

SARATOGA COUNTY SEWER DISTRICT #1

FATS, OILS AND GREASE (FOG) CONTROL PLAN SPECIFICATIONS

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TABLE OF CONTENTS

<u>Section</u>	<u>Description</u>	<u>Page</u>
1	Introduction	3
2	Sewer District Control	4
3	Registration and Insurance	4
4	Application and Review	5
5	Prohibited Discharges	6
6	General Rules and Regulations	7
7	Record Keeping	9
8	Non-Compliance	10
9	Enforcement	11

SECTION 1 – INTRODUCTION

Food Service Establishments (FSE's) generate a significant source of Fats, Oils, and Grease (FOG) throughout the Publicly Owned Treatment Works (POTW), which is Saratoga County Sewer District #1 (SCSD #1). If improperly managed, FOG will cause major environmental problems. FOG from FSE's without proper FOG removal device(s), and/or unutilized Best Management Practices (BMP's) will enter the wastewater system in a liquid form and solidify further down the line creating sewer back-ups, overflows and other hazardous situations, subsequently introducing potential health hazards, as raw sewage may carry harmful bacteria, viruses, and pathogens. FOG will build up on the inside of sewer pipes and restrict flow. The clean-up from these overflows are difficult, unsightly, hazardous and costly. In an effort to resolve this problem, SCSD #1 created this Control Plan referencing the Onsite Wastewater Treatment and Disposal Systems Design Manual by Environmental Protection Agency, New York State Plumbing Code (NYSPC), New York State Design Standards for Intermediate Sized Wastewater Treatment Systems by New York State Department of Environmental Conservation Division of Water, Uniform Plumbing Code (UPC), International Plumbing Code (IPC), Plumbing Engineering Design Handbook by American Society of Plumbing Engineers, and Plumbing and Drainage Institute (PDI).

SECTION 2 - SEWER DISTRICT CONTROL

1. Authority for Sewer District control is derived from the Local Law No. 1 of 2020. The Local Law regulates the use of all public and private sewers.
2. All installations and connections of FOG removal device(s) shall be subject to the review and approval of SCSD #1. Refer to current SCSD #1 Standard and Specifications, and detail sheets for additional requirements.
3. The following specifications apply to FOG generating facilities discharging to SCSD #1. Installations will be handled on a case-by-case basis.
4. SCSD #1 reserves the right, at our discretion, to change, modify, add or remove portions of these Control Plan Specifications at any time.

SECTION 3 - REGISTRATION AND INSURANCE

1. Any person working for a fee (contractor) to make connections to the sewer system shall notify SCSD #1.
2. All contractors shall be registered and have on file with SCSD #1 an Owner's and Contractor's protective liability insurance policy, in the name of the County of Saratoga c/o Saratoga County Sewer District No. 1, in the following amounts:
 - a. Bodily injury \$500,000 each person and \$1,000,000 each accident; and property damage \$100,000.
 - b. Saratoga County must be listed as additional insured and a minimum of 30 days notice of cancellation is to be given.
3. All expenses incidental to the connection to the sewer system shall be paid by the property owner. The owner (or their agent) shall indemnify SCSD #1 for any loss or damage that may result from his sewer connection work.

SECTION 4 - APPLICATION AND REVIEW

1. All FOG generating facility permit applicants connecting FOG removal device(s) to any public sewer shall be filed with SCSD #1.
 - a. A Grease Interceptor Permit Application shall be a prerequisite for the consideration of such a permit.
 - b. The Grease Interceptor Permit Application shall be supplemented by any plans, specifications or other information considered pertinent in the judgment of SCSD #1.
 - i. Application shall be required for:
 1. New FSE's
 2. Change of ownership
 3. Change to kitchen/prep areas, such as remodel or adding fixtures
 4. Reissuance of Food Service Establishment permit
 - c. All FOG removal device(s) shall be installed in a location that provides easy access at all times for inspection, sampling, sludge measurement, cleaning and proper maintenance.
 - i. Interceptors shall be located in the facility sewer service lateral between all fixtures which may introduce FOG into the collection system and the connection to the wastewater collection system.

SECTION 5 - PROHIBITED DISCHARGES

1. No downspout, roof leader, gutter, sump pump, drain or channel which may at any time carry storm water, surface water or ground water of any kind, nor any drain from any catch basin, lake, swamp, pond or privately owned swimming pool, nor any inlet for surface water, storm water or ground water of any kind shall be connected to SCSD #1 or any sewer tributary.
2. Any waters or wastes containing fates, wax, grease or oils, whether emulsified or not, in excess of 100 mg/l, or containing substances which may solidify or become viscous at temperatures between 32° and 150° F. (0° and 65° C.).
3. Chemicals, enzymes, live bacteria, grease cutter, emulsifiers, or additives that dissolve fats, oils, or greases, caustics, acids, solvents, or other emulsifying agents, and water in excess of 150°F or per manufacture specifications shall not be introduced into the FOG removal device(s) and/or plumbing.
4. Waters or wastes containing certain contaminants hazardous or injurious to the sewers or sewage treatment facilities are also prohibited. A complete description of such wastes is found in SCSD #1's Local Law No. 1 of 2020.
5. Wastewater from sanitary facilities (bathrooms, etc.) shall not discharge into the FOG removal device(s).
6. Food grinders, or food waste disposers.

SECTION 6 - GENERAL RULES AND REQUIREMENTS

1. No person shall uncover, make any connections with or opening into, use or disturb any public sewer or appurtenance thereof without first obtaining an approved permit from SCSD #1 for such connection, and if required, pay either a permit fee or connection charge.
2. All FOG generating facilities shall be subject to periodic review, evaluations, and inspection by SCSD #1 personnel at any time.
3. Any FOG generating facilities whose effluent is suspected or perceived by SCSD #1 to contain concentrations of greater than 100 mg/l of oil and or grease, and pH levels less than 5.0 or greater than 12 may be required to routinely sample their grease interceptor effluent, have it analyzed by a certified laboratory at the expense of the owner, and furnish a copy of the analysis to SCSD #1.
4. FOG removal device(s) shall be operated and maintained in accordance with the provisions of manufacturer's specifications, applicable codes, rules and regulations approved by SCSD #1.
5. All FOG generating facilities shall install, use, and maintain in proper working condition FOG removal device(s).
6. All FOG generating facility which is newly proposed, newly constructed, or any existing facility that intends to expand or renovate to include a facility generating FOG where such facility did not previously exist, shall be required to install an SCSD #1 approved FOG removal device(s).
7. All FOG removal device(s) shall be designed, tested, certified, sized, installed and maintained in accordance with manufacturer's specifications, applicable codes, rules and regulations approved by SCSD #1.
8. All newly installed FOG removal device(s) shall be certified and tested (per current IPC and UPC) High-Density Polyethylene (HDPE), Fiberglass-Reinforced Plastic (FRP), or approved equal.
 - a. Metal and Concrete tanks are prohibited.
 - b. All FOG removal device(s) shall be watertight, including but not limited to the access cover, frame, and risers.
 - c. Access covers installed outdoors shall be cast iron.
 - d. FOG removal device(s) shall be factory assembled, with any proposed baffles in place.

- e. When installing FOG removal device(s), flotation collars or other buoyancy control method as recommended by manufacturer shall be used to prevent flotation when the tank is pumped.
 - f. When designed and installed under driveway or parking lot, or where there is heavily saturated soil or an area subject to heavy loading, the interceptor shall be designed to withstand an H-20 wheel load.
9. FOG fixture(s) shall discharge to the FOG removal device(s) through the inlet pipe only, and in accordance with manufacturer's specifications, applicable codes, rules and regulations or approved by SCSD #1.
10. All fixtures in kitchen, food preparation area(s) and plumbing fixtures with potential to discharge FOG shall discharge to FOG removal device(s), these fixtures include, but are not limited to the following:
- a. Preparation sinks
 - b. Pre-rinse sinks
 - c. Pot sinks
 - d. Hand sinks
 - e. Three-compartment sinks
 - f. Mop sinks
 - g. Floor sinks
 - h. Drains from washdown ventilation hoods
 - i. Floor and trench drains
 - j. Wok stations
 - k. Pasta stations
 - l. Dishwashers
 - i. Dishwasher(s) shall be accompanied by a three-compartment sink and thermostatic mixing valve to lower discharge water temperature.
11. Venting of FOG removal device(s) shall be in accordance with requirements of the manufacturer, current NYSPC, IPC and UPC.
12. When FSE's permanently close, the FOG removal device(s) shall be properly pumped out, and left dry and empty. If use of building changes the FOG removal device shall be properly abandoned.

SECTION 7 - RECORD KEEPING

1. Maintenance contracts and or records of grease removal frequencies for FOG generating facilities will be required at the discretion of SCSD #1 to be submitted periodically to ensure routine and adequate system maintenance.
 - a. The owner(s) shall be responsible for the proper removal and disposal by appropriate means of the collected material and shall maintain on-site records of the dates, and means of disposal which are subject to be reviewed by SCSD #1.
 - i. Any removal and hauling of the collected materials not performed by owner(s) personnel must be performed by currently licensed waste disposal firms.
2. Records of FOG removal device(s) inspections, pumping, cleaning, and maintenance shall be made available to SCSD #1 during normal working hours.
3. Records of Operations and Maintenance shall be retained by the responsible party for a minimum of three (3) years.

SECTION 8 - NON-COMPLIANCE

1. A facility shall be considered to be non-compliant if any of the following occur:
 - a. If the grease/solids retention capacity exceeds 25% of the liquid capacity of the interceptor (for concrete tank).
 - b. The Pump-out frequency exceeds maximum days per approved SCSD #1 permit on file and or 90 days.
 - c. Plumbing and or baffle of the FOG removal device(s) is not intact, broken or missing.
 - d. The cover of the FOG removal device(s) is not: secure, in good condition, liquid tight, easily accessible, covered.
 - e. The FOG removal device(s) is not in good condition per the manufacturer's specifications, SCSD #1, applicable codes, rules and regulations.
 - f. A facility is found to be contributing FOG in quantities sufficient enough to cause back-ups, overflows, or necessitate increased maintenance in SCSD #1 system.
 - g. Interceptor discharge concentrations greater than 100 mg/l of oil and or grease.
 - h. PH levels less than 5.0 or greater than 12.0.
 - i. Failure to properly maintain or repair the FOG removal device(s).
 - j. Failure to complete, sign, and submit pumping activities, manifest forms, logs, receipts or records within the established time frame as required by SCSD #1.
 - k. Failure to maintain and provide access to logs, files, receipts, and records for inspection or monitoring by SCSD #1 during normal business hours.
 - l. Failure to provide SCSD #1 access to the FOG removal device(s) for compliance purposes, or any other purpose.
 - m. A facility that generates FOG and does not have an approved FOG removal device(s)
 - n. Non-compliance with any of the provisions of SCSD #1, manufactures instruction, codes, rules and regulations.
 - o. Signage, provisions and requirements per the current New York State Uniform Fire Prevention and Building Code, Subpart 1229-2.

SECTION 9 - ENFORCEMENT

Enforcement of this Control Plan shall be in accordance with the provisions of the most current SCSD #1 Sewer Use Ordinance (SUO). Failure to comply with this Control Plan may be grounds for penalty imposition and/or discontinuance of service. Additionally, failure to comply may result in notification to New York State Department of Health, and Saratoga County Department of Health for request of enforcement action which may lead to revocation of Food Service Permits.

Enforcement Response Plan:

1. Compliance Assistance
 - a. SCSD #1 will assist the FSE to become compliant. The assistance may include but not limited to assistance with the sizing of the FOG removal device(s), Best Management Practices or record keeping document.
2. Written Notice of Non-Compliance
 - a. This written notice shall state the nature of the violation(s) and required corrective action(s). Based on violation (grease interceptor installation, replacement, etc.) governing municipality shall be notified.
 - i. When receiving the violation, the facility shall have five (5) working days to submit a corrective action plan in writing.
 - ii. Corrective action shall be completed within fifteen (15) working days after the date of notice, or as specified by SCSD #1.
 - iii. Facility shall submit confirmation to SCSD #1 that demonstrates compliance within five (5) working days of the date of the corrective action.
3. Failure of execution and/or negligence of the written notice of non-compliance, fines shall be administered per current SUO Section 260-16(B)(3).
4. If SCSD #1 finds that a User has either violated or continues to violate this Control Plan, Local Law, a permit or a Written Notice of Non-Compliance, SCSD #1 shall issue an Administrative Order to the User responsible for the discharge directing that, following a specified time period, sewer service shall be discontinued, severed and abated unless the violation is corrected and there is no reoccurrence of the violation, per SUO Section 260-16(B)(4).