

080371

DISTRICT ALL

VILLAGE OF LOMBARD  
REQUEST FOR BOARD OF TRUSTEES ACTION  
For Inclusion on Board Agenda

Resolution or Ordinance (Blue)  Waiver of First Requested  
Recommendations of Boards, Commissions & Committees (Green)  
Other Business (Pink)

TO: PRESIDENT AND BOARD OF TRUSTEES  
FROM: David A. Huliseberg, Village Manager  
DATE: June 11, 2008  
Agenda Date: June 19, 2008  
TITLE: An Ordinance Amending Title 5, Chapter 50, Section 50.042 of the Village of Lombard Code in Regard to the Village's Sanitary Sewer System and Traps  
SUBMITTED BY: Angela M. Podesta, Utilities Superintendent *AMP*

BACKGROUND/POLICY IMPLICATIONS:

See Attached Memo.

FISCAL IMPACT/FUNDING SOURCE:

None

Review (as necessary):  
Village Attorney X  
Finance Director X  
Village Manager X

Date \_\_\_\_\_  
Date \_\_\_\_\_  
Date 6/13/08

All materials must be submitted to and approved by the Village Manager's Office by 12:00 noon, Wednesday, prior to the Agenda Distribution.





MEMORANDUM

**To:** David A. Huliseberg, Village Manager

**From:** Angela M. Podesta, Utilities Superintendent *AMP*

**Through:** David P. Gorman, Acting Director of Public Works *DPG*

**Date:** June 11, 2008

**Subject:** Grease Control Ordinance Revision

The purpose of revising the grease control ordinance is to address a maintenance problem with the build up of grease in the sanitary sewer collection system. The intent is get property owners to clean and maintain their existing grease traps.

The sanitary sewers have become increasingly clogged with fats, oils and grease (FOG). Public Works Underground Utilities crews weekly chemically treat and/or check 25 manholes for grease build up. Ten of these manholes are located in Yorktown. If these manholes are not treated, they become so clogged that the sewer mains back up into basements or spill onto the ground. The Water Treatment & Wastewater Pumping Division chemically treats the sewer mains leading to lift stations and clean the lift station wet wells with a high pressure hose monthly at Yorktown, Highlands of Lombard and Providence Subdivision.

In fiscal year 2008, Public Works spent \$16,800 on chemicals and over 700 man-hours to treat grease in sewers that can be reduced through proper maintenance and cleaning of grease traps. 11% of the sanitary sewer overflows reported to the IBPA during the past 3 years have been attributed to grease build up.

The current Section 50.042 "Traps Required" is inadequate for enforcing maintenance procedures. Staff requests that the Ordinance be revised to give specific direction on the maintenance and reporting requirements of grease traps such as minimum frequency of cleaning, frequency of cleaning based upon amount of debris in the traps, type of information reported and ability to issue a fine for nonconformance. This Ordinance is similar to ones adopted by Flag Creek Water Reclamation District (Hinsdale), Fox Metro Water Reclamation District (Aurora) and DuPage County Public Works.

The Village of Lombard operates and maintains the sewer collection system. The Glenbard Wastewater Authority is responsible for the sewerage once it enters the North Regional Interceptor and the treatment plants. The DuPage County Health Department reviews the design of the grease traps initially but does not inspect the traps or maintenance records as part of their regular inspections. Therefore, this program will not be duplicating another agency's efforts nor doing something someone else should be doing.

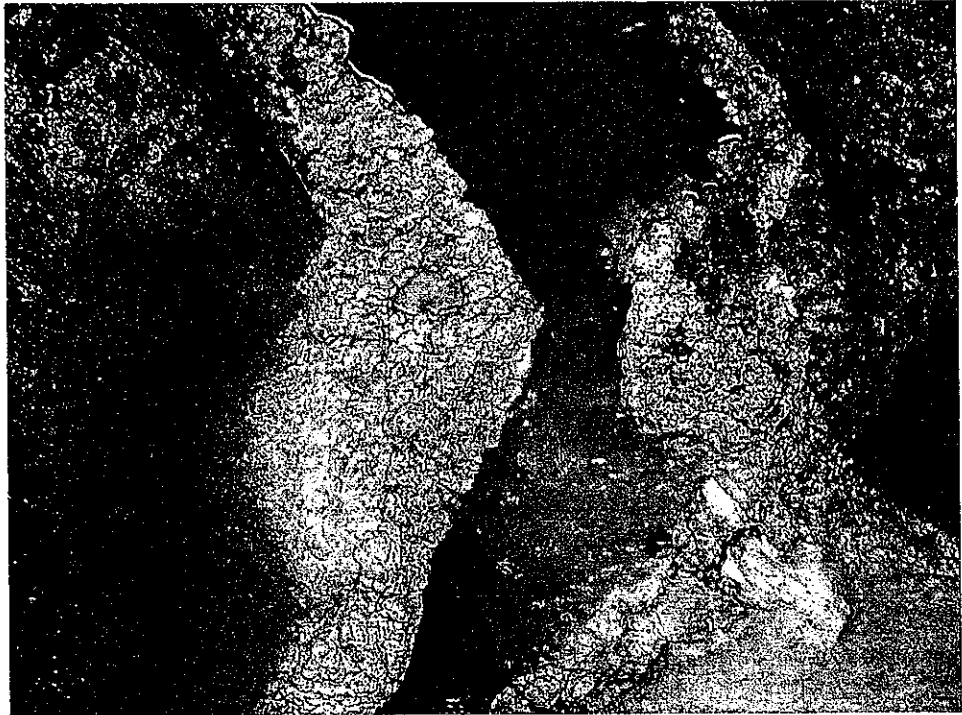
This program will be administered by the Utilities Superintendent and the contractor that has been retained to administer the Cross Connection Control program. The funds for this program are budgeted in the Water & Sewer Operations and Maintenance Fund Sewer Collection cost center. The Ordinance and supporting documents have been reviewed by the Public Works Committee. The Public Works Committee voted recommend to the Board of Trustees to adopt the proposed Grease Control Ordinance. Please present the Grease Control Ordinance for approval by the Board of Trustees at their June 19, 2008 meeting.

AMP

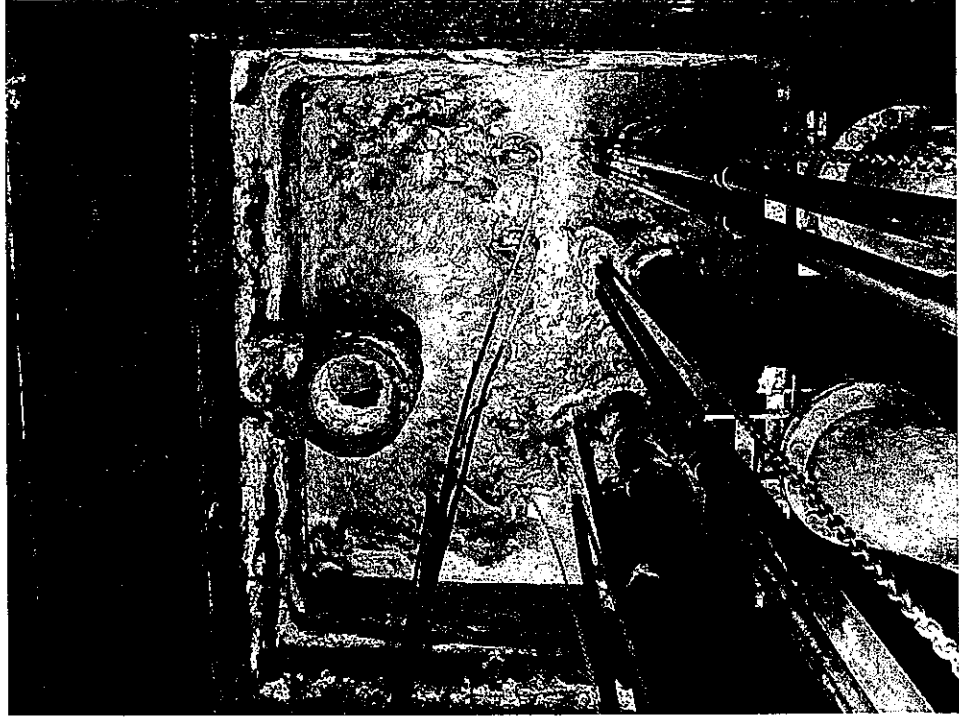
Bio Bag helps breakdown the grease



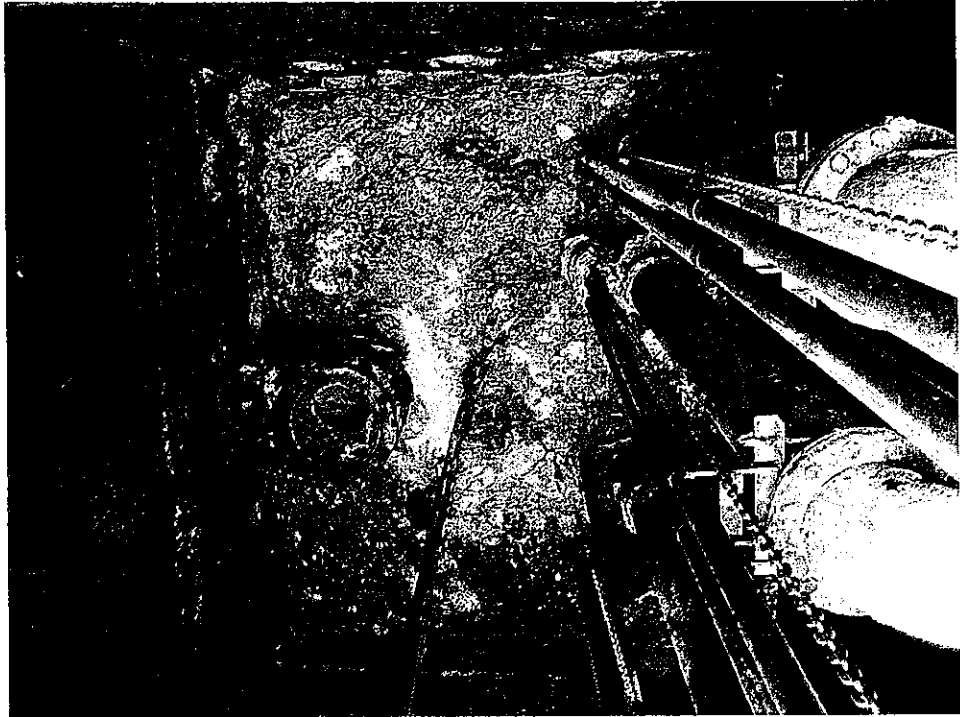
Grease build-up that is beginning to restrict flow



Yorktown Lift Station after cleaning



Grease build-up at Yorktown Lift Station



**Village of Lombard Fats, Oils, Grease (FOG)**

**Grease Trap/Interceptor Quarterly Maintenance Report**

Reports Due April 15th, July 15th, October 15th, January 15th for preceding 3 months

*Keep Report and Manifests on site for 24 months from Date of report*

Name of Business: \_\_\_\_\_ Date of Report: \_\_\_\_\_

Address: \_\_\_\_\_

Name of Contact Person: \_\_\_\_\_ Phone Number: \_\_\_\_\_

If pumping was performed by an outside contractor, attach Hauler's Manifest and fax this report with manifest to Aqua Backflow at 847-888-9384. No additional information required. Questions call Aqua Backflow at 847-742-2296 or Lombard Public Works at 630-620-5740.

**GREASE TRAPS ONLY:** If maintenance was performed in-house, complete the following:

Date of Maintenance: \_\_\_\_\_  
Name of Employee Performing Maintenance: \_\_\_\_\_

**Type of Maintenance Performed: (circle one)**

Remove Floating Material \_\_\_\_\_  
Complete Removal of Floating Material & Bottom Solids \_\_\_\_\_

**Quantity of Material Removed:** \_\_\_\_\_ Gallons

**Size of Grease Trap:** \_\_\_\_\_ Gallons

**Repairs Performed:** \_\_\_\_\_

Name of Grease Disposal Company: \_\_\_\_\_

Address: \_\_\_\_\_

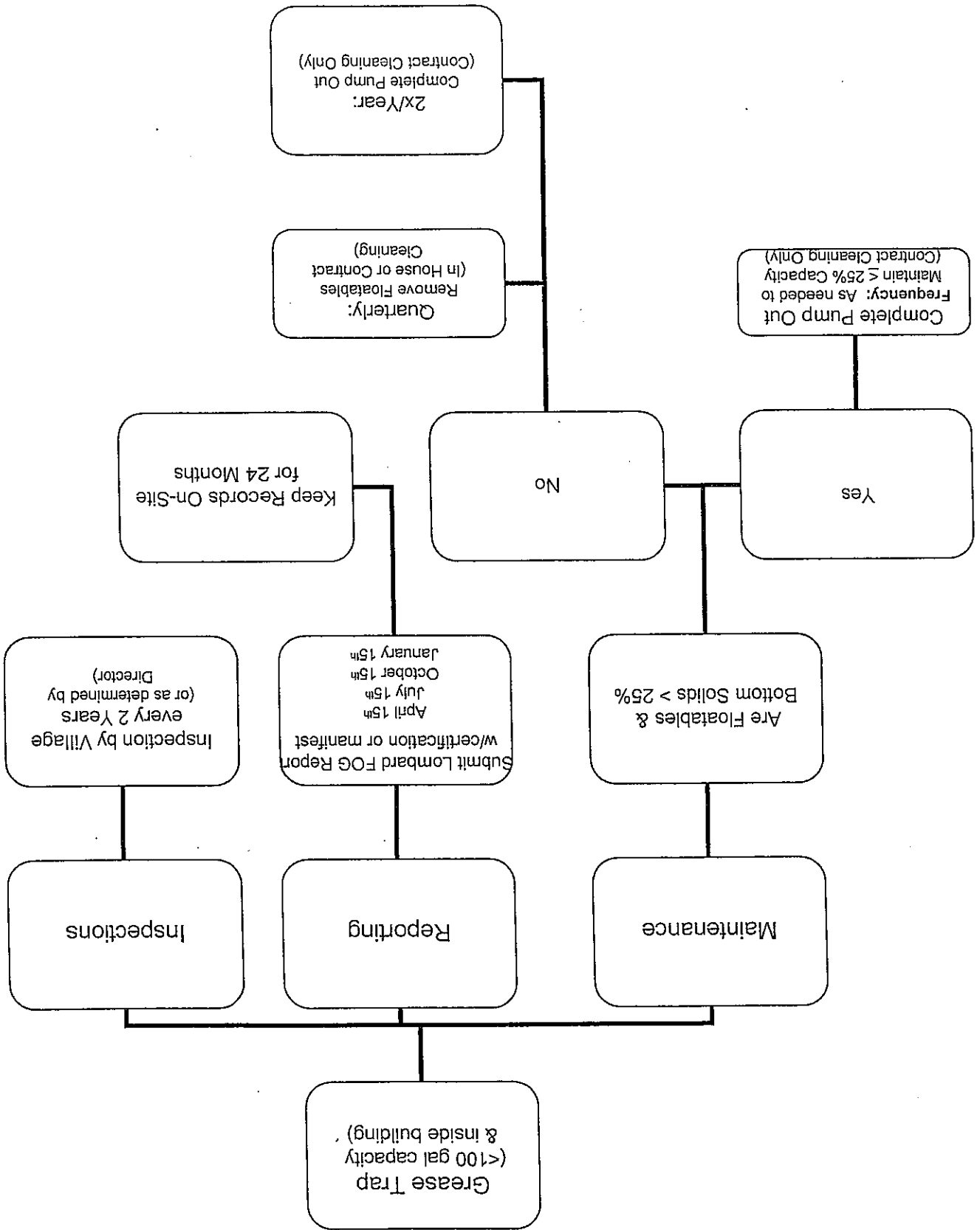
Phone Number: \_\_\_\_\_

I certify that the quantity of floating and bottom solids is less than 25% of total capacity of the grease trap, the grease trap is in good working order and the information submitted is accurate. Penalties for violation of any section of Title 5 Chapter 50, Section 50.042 of the Lombard Village Code are up to \$750 per day and recovery of costs incurred by the Village.

Signature \_\_\_\_\_

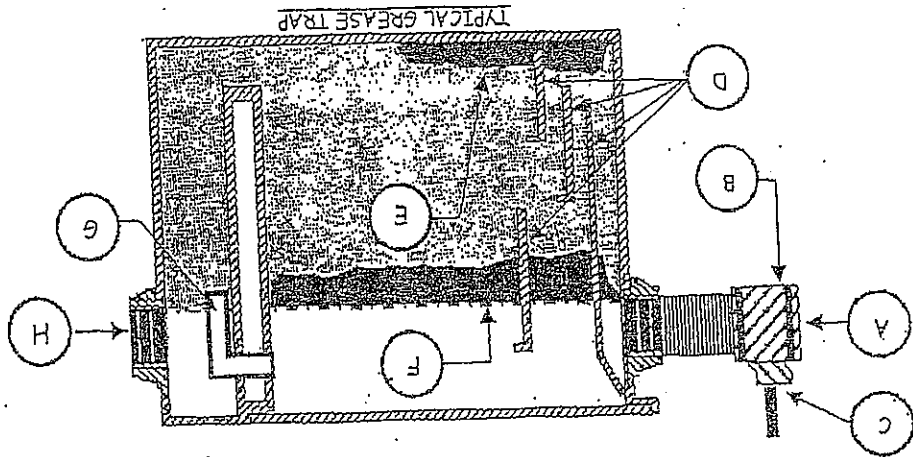
Printed Name \_\_\_\_\_

# Lombard's Fats, Oils, Grease (FOG) Program



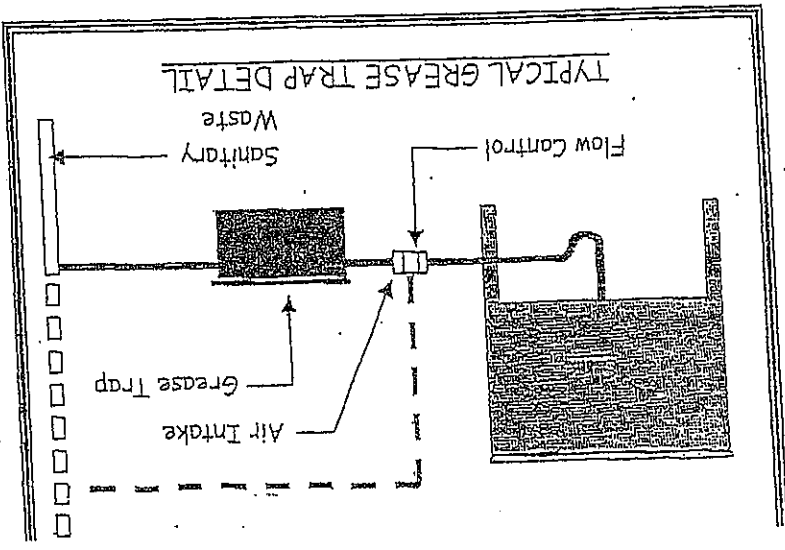


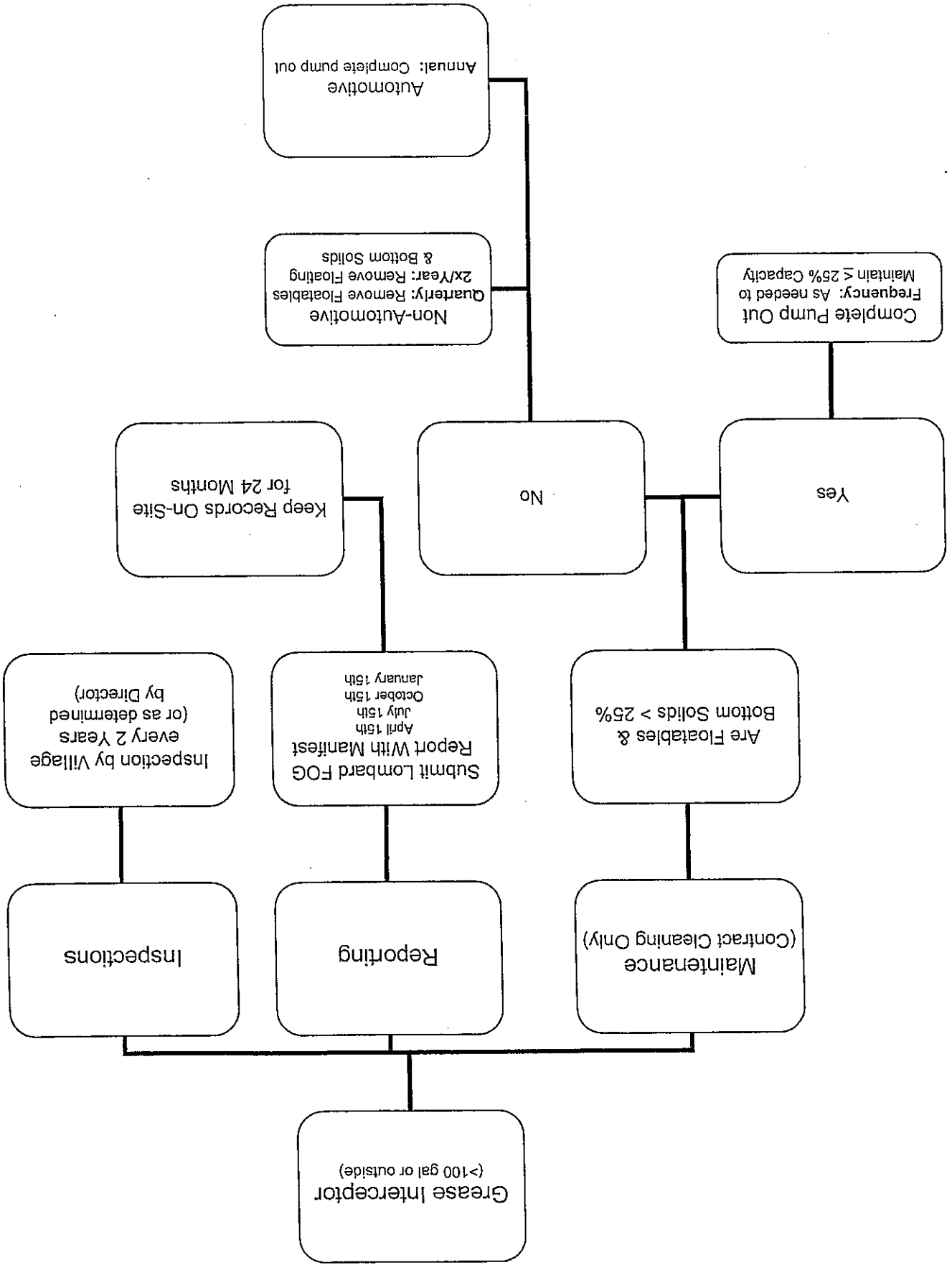
# UNDER-THE-COUNTER



HOW A GREASE TRAP WORKS	
A	Flow from sink enters the grease trap.
B	An approved flow control device is installed to restrict the flow to the grease trap to the rated capacity of the trap.
C	Air intake allows air into the top of the grease trap to prevent siphonage and backpressure.
D	Baffles help to retain grease toward the top of the grease trap because grease and oil will float and will not generally go under the baffle.
E	Solids in the wastewater that do not float will be deposited on the bottom of the trap and must be removed during routine cleaning of the trap.
F	Oil and grease floating on the water and accumulating behind the baffles. The oil and grease must be removed during routine trap cleaning.
G	Air relief is needed to equalize pressure on both sides of baffle and prevent siphonage.
H	Water exits the grease trap through the outlet pipe and continues to the sanitary sewer system.

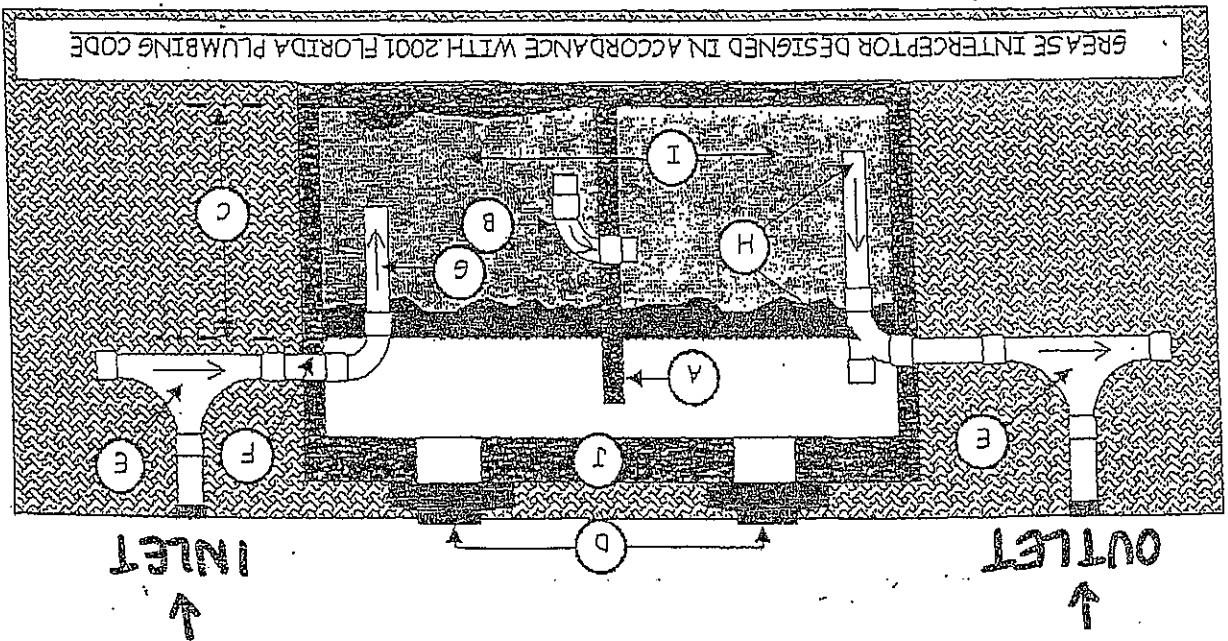
## INSIDE UNDER-THE-COUNTER





# 2001 SPC EXTERIOR GREASE TRAP/INTERCEPTOR

A	Minimum one baffle that shall extend the full width of the interceptor, extending from the bottom to within 6" of the top.
B	Baffle is required to have minimum 4" pipe size inverted long radius elbow installed on the inlet compartment side with the fitting placed 12" above the bottom of the interceptor.
C	Minimum liquid depth of 42" in each compartment is required.
D	Each compartment is required to be accessed by a minimum 18" diameter or square opening.
E	Two-way cleanout is required on the inlet and outlet side of the interceptor.
F	The inlet piping is required to enter the interceptor a minimum of 2 1/2" above the invert of the outlet piping.
G	The inlet piping is required to turn down and terminate 24" below the water level.
H	The outlet piping is required to start 8" above the bottom of the interceptor and extend vertically to a tee. The tee is required to be minimum 4" pipe size with the run in the vertical orientation.
I	Minimum grease interceptor size is 750 gallons.
J	Grease interceptors are required to be engineered to withstand anticipated loads such as vehicular traffic.





- (2) **Director.** The Village's Director of Public Works, or his/her designated agent or representative.
  - (1) **Automobile Service Facility.** Any facility which provides automobile repair or automobile service, as defined in Section 155.802 of this Code, which has floor or other drains that are required to be equipped with a FOG trap or a FOG recovery system pursuant to the Illinois Plumbing Code.
- (B) **Definitions.** The following words, terms and phrases shall have the following meanings for purposes of this Section:

- (A) **Purpose.** The purpose of this Section is to establish certain minimum reasonable rules and regulations for any automotive service facility or food processing food sales, or food service facility or user connected to, or applying to connect to, the Village's sanitary sewer system regarding the collection and disposal of fats, oils, greases, sand or petroleum products in wastewater, not otherwise required to obtain and hold an Industrial Wastewater Discharge Permit from the U.S. Environmental Protection Agency and/or the Illinois Environmental Protection Agency. This Section also establishes certain minimum reporting requirements for waste haulers in the disposal of fats, oils, greases, sand and petroleum product wastes.

**“§50.042 FAT, OIL, GREASE, SAND AND PETROLEUM PRODUCT TRAPS**

Code is amended to read in its entirety as follows:

**SECTION 1:** That Title 5, Chapter 50, Section 50.042 of the Lombard Village

Lombard, DuPage County, Illinois, as follows:

**BE IT ORDAINED** by the President and Board of Trustees of the Village of

**AN ORDINANCE AMENDING TITLE 5, CHAPTER 50, SECTION 50.042 OF THE VILLAGE OF LOMBARD VILLAGE CODE IN REGARD TO THE VILLAGE'S SANITARY SEWER SYSTEM AND TRAPS**

ORDINANCE NO. \_\_\_\_\_

(3) **FOG.** Fats, oils, greases, sand, starch, proteins, waxes, free fatty acids, calcium and magnesium soaps, mineral oils, motor oil, gasoline, and certain other materials from animal, vegetable and petroleum origins. FOG may originate from discharges from scullery sinks, pot and pan sinks, dishwashing machines, soup kettles and floor drains located in areas where the aforementioned materials may exist.

(4) **FOG Producing Facility.** A food processing, food sales or food service facility, or automotive service facility, as herein defined.

(5) **Food.** Any raw, cooked, processed edible substance, ice, beverage or ingredient used or intended for use, or for sale, barter or exchange, in whole or part for human consumption.

(6) **Food Processing Facility.** A commercial facility in which food is manufactured or packaged for human consumption. The term does not include a food service facility, retail food store or commissary.

(7) **Food Sales Facility.** A retail and wholesale grocery store(s); retail seafood store(s); food processing plants(s); bakeries; confectionaries; fruit, nuts and vegetables store(s); and places of business; and, similar establishments, mobile or permanent, engaged in the sale of food primarily for consumption off premises.

(8) **Food Service Facility.** Any facility for the preparation and serving of meals, lunches, short orders, sandwiches, frozen desserts or other edible products. The term includes: restaurants, coffee shops, cafeterias, short order cafes, luncheonettes, taverns, lunchrooms, places which manufacture retail sandwiches, soda fountains, institutional cafeterias, catering establishments, food vending and operations connected therewith, and similar facilities by whatever named called or by whomever operated.

(9) **FOG Quarterly Maintenance Report.** A document submitted to the Village pursuant to subsection (D) (4) below, along with the Manifest when applicable, to certify that maintenance was performed by the business in accordance with the requirements of subsection (D) below.

(10) **FOG Recovery System.** A system of interceptors, separators, traps (including FOG traps) or FOG recovery,

devices, which prevents free floating FOG from entering the sewage system by recovering and removing the FOG from the wastewater. Such systems may be inside a building (typically less than 100 gallon capacity) or outside a building (typically 1,000 gallon or greater capacity).

(11) **FOG Trap.** An interceptor, separator or recovery vehicle that prevents free-floating FOG from entering the wastewater disposal system. It also may be a passive FOG interceptor whose rated flow exceeds 50 gallons per minute or minimum storage capacity of 1,000 gallons or more and which is located outside the building.

(12) **Hauler.** A waste disposal or rendering business or firm, licensed by the Illinois Environmental Protection Agency, that hauls and disposes of FOG as described in this Section.

(13) **Manifest.** A log or document record of the hauler name, address and State license/permit number; and, the volume, date of removal and disposal destination of pumped materials or wastes from a FOG trap, FOG recovery system, or other interceptor device. (See, 415 ILCS 5/22.30(d) and (e)).

(14) **Pump and Return Method.** The method of recanting or discharging removed waste or wastewater back into the FOG recovery system from which waste was removed or to any other FOG recovery system or sewer connection.

(15) **Twenty-Five Percent Rule (25% Rule).** All FOG traps and/or FOG recovery systems shall be cleaned based on the 25% Rule.

**FOR EXAMPLE:** If the total depth (TD) of a FOG trap or FOG recovery system is 40 inches, the maximum allowable depth (d) of floatable and settled FOG equals 40 inches multiplied by 0.25 or  $d=TD \times 0.25 = 10$  inches. Therefore, the maximum allowable depth of floatable and settled FOG in the FOG trap or FOG recovery system should not exceed ten (10) inches.

(16) **User.** Any FOG producing facility, its owner(s) or operator(s), or their agent(s), that contributes to the Village's wastewater collection system.

(c) **System Required.** A FOG producing facility shall install a FOG recovery system as required by, and in accordance with, the provisions of the Illinois Plumbing Code and this Code.

(d) **System Maintenance.**

(1) **General.** All FOG recovery systems, both existing and new, shall be maintained in a safe and sanitary condition, and in good working order, in compliance with all applicable laws, rules and regulations.

(2) **Maintenance Responsibility.** The owner(s), and any designated agents shall be responsible for the maintenance of the FOG recovery system for a FOG producing facility at all times. All costs and expenses relating thereto shall be the responsibility of the owner(s).

(3) **Maintenance Requirements.**

(a) All users shall maintain any FOG recovery system so that the discharges therefrom are in compliance with all applicable laws, rules and regulations.

(b) All non-automobile service facility FOG traps, and all other non-automobile service facility FOG recovery systems, shall be completely pumped out semi-annually or when the contents thereof exceeds the 25% Rule. All automobile service facility FOG traps, and all other automobile service facility FOG recovery systems, shall be completely pumped out annually or when the contents thereof exceeds the 25% Rule. Semi-annual maintenance, annual maintenance and maintenance due to exceeding the 25% Rule shall include the complete recovery of all contents, including floating materials, wastewater and bottom sludges and solids. The frequency of maintenance may be increased to comply with the applicable daily maximum discharge limit(s), the manufacturer's recommendation or the 25% Rule. The frequency shall be as often as necessary to prevent overflows of FOG from entering the Village's wastewater collection system.



(c) The Pump-and-Return Method of decanting or discharging of removed waste or wastewater back into the FOG recovery system is prohibited.

(d) Removal of floating material from a FOG trap may be performed by the owner of the FOG producing facility, provided said floating material is properly disposed of in accordance with all applicable laws. Any removal and hauling of FOG as a result of the complete pumping of a FOG trap and all other FOG recovery systems, shall be performed by a hauler licensed by the State of Illinois.

(e) If any FOG recovery system discharge wastes fail to meet the applicable daily maximum limit(s), the Director is authorized to require that the user repair, replace or upgrade its FOG recovery system, at the sole expense of the user.

(f) No user may place an additive of any type into the FOG trap or FOG recovery system without the prior written approval of the Director.

(4) **Maintenance Records.** Each user, at each FOG producing facility, shall maintain an accurate and complete record of all cleaning(s) or maintenance of its FOG producing facility's FOG recovery system, and shall file copies of same with the Village's Public Works Department on a quarterly basis (April 15<sup>th</sup>, July 15<sup>th</sup>, October 15<sup>th</sup> and January 15<sup>th</sup>) with said maintenance records to cover the three (3) full calendar months preceding the filing date. The following records shall be kept on-site at the FOG producing facility for a minimum two (2) year period:

(a) **Haulers.** The hauler shall provide the FOG producing facility manager, at the time of service, a manifest conforming to all State statutes and regulations (see, 415 ILCS 5/22.30(e)), and the provisions of this Code.

(b) **Manifest(s).** The removal of FOG recovery system contents shall be recorded on a manifest that identifies the pumping, hauling and disposing of the wastes, and whether collected from an interior or an exterior FOG recovery system.

(c) **Manifest Information.** Each manifest shall contain the following information and such other information as may be required by State statute:

- (i) User information, including name, address, the volume pumped from each FOG recovery system, and date and time of the pumping;
- (ii) Hauler information, including company name, address, State license/permit number and disposal/receiving facility location information; and
- (iii) Receiving facility information, including the facility name and address, date and time of receiving, and EPD number.

(iv) A certification that the FOG trap or FOG recovery system was in working order.

(v) A certification that the maintenance requirements, as set forth in subsection (D)(3) above, are being complied with by the user relative to the FOG trap or FOG recovery system.

(d) **Manifest/Maintenance Log.** The owner(s) of each FOG producing facility shall maintain, and keep available on the premises, a continuous log of manifests, FOG quarterly maintenance reports (and other similar record(s)) regarding each cleaning or maintenance of the FOG recovery system for the previous twenty-four (24) months. The log shall be kept on the FOG producing facility premises in a location where the log is available for inspection or review by the Director, or his/her designated agent(s) or representative(s).

(5) **Repairs.** Any repair that is required in regard to a FOG trap or FOG recovery system shall be made by the user within thirty (30) days of the user receiving notice of the need for a repair from either the hauler or the Director.

**(E) Inspections.**

(1) The Director or his/her designated agent(s) or representative(s), shall make or conduct an inspection of each FOG producing facility as the Director may deem necessary, to evaluate and enforce compliance with the provisions of this Section.

(2) The Director, or his/her authorized agent(s) or representative(s), shall have the authority to enter any property at any reasonable time to inspect for sanitation purposes and compliance with the provisions of this Section and any other applicable provisions of this Code relating to the wastewater system. The Director may also make any necessary test, measurement or sampling to determine compliance with the requirements of this Section and any other applicable provisions of this Code relating to the wastewater system.

(3) The user shall make sure that the FOG trap and/or FOG recovery system are accessible for inspection at all times, and shall make sure that no obstructions block access to any FOG trap or FOG recovery system.

(4) The user shall, upon request by the Director or his/her authorized agent(s) or representative(s), open the access to the FOG trap or FOG recovery system for inspection, including, but not limited to, unbolting and removing covers and/or manholes.

(5) A user charged with a Notice of Violation (an "NOV"), issued by the Director, shall be re-inspected at any time within thirty (30) days of the date of the issuance of the NOV. Subsequent re-inspection(s) may occur at any time for as long as the user is non-compliant under the original NOV. The user shall be responsible for payment of a re-inspection fee for all re-inspections in the amount of one hundred seventy-five and no/100 dollars (\$175.00), which shall be added to the sanitary sewer bill of the user.

(6) When a sewer overflow or blockage occurs at or downstream of a FOG producing facility, a demand inspection may be made or conducted by the Director, or his/her designated agent(s) or representative(s), if the user of the FOG producing facility is found to be in violation of any provision of this Section, or any other applicable provision of

this Code relating to the wastewater system, and that violation(s) is believed to have caused or resulted in the sewer overflow or blockage, the user shall be responsible for the payment of the demand inspection fee in the amount of one hundred seventy-five and no/100 dollars (\$175.00), as well as the labor, equipment and material costs to correct the sewer overflow or blockage, which amounts shall be added to the sanitary sewer bill of the user.

**(F) Notice of Violation.**

**(1)** Whenever the Director determines that there are reasonable grounds to believe that there is, or has been, a violation of this Section, the Director shall give notice of the alleged violation(s) to the user and/or the person in control of the FOG trap or FOG recovery system, as herein provided. Such notice shall:

**(a)** Be in writing;

**(b)** Include a statement of the reason(s) for issuance of the notice;

**(c)** Allow a reasonable time for the performance of any act it requires;

**(d)** Be served upon the user or operator of the FOG producing facility, as the case may require; provided that such notice shall be deemed to have been properly served upon such user or operator when a copy thereof has been sent by first class mail, postage prepaid, to his/her last known address as furnished to the Village, or personally delivered to the manager or other person in charge of the FOG producing facility; and

**(e)** Contain an outline of remedial action which is required to affect compliance.

**(2)** Whenever an emergency exists which requires immediate action to protect the public health, safety or welfare, or to protect public or private property from damage or destruction, the Director may, without any administrative notice or procedure, seek an injunction to require that such action be taken as may be deemed necessary to meet the emergency.

**(g) Enforcement - Penalties/Remedies.**

(1) Any person or user who violates any provision of this Section, shall be fined not less than fifty and no/100 dollars (\$50.00) nor more than seven hundred fifty and no/100 dollars (\$750.00) for each violation, with each day that a violation has existed or continues to exist constituting a separate offense.

(2) In addition to (1) above, any sewer or manhole overflow, or sewer back-up, resulting from a violation(s) of any provision of this Section, or an inadequately operating FOG recovery system, or lack of an approved FOG recovery system, shall result in the imposition of a charge to the responsible owner(s) or user(s) equal to the costs incurred by the Village in cleaning the blockage out of the immediately adjacent Village wastewater collection system. Imposition of a charge under this subsection (2) shall not preclude other enforcement action(s). In addition, the responsible owner(s) or user(s) shall be responsible for payment of any fine levied by the Illinois Environmental Protection Agency against the Village as a result of any overflow or blockage in the Village's wastewater collection system, or NPDES permit discharge violations attributable to the owner(s) or user(s) violation of any provision of this Section, or an inadequately operating FOG recovery system. Any such charges as referenced in this subsection (2) shall be added to the sewer bill of the user.

(3) The Director may also take any other available legal action necessary to prevent or to remedy any violation, including, but not limited to, appropriate equitable or injunctive relief or discontinuation of wastewater treatment service to the FOG producing facility."

**SECTION 2:** That this Ordinance shall be in full force and effect from and after

its passage, approval and publication in pamphlet form as provided by law.

Passed on first reading this \_\_\_ day of \_\_\_\_\_, 2008.

First reading waived by action of the Board of Trustees this \_\_\_ day of \_\_\_\_\_, 2008.

Passed on second reading this \_\_\_\_\_ day of \_\_\_\_\_, 2008, pursuant to a roll

call vote as follows:

AYES: \_\_\_\_\_

NAYS: \_\_\_\_\_

ABSENT: \_\_\_\_\_

**APPROVED** by me this \_\_\_\_\_ day of \_\_\_\_\_, 2008.

William J. Mueller, Village President

ATTEST:

Brigitte O'Brien, Village Clerk

Published by me in pamphlet form this \_\_\_\_\_ day of \_\_\_\_\_, 2008.

Brigitte O'Brien, Village Clerk