



Plano

City of Excellence

City of Plano Grease Trap Risk Assessment and Inspection Program

October 2024

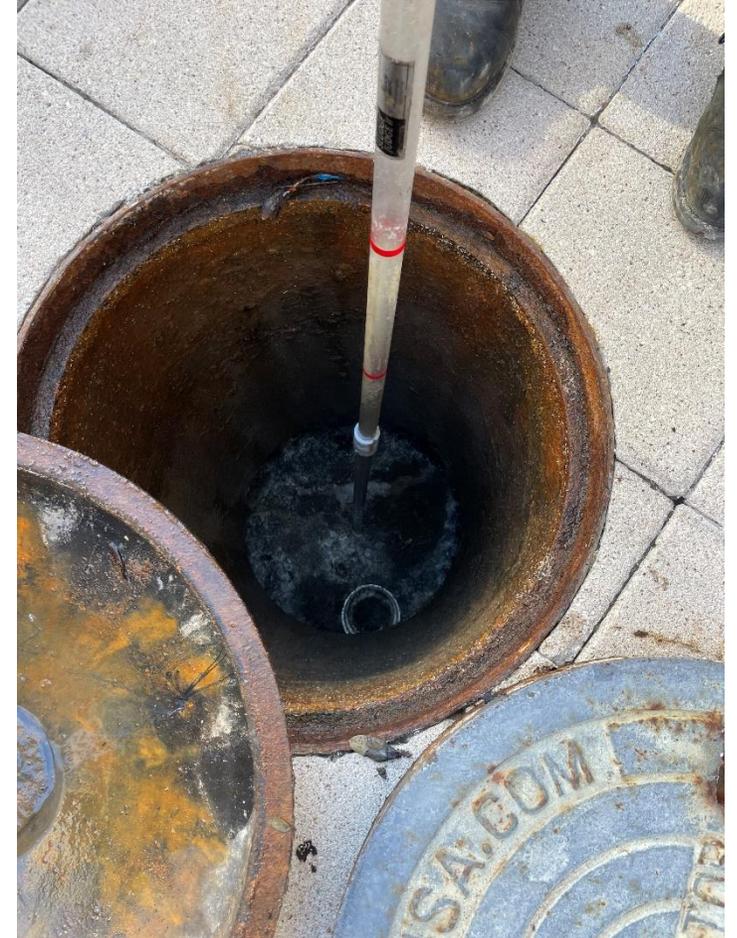
Background

- City of Plano
 - Population: almost 300,000 (9th most populous in Texas)
 - Over 1700 Food Service Establishments (FSEs) and growing monthly
 - Over 50% of the population are classified as “minorities”, making Plano a true melting pot of culture, food, and traditions.
- To protect Public Health and the Environment, a monitoring program for grease traps was needed to help prevent harmful Sanitary Sewer Overflows (SSOs)



How We Started

- Liquid Waste Management Ordinance approved by City Council in the Fall of 2018
 - Liquid Waste Permit required
 - Grease traps must be serviced at least every 90 days
 - Less than 25% grease to water ratio
- Inspections of regulated FSEs began immediately
 - One inspector employed full-time for FOG program
 - Added a second full-time inspector in 2020
- After first 3 years of inspections, it was determined not all traps needed annual inspection



Grease Trap Risk Calculator and Tier Selection

FOG Risk Assessment:

Question	Result Value	Point(s) Key
1. Does this facility have a history of pumping on a consistent frequency that is outlined and designated within our city ordinance, their permit, and/or their variance(s)? (Yes/No)		Yes (+1), No (+2)
2. What type of material is the grease trap? (Steel/Plastic/Concrete)		Steel (+3), Plastic (+1), Concrete (+1)
3. Where is the grease trap located? (indoor/outdoor)		Indoor (+3), Outdoor (+1)
4. What size is the grease trap? (< 500 gallons/ 500 < x > 1000 gallons/> or = to 1000 gallons)		< 500 gallons (+3), 500 < x > 1000 gallons (+2), > or = to 1000 gallons (+1)
5. What type of food service does this facility conduct? (Food Establishment Type I/Food Establishment Type II/Food Establishment Type III/Food Establishment Type IV/Grocery Store/School)		Food Establishment Type I (+1), Food Establishment Type II (+2), Food Establishment Type III (+3), Food Establishment Type IV (+1), Grocery Store (+1), School (+1)
6. Is this grease trap shared with other facilities? (Yes/No)		Yes (+3), No (+1)
7. Within the last two calendar years, has this facility received a notice of violation for failing to comply with our city's Liquid Waste Management Ordinance? (Yes/No)		Yes (+3), No (+1)
Total Value:	0	

Tier Criteria Based on Risk Assessment –

Tier 1: inspected annually (15 or more points on the risk assessment)

Tier 2: inspected bi-annually (less than 15, but more than 10 points on the risk assessment)

Tier 3: inspected every three years (less than or equal to 10 points on the risk assessment)



GIS Map

Environmental Quality

Open in Map Viewer Classic

EQ Edit
EQ_Edit

Layers

- Inspections
 - Auto-Related Facilities
 - BMP Locations
 - FOG Traps
 - Tier 1 FOG Traps
 - Tier 2 FOG Traps
 - Tier 3 FOG Traps
 - Not Tiered FOG Traps
 - Outfalls
 - Industrial Sites
 - Municipal Facilities
 - In-2-Care Stations
- Reference Layers
- Municipal Boundaries
- Current Aerial View
- Historical Aerials

[Add](#)

The map displays a large number of FOG trap locations in Frisco, Texas. The traps are categorized into different tiers, with Tier 1 traps shown in green, Tier 2 in red, and Tier 3 in purple. A red dashed line outlines the primary area of interest, which includes Frisco and parts of surrounding municipalities like The Colony, Allen, and Parker. The map also shows major transportation routes such as Highway 121, Highway 75, and Highway 289, as well as local landmarks like Little Elm, Hackberry, and Frisco. The interface includes a search bar for layers, a list of layer categories, and various map navigation tools like zoom, pan, and full screen.

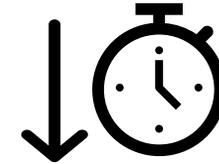
The Timeline

- Fall 2021: Risk assessment and tier approach proposed
- Spring 2022:
 - Tier system and risk assessment approved for implementation
 - Tiered grease traps based off previous inspections or gathered new inspection data if needed
 - GIS map created with a layer for each tier and editing capabilities added
- October 2022 – September 2023 (FY 22-23):
 - Tier and risk assessment inspection program begins
 - Completed goal of having all FSE grease traps tiered



Observed Results

- 58% reduction in inspection time spent (1288hrs → 542hrs annually)
- Reduction in fuel usage and vehicle emissions due to decreased site visits and enhanced inspection selection efficiency
- Benefit cost savings of \$32,000
- Increased educational outreach to businesses utilizing a FOG brochure and improved SSO response



Recognition

- National Association of City and County Health Officials (NACCHO)
 - Awarded as 2024 NACCHO Model Practice
 - Model Practice = program demonstrating exemplary and replicable qualities in response to a critical local public health need
 - Presented at National Conference in Detroit, MI





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Plano TX 75074
United States



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Plano TX 75074
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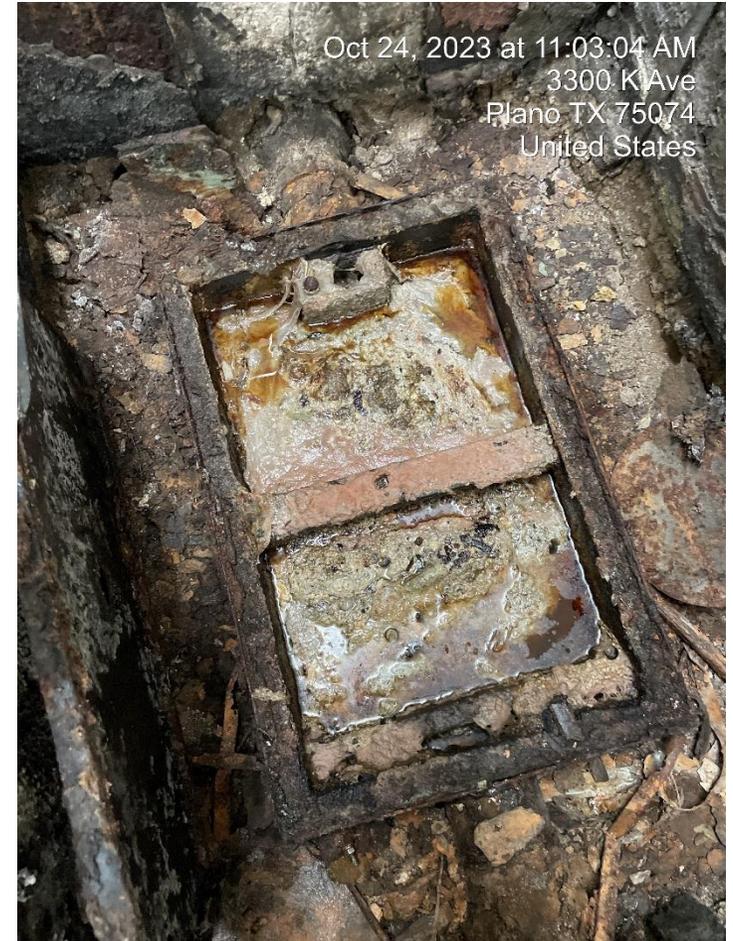
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Future Focus

- Measure compliance for improvement over first 3 years of new program approach
- Increased monitoring of at-risk grease traps that are degraded and in need of replacement
- Further emphasis on increasing FOG awareness for both the community and businesses through joint public education efforts





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Thank you

Keith White

Environmental Quality Supervisor

City of Plano Environmental Health and Sustainability

kwhite@plano.gov
