

GREASE INTERCEPTORS AND FOG

Cynthia Arias
Pollution Control Coordinator

City of Carrollton's Liquid Waste Ordinance

- ▣ Identify generators and haulers in the city
- ▣ Prevent the illegal disposal of non-hazardous liquid waste,
- ▣ Eliminate sanitary sewer blockages and overflows,
- ▣ Protect public health and the environment

WHO IS A GENERATOR?

A person who causes, creates, generates, or otherwise produces liquid waste

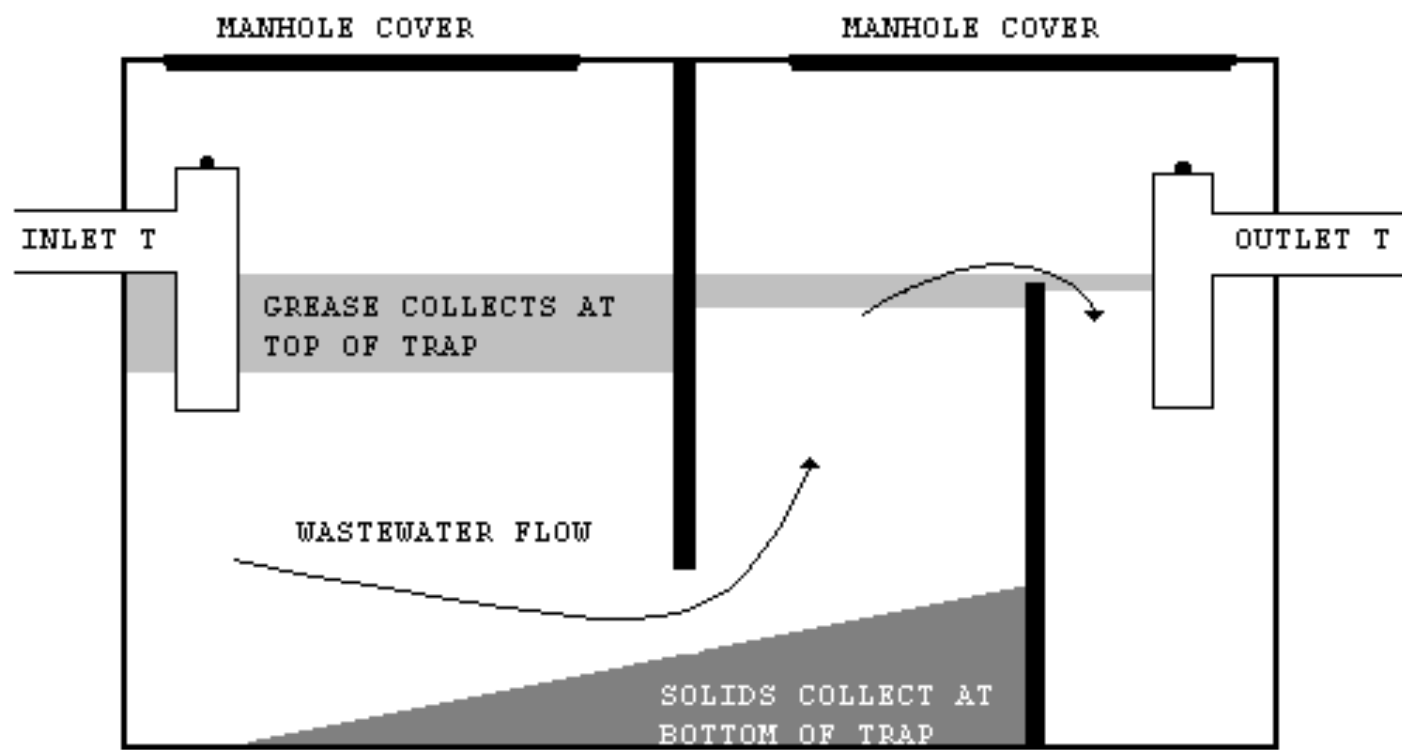
- Restaurants/Food Establishments
- Automotive Repair/Service Stations
 - Car Washes
 - Industry
- Apartments

What is liquid waste?

- ▣ Water-borne solids, liquids, gaseous substances derived from sources, such as, but not limited to grease traps, grit traps, chemical/portable toilets, septic tanks and/or washwater operations.

- ❑ Other Liquid Waste - Liquid , liquid-borne solids, gaseous substances and other residue and debris resulting from any municipal or industrial washwater, process water, contaminated storm water, contaminated ground water, liquid waste chemical, slurry and /or sludge which is not permitted to be discharged to the storm drain and may require pretreatment before discharge to the sanitary sewer





Your Requirements as a Liquid Waste Generator

- ❑ Must not allow liquid waste to accumulate
- ❑ Service traps at least quarterly or as required for proper function
- ❑ Use a City of Carrollton permitted liquid waste hauler - CAR ###
- ❑ Make sure hauler uses a City of Carrollton Trip Ticket
- ❑ Supervise the hauler during pickup

Your Requirements as a Liquid Waste Generator Cont...

- ❑ Entire contents of trap must be cleaned and walls scraped
- ❑ Retain your copy of trip ticket on the premises for at least three years
- ❑ Two copies – yellow at the end of the pumping and a green final copy





**CITY OF CARROLLTON, TEXAS
LIQUID WASTE TRANSPORTATION TRIP TICKET**

GENERATOR INFORMATION

(MUST BE LEGIBLY COMPLETED BY GENERATOR)

BUSINESS NAME: _____

ADDRESS: _____ TELEPHONE: _____

WASTE REMOVED FROM: GREASE TRAP GRIT/SAND TRAP
 SEPTIC TANK CHEMICAL/PORTABLE TOILET
 WASHWATER OTHER LIQUID WASTE: _____

WASTE TANK CAPACITY: _____ GALLONS
REMOVAL OF WASTE (WAS WAS NOT) OBSERVED BY THE GENERATOR.

I CERTIFY THAT THE WASTE MATERIAL REMOVED FROM THE ABOVE PREMISES CONTAINS NO HAZARDOUS MATERIALS, AND THAT THE INFORMATION PROVIDED IS CORRECT. I AM AWARE THAT FALSIFICATION OF THIS TRIP TICKET MAY RESULT IN CRIMINAL PROSECUTION.

GENERATOR/REPRESENTATIVE NAME: (PRINT) _____

(DATE AND TIME SERVICED) (GENERATOR/REPRESENTATIVE SIGNATURE)

TRANSPORTER INFORMATION

(MUST BE LEGIBLY COMPLETED BY TRANSPORTER)

BUSINESS NAME: _____

ADDRESS: _____

TNRCC REGISTRATION NO. _____ VEHICLE PERMIT NO. _____

GALLONS REMOVED: _____ VEHICLE NO. _____ PERMIT EXPIRATION DATE _____

I CERTIFY THAT THE INFORMATION PROVIDED ABOVE IS CORRECT, AND THAT I HAVE REMOVED FROM THIS LOCATION ONLY THE WASTE CERTIFIED FOR REMOVAL BY THE GENERATOR. I AM AWARE THAT FALSIFICATION OF THIS TRIP TICKET MAY RESULT IN REVOCATION OF MY LIQUID WASTE TRANSPORT PERMIT, AND/OR CRIMINAL PROSECUTION.

DRIVER NAME: (PRINT) _____

(DATE AND TIME WASTE TRANSPORTED) (DRIVER SIGNATURE)

DISPOSAL INFORMATION

(MUST BE LEGIBLY COMPLETED BY DISPOSER)

BUSINESS NAME: _____

ADDRESS: _____ TELEPHONE: _____

TNRCC PERMIT NO. _____

I CERTIFY THAT I HAVE BEEN AUTHORIZED BY THE TNRCC TO ACCEPT THE ABOVE SPECIFIED WASTE AND THAT I HAVE DISPOSED OF THE WASTE IN ACCORDANCE WITH THE REQUIREMENTS IN THAT AUTHORIZATION.

SITE OPERATOR NAME: (PRINT) _____

(DATE AND TIME WASTE RECEIVED) (SITE OPERATOR SIGNATURE)



Why is this important?

Myths and Facts about FOG

- ▣ What is FOG? Fats (solids) Oils (liquid) Grease(viscous, but not capable of flow)
- ▣ Greatest factor for SSOs
- ▣ SSOs are a constant, clear and present danger of municipal drinking supplies

Nature of FOG

- Fact: FOG typically dissolves in water through hydrolysis
 - The speed of breakdown increases in direct proportion with concentration and contact with detergents and sanitizers
- Myth: FOG separates more efficiently in cool, non turbulent water
- Fact and Myth: FOG is recyclable
 - Yellow grease - fryer grease
 - Brown grease - grease trap waste

Operation and Maintenance

▣ Separation

- Efficiency is affected by globule size, temperature, and FOG viscosity
- Reduction of globule size, temperatures above 150F, concentration of detergents and mechanical emulsification from long runs affect ascension rates
- Adequate separation is considered 90% or greater

Operation and Maintenance

▣ Retention

- Grease capacity an interceptor can store before materially diminishing separation efficiency
 - Mechanical - certified to meet a standard of 90% or greater separation efficiency and a retention capacity of 2 pounds FOG for each gallon per minute rated inflow velocity
 - Gravity - no specific separation efficiency or retention capacity
- Cleaning - 25% rule
- pH lowers with the presence of a large portion of free fatty acids

▣ Disposal

FREQUENT AND REGULAR
PUMPING OF A TRAP IS
OUR BEST DEFENSE IN
KEEPING FOG AND OTHER
LIQUID WASTE OUT OF
THE CITY'S SEWER LINE.

Questions?

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<http://cityofcarrollton.com/index.aspx?page=242>