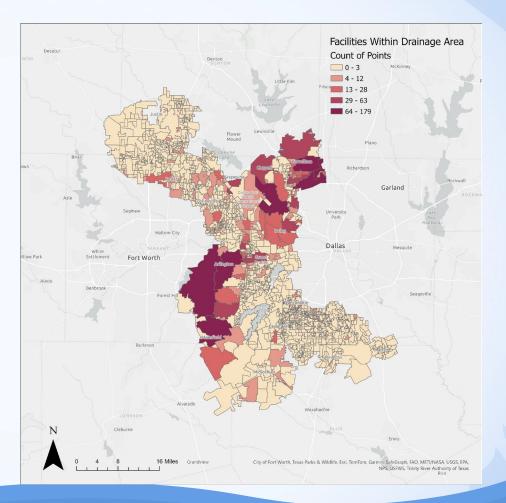
- Some facilities don't respond
- Requires in-person visit
- Electronic format with QR code increased participation
- Also lead to cost savings related to distribution

## **Survey Review & Categorization**

High	Mentioned in 4-5 of the lists used by the EPA to determine categories of concern. Categories of high, proven concern as explained by case studies were also included in this classification. Process wastewater discharged.
Moderate	Mentioned in 2-3 of Lists used by the EPA to determine categories of concern. PFAS likely present in products. Process wastewater discharged.
Low	Mentioned in 0-1 of Lists used by the EPA to determine categories of concern. Shows potential to discharge process wastewater based on survey responses.
None	Facility discharges wastewater from restrooms only, is a commercial or sales office, or is a residential address.

#### **PFAS Goals**

- Use collections system sampling data and PFAS Survey data to identify hot spots of PFAS contribution within our system
- Identify biggest PFAS contributors so we can focus limited resources when industrial PFAS regulations are released
- Proactively minimize PFAS contribution from industrial and commercial users through BMPs



## **Thank You**

#### **Speaker Contact Info:**

Gigi Garcia Environmental Specialist Ph: (972)975-4323 E: <u>garciagj@trinityra.org</u>

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