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VIA ELECTRONIC CORRESPONDENCE

June 28, 2022

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File No: 8.DC.20.52

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**RE: Consent Decree (Case: No. 1:12-cv-24400-FAM),
Reference DOJ Case No. 90-5-1-1-4022/1,
Section VI, - Fats, Oils and Grease (“FOG”) Control Program Paragraph 19(a)
Fifth Annual FOG Control Program Review Report**

Dear Sir/Madam:


In accordance with the FOG Control Program approved by the United States Environmental Protection Agency (EPA) and Florida Department of Environmental Protection (FDEP) on September 7, 2017, Miami-Dade County (County) is submitting the Fifth Annual FOG Control Program Review Report.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering such information, the information submitted is, to the best of my knowledge and belief, true, accurate

and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Should you have any questions regarding this matter, please call me at (305) 372-6754.

Sincerely,



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Miami-Dade County FOG Control Program

5th Annual FOG Control Program Review Report

June 27, 2022

Prepared by

Division of Environmental Resources Management (DERM)

Miami-Dade County Department of Regulatory and Economic Resources

Prepared for:

United States Environmental Protection Agency and

Florida Department of Environmental Protection

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5th Annual FOG Control Program Review Report

PREPARED BY:

Division of Environmental Resources Management (DERM)

Miami-Dade County Department of Regulatory and Economic Resources

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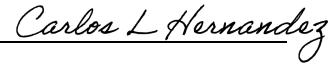
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Authorized by:

Carlos L. Hernandez, PE



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		Final	Carlos L. Hernandez, PE		

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1. Introduction

The Miami-Dade County Department of Regulatory and Economic Resources, Division of Environmental Resources Management (DERM) prepared this Annual Fats, Oils, and Grease (FOG) Control Program Review Report (Report) pursuant to Miami-Dade County's FOG Control Program (FCP) and Ordinance (FCO) approved by the United States of America Environmental Protection Agency (EPA) and Florida Department of Environmental Protection (FDEP) on September 7, 2017. The FCO was approved by the Miami-Dade County Board of County Commissioners on February 21, 2018 and became effective on March 5, 2018.

Pursuant to Paragraph 19(a)(xv) of the of the Consent Decree (CD), Case No. 1:12-cv-24400-FAM, DERM's FCP includes an annual review process to evaluate the effectiveness of the FCP and FCO to achieve reductions in FOG discharges to the wastewater collection, transmission, and treatment systems (WCTTSs) and thereby reduce sanitary sewer overflows (SSOs) caused by FOG. Performance Measures (PM) and Key Performance Indicators (KPIs) are utilized for this evaluation.

As noted in the prior annual reports, the COVID-19 Pandemic had a significant impact on food service establishments (FSEs), the permitting and inspection processes, and the FCP. While significant programmatic changes were made quickly to expand electronic services in the permitting process (migrating 100% of the permitting process to electronic platforms to facilitate submittals, reviews and approvals), the nature of the impact of COVID-19 Pandemic on FSEs required significant changes to inspection programs for existing FSEs. Additionally, the COVID-19 Pandemic has been disruptive to the workforce in two ways, the first being lost workdays due to the number of positive infections reported and second the difficulty in filling vacancies. The latter includes filling new positions and filling vacancies created by staff seeking new opportunities associated with the COVID-19 Pandemic (e.g., 7 out of 14 field personnel resigned within a 7-month time span). While it was anticipated that the impact of the COVID-19 Pandemic would subside by 2021, all indications are that impacts will linger for several years. Therefore, the following have been assumed for planning purposes:

1. The shift to performing routine inspections will occur over a two-year period: 2023-2024

2. To achieve routine inspections by 2024, the FCP will need to be fully staffed to perform routine inspections of all active permitted FSEs (i.e., FSEs with an annual Grease Discharge Operating (GDO) permit) by the end of 2023.
3. To achieve this level of staffing by 2023 will require re-assigning staff from other programs and/or adding new positions.
4. By the end of 2024, FSEs with an active GDO since 2023 will have been inspected.
5. The number of additional (new) field staff required to achieve routine inspections by 2024 are estimated in Section 2.4 below.

As noted in the prior annual report, additional staffing positions were approved to better respond to SSOs, and where possible, prevent them. This additional staff for the SSO Response & Prevention Program is key for the FCP to better focus on inspecting FSEs/GDOs. A current Table of Organization (TO) is provided in **Attachment 1**. The TO identifies all new positions added.

2. Performance Measures (PMs) and Key Performance Indicators (KPIs)

The following PMs and KPIs are being utilized to evaluate the effectiveness of the FCP and FCO and, with other factors, evaluate the need to revise the FCP and/or FCO (refer to **Table 1**).

PM	KPI	Method	DERM Target
Collection System SSOs Primarily Caused by FOG		MDWASD Monthly Report/Meeting	Annual Reduction
Collection System Blockages Primarily Caused by FOG		MDWASD Monthly Report/Meeting	Annual Reduction
	Number of FOG Generators without FOG Control Device	FOG Inspections	Annual Reduction None by 2018 ⁽¹⁾
	Routine FOG Inspection Frequency	FOG Inspections	100% Annually by September 2019 ⁽²⁾
	FOG Education (Residential)	Education	Six (6) Events Annually Implementation of the program by March 5, 2020 ⁽³⁾
	FOG Stakeholder Outreach (commercial/industrial)	Outreach	Six (6) Events Annually

(1) New Date Proposed: 2024, Refer to Section 2.2.
 (2) New Date Proposed: 2024, Refer to Section 2.4.1
 (3) New Date Proposed: 2024, Refer to Section 2.4.6

Table 1. PMs & KPIs

A summary of select PMs, KPIs and other indicators are discussed below.

2.1 Collection System SSOs Primarily Caused by FOG

SSOs reported to DERM are monitored daily and logged for tracking and assessment (e.g., root cause, enforcement and moratoriums). The total number of SSOs reported by the sixteen (16) Utilities (Miami-Dade Water & Sewer Department, MDWASD + 15 Municipal Utilities) is presented in **Chart 1a**. The data presented in **Chart 1a** is primarily from MDWASD’s reporting given the size

of the MDWASD's system relative to that of the Municipal Utilities and the experience of MDWASD's identification and reporting capabilities acquired from prior consent decrees. DERM has been working with all Municipal Utilities to improve SSO identification and reporting capabilities and this has been discussed in Utility Round Table meetings. It is believed, based on the most recent data that Municipal Utility reporting has improved. It is therefore anticipated that as Municipal Utility reporting improves, the number of SSOs may actually increase, and that this increase may conceal actual improvements associated with the FCP. For this reason, SSOs will be presented by each utility and collectively as presented in **Chart 1b**.

Additionally, it is anticipated that several years of data will be required to establish reliable trends. That is, decreases or increases in SSOs may not reflect the impact of the FCP and FCO for a few years after March 2018, the implementation date for the new FCP/FCO.

A summary of findings for SSOs follows:

1. The total number of SSOs reported by the Utilities shows an increasing trend except for a decrease in 2018 and 2021 (refer to **Chart 1a**).
2. The total number of SSOs caused by FOG was showing a decreasing trend but rose significantly in 2019 (refer to **Chart 1a**), decreasing in 2020 and 2021.
3. SSOs by Utilities in 2020 is shown in **Chart 1b**.

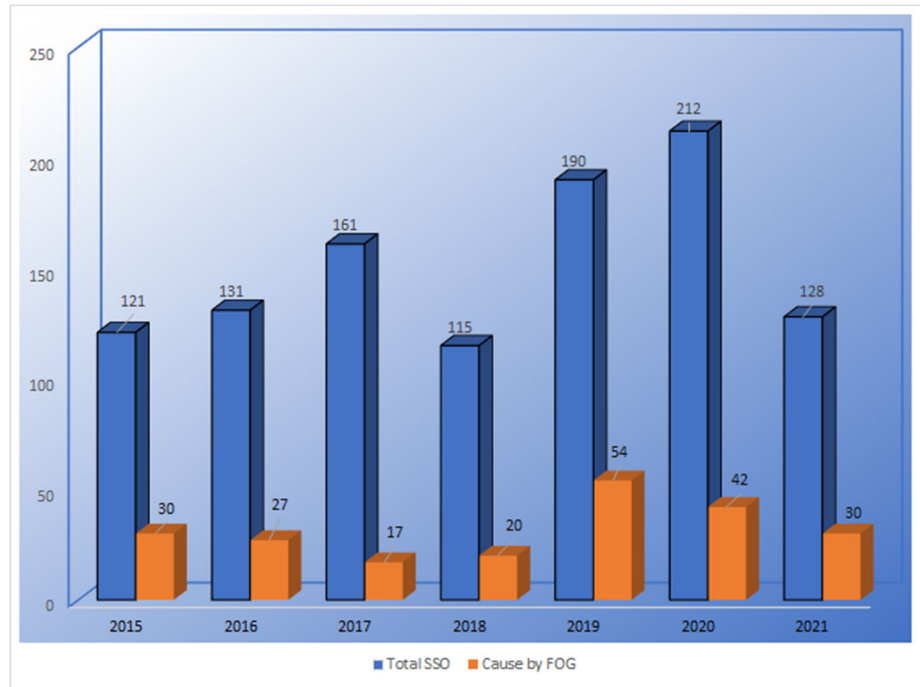


Chart 1a: Sanitary Sewer Overflows for All Utilities

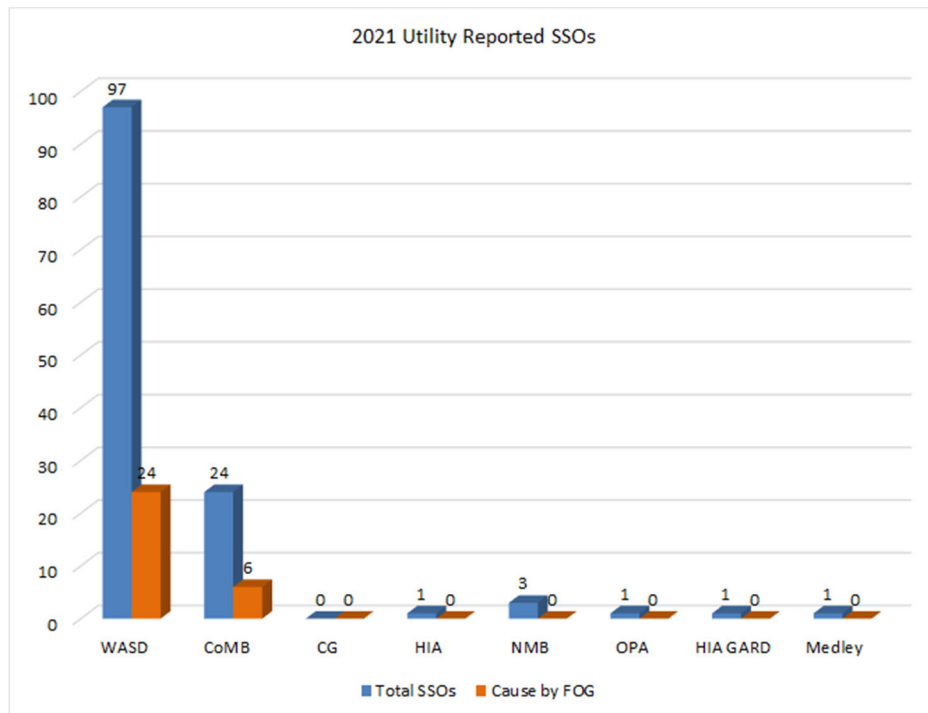


Chart 1b: 2021 Sanitary Sewer Overflows by Utility

The FCP strategies to reduce FOG related SSOs included front-end (e.g., design standards, more efficient interceptors, and eManifest) and back-end (e.g., Hot Spot reporting) process improvements. Hot Spot reporting continues to be a key area for prevention of SSOs.

As reported in the 2nd Annual FOG Control Program Review Report, MDWASD had integrated a real-time level monitoring system (e.g., SmartLevel™/SmartCover) to minimize Hot Spot SSOs. By incorporating two-way communication devices at key manholes, MDWASD can deploy field teams to prevent an SSO based on preset wastewater level alerts and warnings (i.e., wastewater level above invert measured from the bottom of the manhole cover). MDWASD defines a Hot Spot as a location with three (3) or more SSOs in a period of two (2) years. MDWASD continues to use this system to minimize SSOs.

Municipal Utilities are notifying DERM of Hot Spots utilizing the monthly Hot Spot Report or FOG complaints (areas of concern). The Municipal Utilities submit a Hot Spot report to DERM on a monthly basis. Currently, the DERM FOG Inspection Group supervisor reviews complaints and prioritizes inspections accordingly. A sample of Utility Hot Spot report is included in **Attachment 2**. The total monthly and annually costs of FOG Hot Spots for Utilities are included in **Chart 1c** and **Chart 1d** below.

Notwithstanding the improvements made, additional focus is required to reduce SSOs. To this end, DERM will be expanding the SSO Response and Prevention Program in 2022-2023.



Chart 1c: Total FOG Hot Spot Utility Cost by Month



Chart 1d: Total FOG Hot Spot Utility Cost by Year

2.2 Number of FOG Generators without a FOG Control Device

With the implementation of the new FCP, a key goal has been the reduction in the number of FSEs operating without a grease interceptor (No Grease Interceptor, NGI). Inspection efforts have focused on bringing these sites into compliance. The goal is to have zero (0) NGI sites.

The total number of NGI FSEs have decreased from **695** in 2015, to **27** (refer to **Chart 2**). This reduction is the result of a coordinated effort involving a significant number of resources working on compliance assistance, technical support and enforcement. DERM will continue to focus resources to accomplishing the goal of zero (0) NGI FSEs by 2024. Additionally, DERM is proposing a code change to increase penalties to encourage compliance.

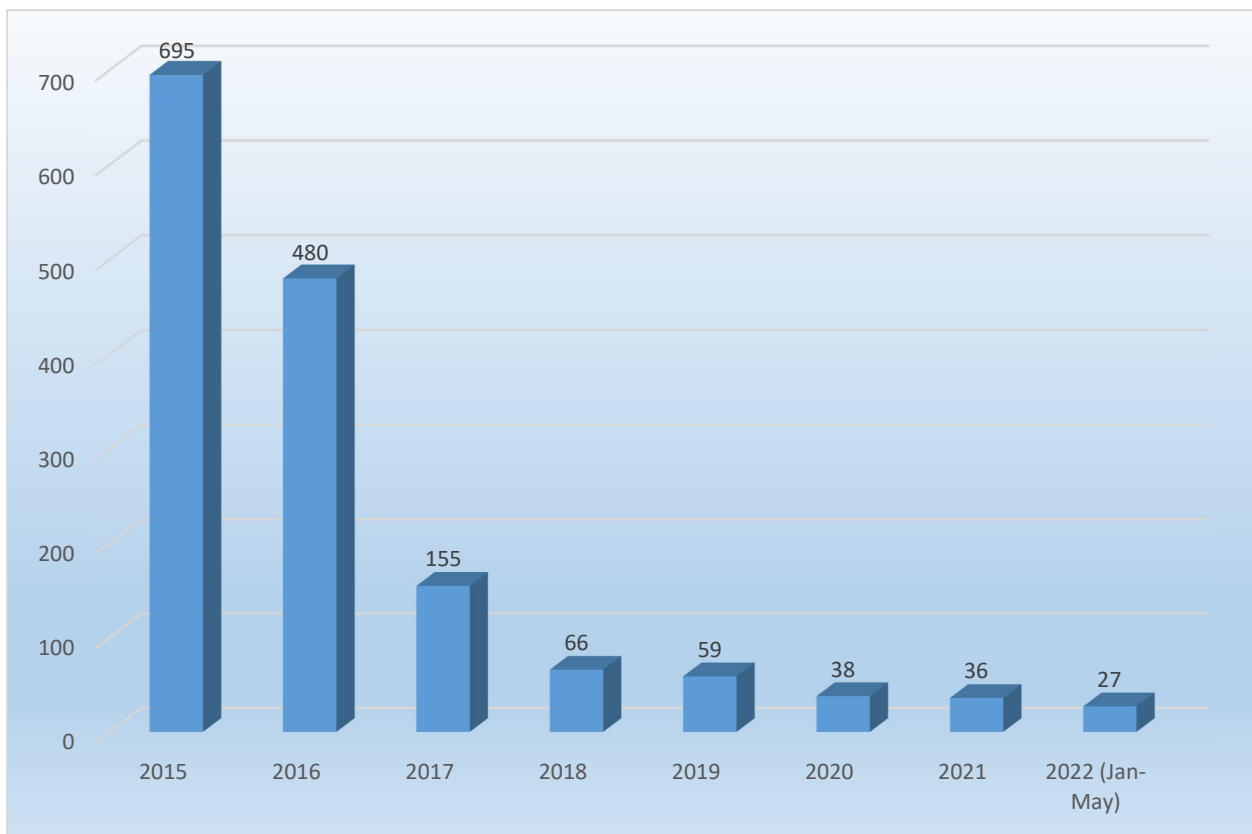


Chart 2: Food Service Establishments without a Grease Interceptor

2.3 Number of Breached FOG Control Devices

Starting with the third annual report, a new category was added: *Number of Breached FOG Control Devices*. It is anticipated that the number of NGIs will become zero and therefore a replacement category was selected that represents a significant concern and equally important to track in this report. A breached FOG Control Device is one that is damaged and/or defective so that it allows wastewater, FOG or food waste to seep, flow, or discharge into the ground, groundwater, surface waters or any other location not approved by the Director or Director's designee. Corrosion is a common root cause for breached devices and therefore unprotected concrete tanks are the most common type of breached device.

As the focus shifts to routine annual inspection in 2022-2023, a more accurate count of breached tanks will be available. Future reports will provide totals by year in a chart form and summarize enforcement efforts and outcomes.

2.4 FOG Program Workforce Analysis

Staffing resources (workforce) and workload were evaluated to assess future staffing needs. Workload was analyzed by specific task/assignments and modified accounting the new staff that joined the Division after 2021.

- Routine Inspections
- Hot Spots & Complaints Inspections [by new 2022 Staff]
- Construction Inspections
- Confirmation Inspections
- FOG Disposal Facility Inspections
- Residential Areas Inspections
- eManifest Inspections
- Private Pump Station Inspections (~ 1,500) [by new 2022 Staff]
- Public Pump Station Inspections (~1,600) [by new 2022 Staff]

A significant change from prior years is the anticipated new staffing to support additional tasks to inspect and monitor private and public pump stations. This effort became significant when the COVID-19 Pandemic made it difficult to inspect FSEs. A shift to pump station inspections resulted from social-distancing requirements and concerns that pump station failures could further complicate public health concerns. Moreover, the accumulation of FOG in a wet well is a clear sign of poor FOG control, whether it be from commercial establishments (e.g., restaurants) or

residences. Based on the success of this initiative, pump station inspections have been made a permanent task in the FCP through the end of 2021 and part of the SSO Response and Prevention Programs starting in 2022. The latter allowed staff to initiate routine annual FSE inspections in 2022.

A comparison of staffing levels, past, present and future, is shown below in **Table 2**.

Staff Position	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Change
Division Chief	1	1	1	1	1	1	1	1	1	1	No change
Program Manager	1	0	0	0	1	1	1	1	1	1	Position was moved in 2019 to temporarily address immediate needs in development programs. Replacing position is proposed ⁽¹⁾
Supervisor	2	2	2	2	2	2	3	3	3	3	Increase proposed ⁽¹⁾
FOG Inspection Staff	12	12	14 ⁽²⁾	14 ⁽²⁾	16 ⁽³⁾	16	25	25	25	25	Increase proposed ⁽¹⁾
<i>Gray used to depict estimated future values.</i> (1) Additional positions are proposed to address programmatic initiatives (2) Positions added to assist with pump station inspections. (3) Excludes Public & Private Pump Station Inspections and Hot Spot Inspections to be performed by SSO Response & Prevention Program Staff in 2022 and beyond.											

Table 2: Prior, Current & Future Staffing

Workload data (by inspection category/assignments) for previous years was reviewed and analyzed to estimate full time equivalent workforce requirements. A discussion of each inspection category, tabulated summary and assumptions (**Tables 3 and 4**) follows below.

Performance Measures for a Working Year		
Total Time Before Deductions:	52 weeks/ per year	260 working days/per year
Type of Deduction	Weeks	Days
Holidays	3.4	17
Car Maintenance	0.2	1
County Physical	0.2	1
Annual Leave	2.8	14
Sick Leave	2.4	12
Training and Meetings	2.8	14
Total Time Deducted:	11.8	59
Total Working Time Remaining:	40.2	201
201 Working Days x 4 Inspections per day = 804 inspections per year		
Reinspection Ratio = 2.25/1		
Number of GDOs Inspected per year/FTE = 357		

Table 3: Basis for Staffing Calculations

				YEAR -->	2021	2022	2023	2024	2025
Routines GDO Inspections -->					7,578	7,644	7,743	7,842	7,941
Construction -->					860	869	877	886	895
Collection System -->					500	500	500	500	500
Pump Stations -->					3,100	3,131	3,162	3,194	3,226
Status/Closed Confirmation -->					500	500	500	500	500
FOG Disposal -->					62	62	62	62	62
eManifest -->					500	500	500	500	500
Plan Review & CU/OL/BTR -->					11,237	11,462	11,691	11,925	12,163
Inspection Category	DERM TEAM	Classifications	Task/FTE/Year	2021	2022	2023	2024	2025	
Routine	FOG	Inspector	360	21	21	22	22	22	
Construction		Inspector	300	3	3	3	3	3	
Collection System: Hot Spots, Residential, Complaints	SSO R&P Program	Inspector	250	2	2	2	2	2	
Public & Private Pump Stations		Inspector	800	4	4	4	4	4	
Status/Closed Confirmation	Permitting	Inspector	500	1	1	1	1	1	
FOG Disposal		Inspector	200	0	0	0	0	0	
eManifest		Inspector	400	1	1	1	1	1	
Plan Review/CU/OL/BTR	FOG	Engineering	2500	4	5	5	5	5	
Inspector:				Broad group that includes staff trained to perform field inspections. May include multiple classifications that may change based on program-specific requirements.					

Table 4. Staffing FTEs

2.4.1 Routine Inspections

The FCP included performing routine inspections of facilities with Grease Discharge Operating (GDO) permits starting after *September 30, 2019*. As of May 2022, there were approximately 7,811 GDO permitted facilities. The total number of GDO sites has been increasing yearly (refer to **Chart 3**).

Based on ongoing inspection efforts, the duration for an average routine inspection (factoring mobilization, transportation, inspection, and report preparation), and the number of re-inspections required, the number of full time equivalent (FTE) inspectors was recalculated. Refer to **Tables 2, 3 and 4**. As discussed in Section 1.0, Introduction, to achieve routine inspections of all active GDOs by 2024 will require additional staff. Based on current approved positions, a total of approximately nine (9) FTE additional inspection positions and one supervisor will be required. This will require re-assigning staff from other programs and/or adding new positions by 2023.

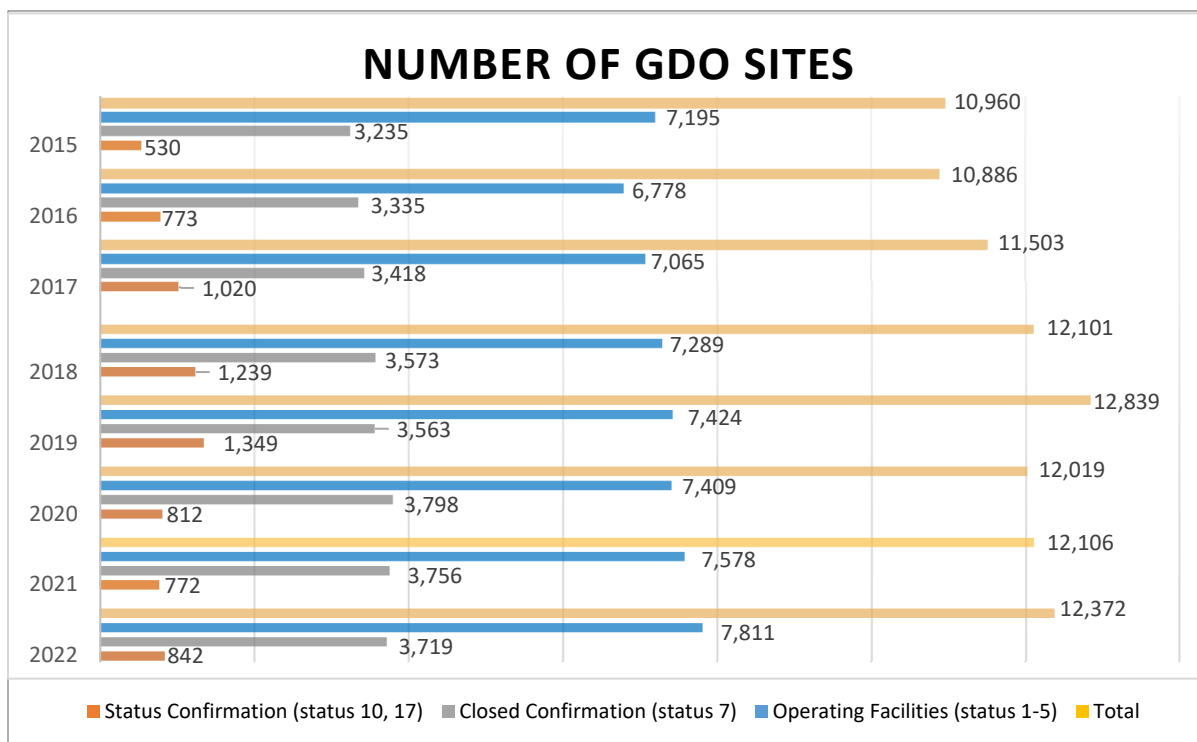


Chart 3: Number of Grease Discharge Operating Permits

2.4.2 Hot Spots & Complaints Inspections

Hot Spots inspections result from request from the Utilities to determine possible facilities causing FOG discharges in specific areas. Complaint inspections are conducted based on private and municipal complaints.

As discussed in the prior annual report, DERM is working on implementing the use of real-time level monitoring systems (e.g., SmartLevel™/SmartCover). A pilot program was proposed and approved. This pilot has expanded from the prior plan of deploying ten (10) units to approximately 200 units. However, the pilot has expanded to address all SSOs. The status of the pilot program will be discussed in the next annual report.

As noted in the **Introduction** and in **Table 4** above, it is anticipated that the Hot Spots inspections will be performed by the SSO Response & Prevention Program in close coordination with the FOG Program supervisors and new Program Manager. The program has sufficient staff based on current assumptions.

2.4.3 Construction Inspections

Starting March 2018, with the approval of the FCO, DERM began performing construction inspections to confirm compliance with approved plans. These inspections have proven to be invaluable in that they provide an opportunity to identify and correct problems during the construction phase and prior to final inspection and issuance of a Certificate of Occupancy (or Completion) being issued by the Municipal Building Department. Correcting problems after a CO or CC has been granted becomes extremely difficult, in part because a contractor has typically been paid in full and has demobilized from the site. A summary of construction inspections performed is presented below in **Chart 4**. The program has sufficient staff based on current assumptions.

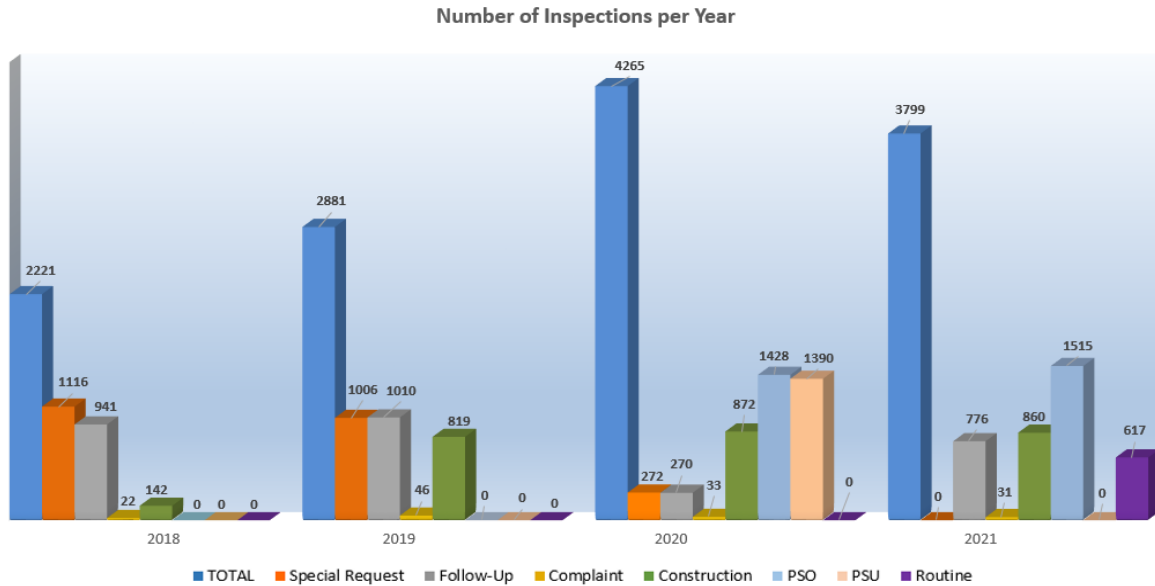


Chart 4: Number of Inspections per Year

2.4.4 Confirmation Inspections

Due to the COVID-19 Pandemic, the total number of facilities operating without a GDO permit or closed (**Chart 3**) is unknown. As routine annual inspections continue to be performed, these estimates will be re-evaluated, and actions taken accordingly. Furthermore, the GDO Permitting group will continue to perform sweeps of previously permitted facilities and GDOs that have not renewed their annual operating permit to address this category of facilities. This program has sufficient staff based on current assumptions.

2.4.5 FOG Disposal Facility Inspections

To prevent/minimize comingling of FOG with septage, educate liquid waste haulers in the use of appropriate eManifest forms, and to improve the disposal process at the wastewater treatment plant, inspections of liquid waste haulers at the South District Wastewater Treatment Plant (SDWWTP) Hauled Waste Disposal facility were initiated prior to 2018. However, due to the COVID-19 Pandemic, these inspections ceased in 2019. It is anticipated that inspections will restart in 2022 and be fully integrated in the DERM Liquid Waste program by 2023. The program has sufficient staff based on current assumptions.

2.4.6 Residential Areas Inspections

Some blockages caused by FOG reported by the utilities are in residential areas. DERM intended to initiate residential outreach in 2020 but due to the COVID-19 Pandemic this effort was postponed. This function is anticipated to start in 2023 by the SSO Response and Prevention Program and will include a limited number of real-time level monitoring systems. The program has sufficient staff based on current assumptions.

2.4.7 eManifest Inspections

Liquid waste haulers and GDO facilities are required to submit information to DERM using the eManifest system. The system generates reports of potential violations that require review and inspection. Additionally, random sampling performed by MDWASD of hauled waste, in part as a deterrent to inappropriate waste disposal, requires follow up to determine the source location of waste material that exceeds local limits. These may include facilities served by septic system and industrial facilities.

This program will be integrated into the DERM Liquid Waste program by 2023. Program staff will run monthly reports to identify potential violations and report findings to the appropriate program for inspection and follow up. The program has sufficient staff based on current assumptions.

2.5 FOG Construction Plans and Certificate of Use Reviews

An indicator of future increases (or declines) in the total number of GDO facilities is the number of construction plans and certificate of use submittals. Construction plan submittals continue to increase as shown in **Chart 5** below. The certificate of use applications shows a more significant increase for 2021 (**Chart 6**). A combined chart depicting all engineering reviews is included as **Chart 7**. The significant increase in reviews may be a function of the improved coordination and shift to an electronic review process making it less likely that a Municipality would skip the DERM (FOG) review process. How this increased activity will manifest itself in GDO permits is unknown. However, the overall increase in reviews suggest that the number of permitted facilities (GDOs) will continue to expand.

Based on the current and projected workload, this program requires an additional engineering position.

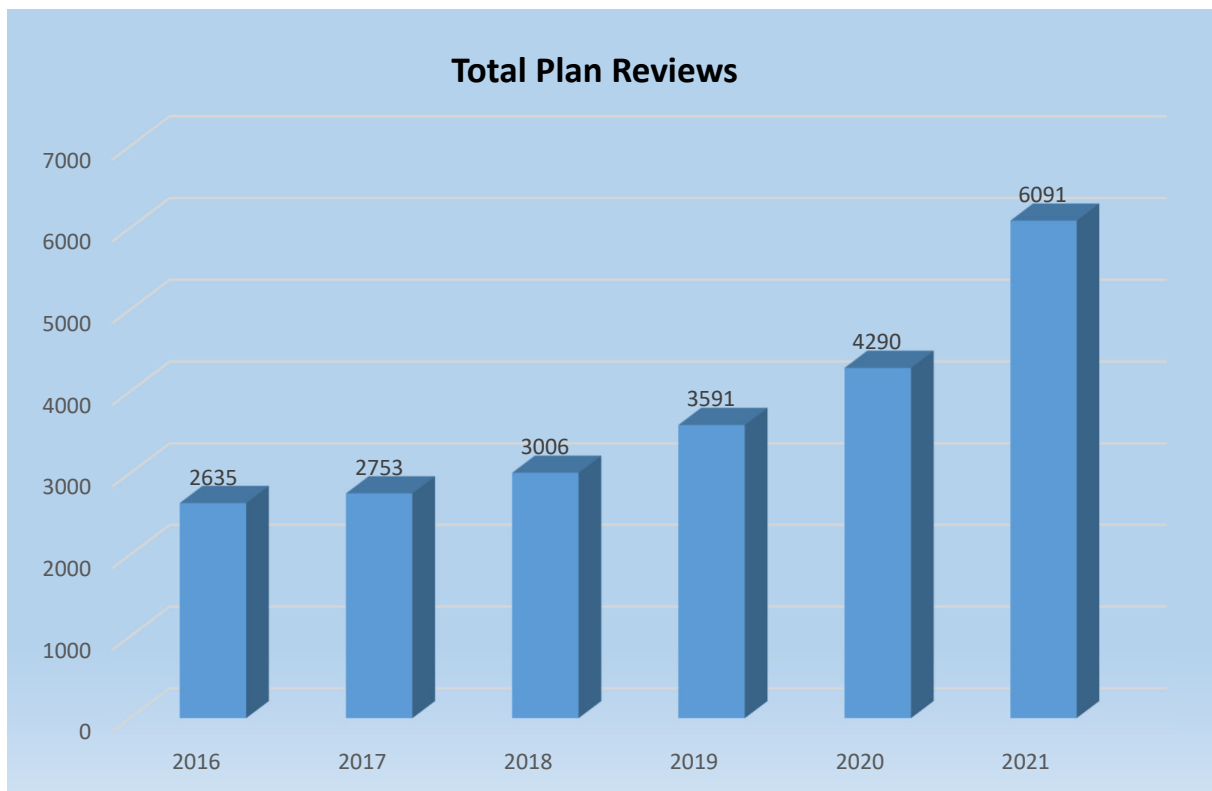


Chart 5: Total FOG Plan Reviews

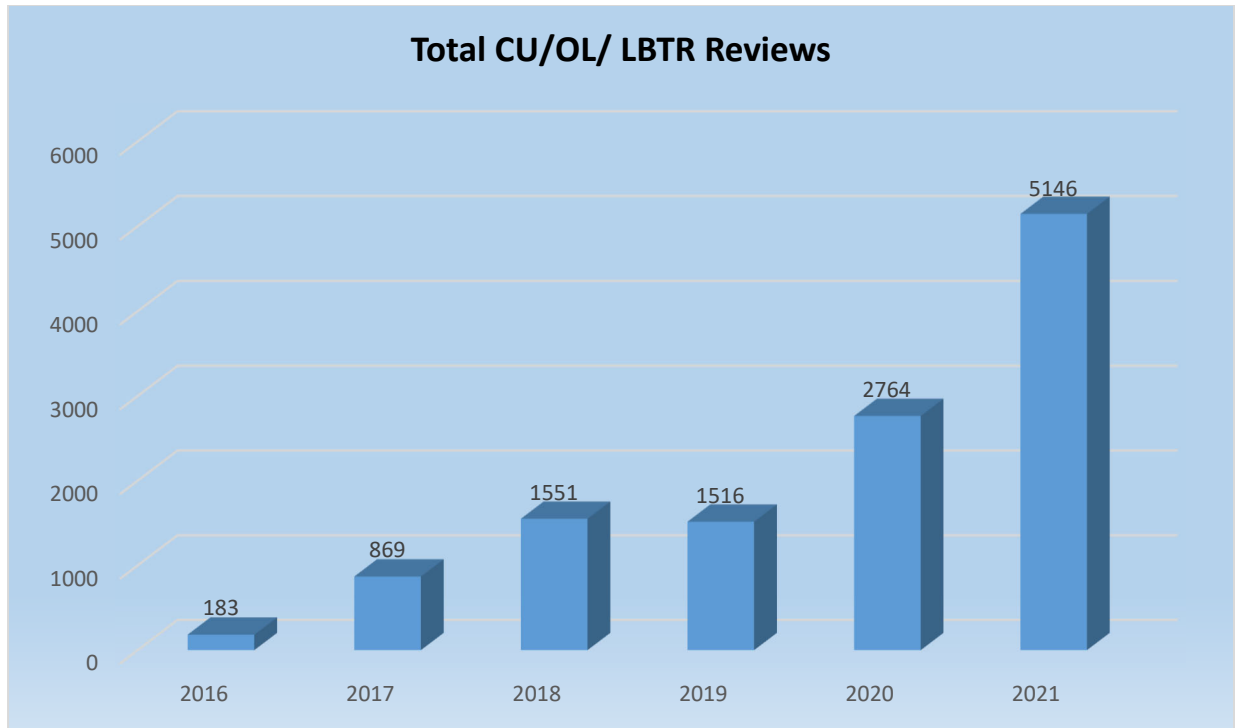


Chart 6: Occupational License, Certificate of Use Reviews

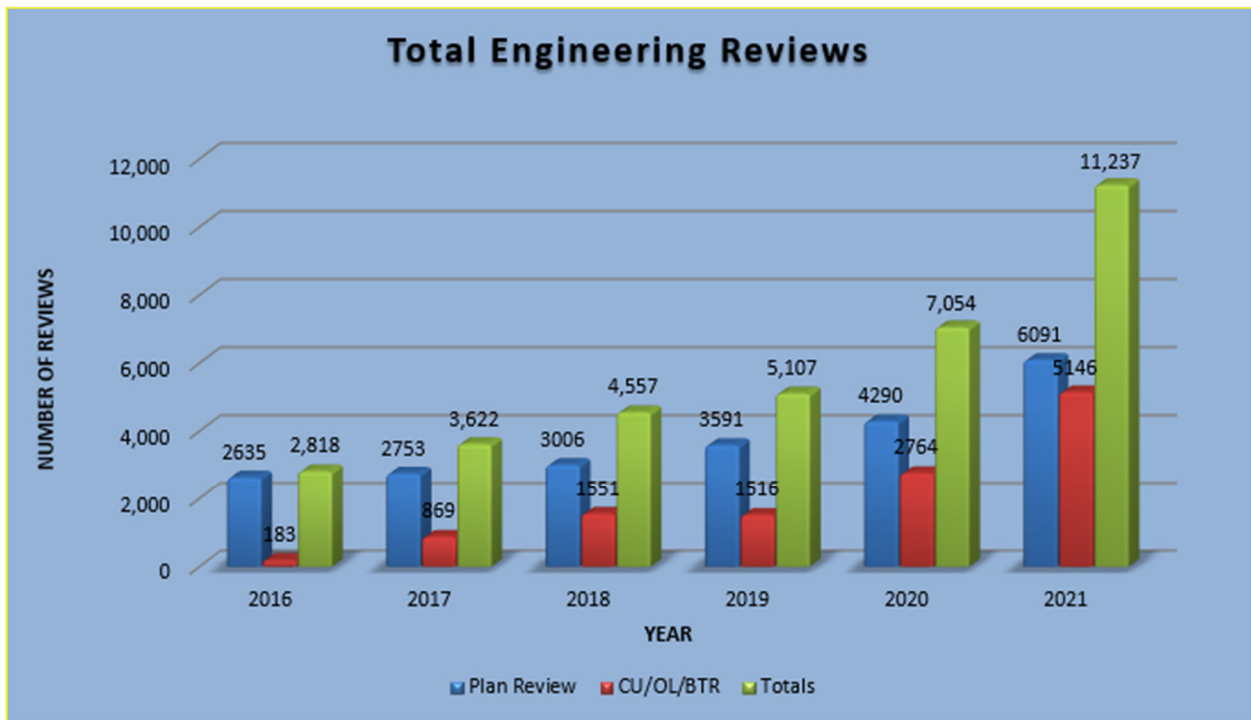


Chart 7: Total Engineering Reviews

2.6 FOG Outreach and Education Events

DERM has focused on FOG outreach and education since 2014 and has exceeded the FCP target of six (6) stakeholder outreach events per year (refer to **Table 5**) through 2020. The effects of the COVID-19 Pandemic finally curtailed outreach events in 2021. This is temporary and it is expected that outreach will pick up in 2022-2023.

As proposed in the FCP, DERM planned to expand the current MDWASD residential FOG outreach program by March 2020. The expansion was to include an educational campaign to address blockages caused by the combination of “flushable wipes” and FOG, which was one of the concerns expressed by the Utilities during the FOG Annual Review meeting held on June 18, 2019. Due to the COVID-19 Pandemic, this was not realized. It is anticipated that this effort will be reprogrammed for 2023.

YEAR	TOTAL NUMBER	RESIDENTIAL OUTREACH	NON-RESIDENTIAL
2014	15	0	15
2015	20	0	20
2016	18	2	16
2017	12	0	12
2018	19	0	19
2019	19	2	17
2020	12	0	12
2021	4	0	4

Table 5: Outreach Events

3. FOG Control Program Review Committee

The effectiveness of the FCP and FCO are continuously evaluated at the DERM Division Level (i.e., DERM Water and Wastewater Division). An annual review of the FCP effectiveness is performed by the FOG Control Program Review Committee (committee). The committee is composed of five members, each from one of the following Departments/Sections:

- DERM Water and Wastewater Division (formerly the Wastewater Permitting Section)
- DERM Director or Director’s Designee
- RER Administration

- Miami-Dade County Water and Sewer Department, Wastewater Collection and Transmission Line Division
- Volume Sewer Customers (Municipal Utility)

For 2021, input from stakeholders was requested during the 20th FOG Round Table held on April 28, 2022. The presentation and meeting materials are included in **Attachment 3**.

A summary of DERM’s FOG Implementation Schedule progress is included in **Table 6**.

FOG Implementation Schedule		
Requirement	Requirement or Goal Date	Status
No Commingling of FOG and septage	April 1, 2017	Implemented
DERM to make training materials available for FOG generators (e.g., food service establishments), liquid waste transporters and FOG disposal facilities	February 21, 2019	Implemented
DERM to implement an electronic disposal manifest system, replacing the paper-based system implemented April 1, 2015	April 1, 2017	Implemented
DERM to perform compliance assistance visits to active FSEs to promote awareness of the requirement to report electronically	October 10, 2017	Implemented
Require FSEs to utilize eManifest system (date the grease interceptor was pumped out and the name of the Liquid Waste Transporter).	January 1, 2018	Implemented
DERM to finalize procedures and checklist for Construction Inspections to be performed by RER.	January 30, 2018	Implemented
Guidelines for the Monthly Hot Spots Report will be made available to the Utilities.	January 30, 2018	Implemented
RER to perform FOG Control Device (grease interceptor) Construction Inspections for all plans approved under FOG 2.0 (i.e., all plans approved pursuant to Section 24-42.6, as enacted by County Ordinance).	March 5, 2018	Implemented
Monthly Hot Spots Report will be submitted by the Utilities per requirements in Section 24-42.6(13)	March 5, 2018	Implemented
Compliance Inspections for FSEs are being conducted annually.	September 30, 2019	Partially Implemented with Full Implementation by 2024
To comply with Section 24-42.6(10)(iv) each FOG generator and FOG control device operator shall have one (1) trained person in the staff with knowledge in FOG reporting and maintenance requirements.	January 1, 2019	Training materials made available

Table 6: FOG Implementation Schedule

After reviewing and discussing performance measures (PMs) and key performance indicators (KPIs), with stakeholders, all were provided a form to provide input for the following questions:

1. What is Your No. 1 FOG Concern?
2. If you can change one thing, what would it be?
3. Are Existing PMs/KPIs good indicators?
4. Should we add New PM/KPI?
5. Other Comments?

City of Coral Gables, the Municipal Utility part of the committee, commented that the method for PMs (Table 1) shall include not only WASD but also all the other utilities' information. Even though Table 1 lists MDWASD Monthly Report/Meeting as the method for collecting data for the Collection System SSOs and Blockages Primarily Caused by FOG Performance Measures, the data an analysis presented in this report includes incidents reported by all the municipal utilities.

With regards to PMs/KPIs, in a previous Committee Meeting, RER Director's office had proposed including volume of hauled waste as a secondary KPI, as an indicator of FOG control devices pump out (cleaning) frequency compliance. This indicator is currently tracked, and its trend is expected to be included in future reports.

Based on prior stakeholder recommendations, DERM implemented or will implement the following:

1. Improve front-end processes. The latest improvements implemented include an online system to intake and process Certificate of Use applications. This new system allows online submittal of Certificate of Use applications by customers and/or Municipalities and allows concurrent reviews by core and specialty reviewers (e.g., FOG engineers). ***It is anticipated that all processes will remain paperless.***
2. Implement the approved Pilot Program to utilize real-time level monitoring systems (e.g., SmartLevel™/SmartCover). This pilot program would deploy approximately 200 units to monitor key manholes in residential and non-residential areas. It is anticipated that it will be deployed in 2022-2023.
3. DERM will continue to expand outreach using virtual platforms. The most recent event was the 20th FOG Round Table meeting held April 28, 2022.
4. Shift existing staff from other programs and/or add new staff to perform routine inspections by 2024.

4. Proposed FCO and FCP Revisions

The FCO became effective in March 2018 and no changes are currently proposed. DERM will continue to monitor all areas of the FCO (e.g., design standards, plan review, construction inspections, operating permits, etc.) routinely to ascertain if any changes are required. Prior to making any changes to the FCO, which would require Board of County Commissioner approval, an Ordinance Revision Plan (ORP) will be submitted to FDEP and EPA for review and approval. The ORP would include, at a minimum, the regulatory and technical basis for the proposed changes and implementation schedule (e.g., public outreach, public comment, legislative timeframes, and code implementation timeline with change applicability and grandfathering criteria).

Based on working knowledge gained by implementing the FCP, the key focus for the program is to be fully staffed by 2024 to accomplish all FCP requirements.

DERM's inspection protocol for 2019 to 2021 included focusing primarily on Hot Spots and Complaints and starting to transition more staff resources to routine inspections. The goal of initiating annual inspections was initiated in October 2021. Given the level of effort required to address Hot Spots and Complaints, expanding SDWWTP inspections, eManifest enforcement/inspections, construction inspections/re-inspections, and the staff shortages caused by the COVID-19 Pandemic, shifting resources to annual inspections in 2021 was not fully realized. Moreover, based on the projected workload for all inspection categories, additional staffing is required to meet all inspection goals for 2024 and beyond. It is anticipated that additional staffing will be available and added by 2023-2024.

5. Conclusions

DERM implemented the FCP to reduce FOG discharges to the WCTTS and thereby reduce FOG related SSOs. While the FCP and FCO were approved in 2018, DERM has made great progress improving key functions: Design/Review, Compliance/Construction Inspections, FOG Manifesting (i.e., eManifest) and Outreach.

DERM will continue to make progress implementing the FCP and enforcing the FCO, and when applicable, propose changes to the EPA and FDEP.

ATTACHMENT 1

Table of Organization

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As of June 27, 2022

WATER AND WASTEWATER DIVISION

Carlos Hernandez Division Chief
 Galo Pacheco Senior Professional Engineer
 Star Anorga Secretary

**Water Distribution & Wastewater Collection & Transmission Systems
 [Construction Permitting]**

Rosa Areas	Engineer 3
Guillermo Rivera	Engineer 2
Gabriela David	Engineer 2
Hala Mirza	Engineer 2
Vacant (A. Villanueva)	RER P&P Representative
Frank Lezcano	Engineer 3
Francisco Calleja	Engineer 2
Yaimara Manero	Engineer 2
Bruce Coward	Engineer 2
Roxana Henriquez	RER P&P Representative

**Water Distribution & Wastewater Collection & Transmission Systems
 [Engineering, Reporting, Operation, Monitoring and Compliance]**

Oscar Aguirre	Engineer 3
Pablo Asencio	Engineer 2
Karina Lopez	Engineer 2
Temesgen Gebrekidan	Engineer 2
00027039 (SSORPP)	Engineer 2
00027039 (S>S)	Engineer 2
Daira Marrero	P.C. Inspector 2
Jackelyn Alberdi	P.C. Inspector 1
Tracy Jacquet	P.C. Inspector 1
Daniela Daniele	P.C. Inspector 1
Elveste Sistra	Env. Tech. 2
Vacant (Jorge del Risco)	Env. Tech. 2
00027040 (SSORPP)	Env. Tech. 2
Debbie Barahona	Env. Tech. 2

**Water & Wastewater Treatment Systems [Engineering, Reporting,
 Operation, Monitoring and Compliance]**

Richard Rojas	Engineer 3
Betsy Olmino	Engineer 2
Carlos Lincheta	Engineer 2
Frank Agras	Engineer 2
Nadia Ramnanan	Engineer 2
Jhon Garcia Valencia	Engineer 1
Vacant (Luis Cediel)	Engineer 1
Victor Cabrera	Engineer 1
Isabel Gonzalez	Engineer 1
Laura Castillo	Env. Spec. Supervisor
Vacant (Jhon Garcia Valencia)	P.C. Inspector 1
Jorge del Risco*	P.C. Inspector 1
Erika Perez	Env. Tech. 2
Edwin Mozo	Env. Tech. 2
Vacant (Yeitsi Cabrera)	Env. Tech. 2
Tracy Niclasse	Env. Tech. 2
Amani Oni Orisan	Env. Tech. 2
Ana Rodriguez	Env. Tech. 2
Jada Lee	Env. Spec. Supervisor
Vacant (Briana Henriques)	P.C. Inspector 1
Cassandra Penuela	P.C. Inspector 1
Cedric McQueen	Env. Tech. 2
Nicholas Padgett	Env. Tech. 2
Vacant (Randall Mejia)	Env. Tech. 2
Charles Bryant	Env. Tech. 2
Ricky Santos	Env. Tech. 2
Vacant (Anterrio Thornton)	Env. Tech. 2
Florian De Clercq	Env. Spec. Supervisor
Alexandra Lemus	P.C. Inspector 1
Vacant (Gabriel Bristol)	P.C. Inspector 1
Vacant (Tadeo Monterrubio)	P.C. Inspector 1

LEGEND:

Overages in RED:

(SSORPP) Sanitary Sewer Overflow Response, Prediction and Prevention Program
 (S>S) Septic to Sewer Program

Vacancies in GREEN:

(vacated by)

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ATTACHMENT 2

Sample of Utility Hot Spot Report

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Accelerated FOG Maintenance (aFOG)^{*1} Report
MDC Code Section 24-42.6(13)

Utility Name: City of Miami Beach
Month Reported: 02/01/21
Completed by: Kristina Nunez

Utility Code	Date of Maintenance mm/dd/yyyy	Maintenance Location (address)	ZIP code	X, Coordinate (Feet)	Y, Coordinate (Feet)	Causes ^{*2}	Maintenance Initial MH #	Maintenance Final MH #	Length of Pipe Cleaned (Feet)	Description of Maintenance Performed ^{*3}	List of complete name of Chemicals added	Volume Recovered for Disposal (gallons) ^{*4}	Liquid Waste Transporter DERM Permit LW-ST #	Disposal Ticket No. ^{*5}	Maintenance Cost ^{*6} Labor	Maintenance Cost ^{*6} Equipment	Maintenance Cost ^{*6} Materials/Supplies	Total Maintenance Cost	Event Id (DERM use only)
2	02/08/21	1635 Washington Avenue	33139	941847.503	530402.826	FOG	SWR22790	SWR22790	30	Hydro Jetting		525	372	360742	\$ 48.28	\$ 85.10	\$	133.38	2442351635 Washington Avenue
2	02/13/21	350 Washington Avenue	33139	940966.636	524127.347	FOG & Rags (FROG)	SWR43376	SWR433761	501	Hydro Jetting		525	372	360742	\$ 69.79	\$ 85.10	\$	154.89	244240350 Washington Avenue
2	02/13/21	1103 5th Street	33139	939225.244	524672.762	FOG & Rags (FROG)	SWR21715	SWR21715	20	Hydro Jetting		525	372	360742	\$ 39.53	\$ 42.55	\$	82.08	2442401103 5th Street
2	02/28/21	4555 Alton Road	33140	940245.922	539706.474	FOG & Rags (FROG)	SWR42189	SWR42178	1,846	Hydro Jetting		525	372	360742	\$ 303.32	\$ 376.14	\$	679.46	2442554555 Alton Road

NOTES
^{*1} Cleaning performed by utilities to prevent sanitary sewer overflows caused by FOG blockages in sanitary sewer systems, including but not limited to laterals, gravity mains, pump stations, and air release valves

^{*2} Causes
 FOG
 FOG & Rags (FROG)
 FOG & Roots
 Other

^{*3} Description of accelerated FOG maintenance performed :
 Hydro Jetting
 Pipe replaced due to grease solidified
 Chemicals added
 Other

^{*4} Quantities of waste removed, recovered, collected or treated to prevent a sanitary sewer overflow
^{*5} Disposal Ticket No., Must be reported from the Manifest form used to bring the waste to the disposal facility (Treatment plant). See sample form in the next TAB "Sample Disposal Manifest Form"
^{*6} Cost of accelerated FOG maintenance including labor, equipment, and materials. Labor shall include field and office staff

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ATTACHMENT 3

20th FOG Round Table Meeting Materials

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20th FOG Roundtable

MIAMI-DADE COUNTY
RER, DERM
WATER & WASTEWATER DIVISION
FOG CONTROL PROGRAM

Thursday, April 28th, 2022
10:00am – 12:00pm



Presenters:

- Carlos Hernandez, Division Chief
- Victor Cabrera, Engineer I
- Laura Castillo, Environmental Specialist Supervisor



Agenda:

- **Opening remarks by Carlos Hernandez, P.E. Division Chief, Water & Wastewater Division**
 - State Law changes-LWT
 - FOG Control Program Annual Review
 - Early Start & Phase Permitting
 - Policy & Process changes
- **Engineering/Plan Review**
 - Webpage changes
 - CU changes/Decision Matrix
- **Inspections**
 - Construction Inspections
 - Compliance Inspections
- **Q & A**

State of Florida Bill/Updated Regulations



 THE FLORIDA SENATE

Go to Bill: Bill # 2022 Find Statutes: 2021 Chapter

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[Home](#) > [Committees](#) > [Committee Publications](#) > [2022 Bill Summaries](#) > [Bill Summary](#)

CS/SB 1110 – Grease Waste Removal and Disposal

by Appropriations Committee and Senator Rouson

This summary is provided for information only and does not represent the opinion of any Senator, Senate Officer, or Senate Office.

Prepared by: [Environment and Natural Resources Committee \(EN\)](#)

The bill creates regulations for grease waste removal and disposal and defines related terms. The bill requires a service manifest to provide certain information, including which entity must sign it and when.

The bill requires haulers to dispose of grease waste at a disposal facility and prevents them from returning grease waste or graywater to a grease interceptor or trap. The bill provides for compliance inspections. The bill also contains penalties for failure to provide or retain a service manifest, failure to clean a grease interceptor or grease trap, and unlawful disposal of grease.

The bill authorizes a local government to receive reports of violations and to collect fines and impose license actions. The bill does not prohibit a local government from adopting or enforcing an ordinance or rule to regulate the removal and disposal of grease waste which is more strict or extensive than what the bill provides. The bill permits fiscally constrained counties and small counties to opt out of the bill's requirements.


The bill directs the Department of Environmental Protection to adopt rules to implement the new regulations in the bill.

If approved by the Governor, these provisions take effect July 1, 2022.

Vote: Senate 38-0; House 117-0

Downloads

- [PDF of this Summary \(PDF\)](#)
- [All 2022 Bill Summaries for Environment and Natural Resources Committee \(PDF\)](#)



<http://www.flsenate.gov/Session/Bill/2022/01110>

Bill CS/SB 1110 & FOG Control Ordinance

State Bill CS/SB 1110 Grease Waste Removal and Disposal	Section 24-42.6 of the MDC Code FOG Ordinance
If approved by the Governor, these provisions take effect July 1, 2022.	Effective March 5, 2018
Creates regulations for grease waste removal and disposal and defines related terms.	Section 24-42.6(11) and 24-5
Requires a service manifest to provide certain information, including which entity must sign it and when.	Section 24-42.6(11)(a) All waste transported and FOG control device condition assessments shall be manifested using forms prescribed by the Director or Director's designee and reported using a secure online system or an equivalent system developed by the Department. Reporting shall be completed no later than 20 days after the end of the month during which cleaning was performed.
Requires haulers to dispose of grease waste at a disposal facility and prevents them from returning grease waste or graywater to a grease interceptor or trap.	Section 24-42.6(11)(b) FOG, yellow grease, black grease and brown grease shall only be stored or disposed at private or public facilities approved by the Department.
Provides for compliance inspections.	Inspections are conducted for FOG generating facilities and Liquid Waste Transporters
Contains penalties for failure to provide or retain a service manifest, failure to clean a grease interceptor or grease trap, and unlawful disposal of grease.	Sections 24-42.6(11) and 24-46
Does not prohibit a local government from adopting or enforcing an ordinance or rule to regulate the removal and disposal of grease waste which is more strict or extensive than what the bill provides.	Section 24-42.6(11) Also includes requirements for: personnel training, no comingling of FOG waste with sewage, condition assessment and inspection of FOG control devices.

Bill CS/SB 1110 & FOG Control Ordinance

New Requirements

Facilities operating in Miami Dade County will be required to have a service Contract with a Licensed hauler to clean the grease interceptors at the frequency established in the GDO permit.

FOG Control Program Annual Review 2020



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES ENVIRONMENTAL RESOURCES MANAGEMENT 701 NW 1st Court, 2nd Floor Miami, Florida 33136-3912 T 305-372-6789 dems@miamidade.gov

VIA ELECTRONIC CORRESPONDENCE

June 30, 2021

CCN: 63918
File No: 8.DC.06.19

Chief, Environmental Enforcement Section
Environment and Natural Resources Division
U.S. Department of Justice
P.O. Box 7611
Tom Mariani
Washington, D.C. 20044-7611
RE: DOJ No. 90-5-1-1-4022/1
Tom.Mariani@usdoj.gov

Chief, Clean Water Enforcement Branch
Water Protection Division
Attn: Brad Ammons
U.S. Environmental Protection Agency, Region 4
61 Forsyth Street, S.W.
Atlanta, Georgia 30303
Ammons.Brad@epa.gov

Rachael Amy Kamons
Environmental Enforcement Section
U.S. Department of Justice
P.O. Box 7611
Ben Franklin Station
Washington, D.C. 20044-7611
Rachael.Kamons@usdoj.gov

Florida Department of Environmental Protection
Southeast District – West Palm Beach
3301 Gun Club Road, MSC 7210-1
West Palm Beach, FL 33406
Attn: Compliance/Enforcement Section
Jason.Andreotta@dep.state.fl.us

RE: Consent Decree (Case: No. 1:12-cv-24400-FAM),
Reference DOJ Case No. 90-5-1-1-4022/1,
Section VI, - Fats, Oils and Grease ("FOG") Control Program Paragraph 19(a)
Fourth Annual FOG Control Program Review Report

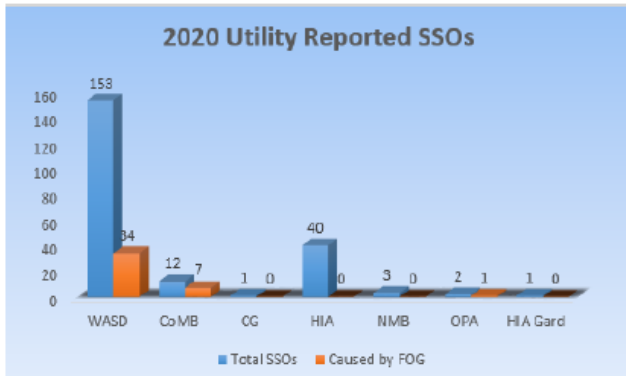


Chart 1b: 2020 Sanitary Sewer Overflows by Utility

2. Performance Measures (PMs) and Key Performance Indicators (KPIs)

The following PMs and KPIs are being utilized to evaluate the effectiveness of the FCP and FCO and, with other factors, evaluate the need to revise the FCP and/or FCO (refer to Table 1).

PM	KPI	Method	DERM Target
Collection System SSOs Primarily Caused by FOG		MDWASD Monthly Report/Meeting	Annual Reduction
Collection System Blockages Primarily Caused by FOG		MDWASD Monthly Report/Meeting	Annual Reduction
	Number of FOG Generators without FOG Control Device	FOG Inspections	Annual Reduction None by 2018
	Routine FOG Inspection Frequency	FOG Inspections	100% Annually by September 2019
	FOG Education (Residential)	Education	Six (6) Events Annually Implementation of the program by March 5, 2020 ⁽¹⁾
	FOG Stakeholder Outreach (commercial/industrial)	Outreach	Six (6) Events Annually

⁽¹⁾ March 5, 2018 + 24 Months (October 18, 2017 Miami-Dade County FOG Control Program & Proposed FOG Control Ordinance, Section 13.01)
Table 1. PMs & KPIs

A summary of select PMs, KPIs and other indicators are discussed below.

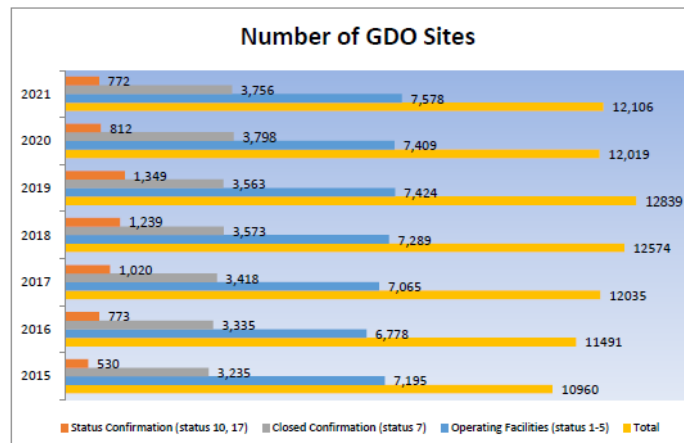


Chart 3: Number of Grease Discharge Operating Permits

A summary of findings for SSOs follows:

- The total number of SSOs reported by the Utilities shows an increasing trend except for a decrease in 2018 (refer to Chart 1a).
- The total number of SSOs caused by FOG was showing a decreasing trend but rose significantly in 2019 (refer to Chart 1a), decreasing in 2020.
- SSOs by Utilities in 2020 is shown in Chart 1b.

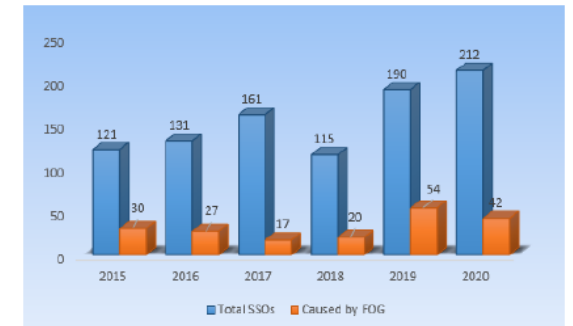


Chart 1a: Sanitary Sewer Overflows for All Utilities



Chart 5: Total FOG Engineering Reviews (Overtown & PIC)

FOG Control Program Annual Review

PM	KPI	Method	DERM Target
Collection System SSOs Primarily Caused by FOG		MDWASD Monthly Report/Meeting	Annual Reduction
Collection System Blockages Primarily Caused by FOG		MDWASD Monthly Report/Meeting	Annual Reduction
	Number of FOG Generators without FOG Control Device	FOG Inspections	Annual Reduction Goal is to have None by end of 2018
	FOG Inspection Frequency	FOG Inspections	100% Annually by 2019
	FOG Education (Residential)	Education	Six (6) Events Annually, to be fully implemented by March 4, 2020
	FOG Stakeholder Outreach (commercial/industrial)	Outreach	Six (6) Events Annually

- Evaluate FOG inspection compliance and compliance assistance effectiveness in reducing wastewater collection and transmission system blockages and sanitary sewer overflows (SSOs).
- Discuss how Performance Measures (PMs) and Key Performance Indicators (KPIs) are measured, tracked, and evaluated.

FOG Control Program Annual Review

- What is your #1 FOG Concern?
 - If you can change one thing, what would it be?
 - Are the PM/KPI good indicators?
 - Should we add new PM/KPI?
 - Other Comments?
-
- **Send us your input: FOG@miamidade.gov**

Proposed Policy & Procedure Changes

SAMPLE April 1, 2022

Proposed Policy and/or Procedure Update:	Proposed Implementation Date:	Where to find more Info:	Submit Coomments to DERM:	Due Date for All Comments:	Next Utility Round Table:
NEW DERM Notes: DERM Notes for Sanitary Sewer Construction Permits are being updated to better reflect requirements related to ground d/groundwater Contamination.	April 1 + 60 Days: The New DERM Notes will be effective within 60 days.	The Proposed DERM Notes can be found at: WEBPAGE.GOV Once implemented, the Notes will show Effective Date (versus DRAFT).	Feedback/comments shall be submitted to DERM EMAIL@MIAMIDADE.GOV	April 1 + 30 Days: All comments due to DERM within 30 days.	Will provide an update and reminder of changes implemented.

Implementation Date:

Comments to DERM by:

Previous Policy & Procedure Changes

FOG 2.0 RER-DERM Summary Block Gravity FOG Control Device (G-FCD)

Required Information	Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4
Capacity (gallons)				
DOH Tank Approval No.				
Precast concrete plant name				
FDOT approved precast concrete plant certifying agency (e.g., CCI, PCI, NPCA)				
Coating or liner type applied by manufacturer for tank materials requiring protection at pH 3				
Interceptor Monitoring Alarm Model No.				
Interceptor Monitoring Device Model No.				
Sampling port manufacturer, and model				

Updated: 7/21/2020

The FCD, and associated appurtenances on FOG-approved stamped sheets in this set must be installed on site. Equivalent or similar equipment is not accepted by this Division. Should the FOG-approved plan sheets be voided and/or revised, they shall be submitted to the Building Department, and DERM-Grease accordingly for approval.

ALL EQUIPMENT LABELS MUST BE VISIBLE AT THE TIME OF THE DERM/BUILDING INSPECTION, AND REMAIN VISIBLE THEREAFTER

FOG 2.0 RER-DERM Summary Block Hydromechanical FOG Control Device (H-FCD)

Required Information	Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4
Capacity (gpm)				
FOG Load Capacity (lbs) at 99% Efficiency				
Manufacturer				
Model No.				
3 rd Party Certifier (i.e., PDI, CSA, ASME)				
Interceptor Monitoring Alarm Model No.				
Interceptor Monitoring Device Model No.				
Solid Separator manufacturer and model				
Sampling port manufacturer and model				

Updated: 7/21/2020

The FCD, and associated appurtenances on FOG-approved stamped sheets in this set must be installed on site. Equivalent or similar equipment is not accepted by this Division. Should the FOG-approved plan sheets be voided and/or revised, they shall be submitted to the Building Department, and DERM-Grease accordingly for approval.

ALL EQUIPMENT LABELS MUST BE VISIBLE AT THE TIME OF THE DERM/BUILDING INSPECTION, AND REMAIN VISIBLE THEREAFTER



Engineering: Permitting and Plan Review

Presented by:
Victor Cabrera, Engineer I

Certificate of Use review

Modification of square footage or seating from what DERM/Grease has on record (whether active or inactive GDO permit) require new plans with these changes to be sent to Building Department, and DERM Plan Review for review by all applicable regulatory agencies:

State Health Department, DERM-Core for allocations, DERM-Grease, WASD, Building Fire Dept., etc.

When returning to the CU process after all plan review approvals: CU application and GDO permit application, etc. shall reflect consistent FSE use/type, square footage, seating, etc.

Upcoming updates to our webpage

List of accepted 99% efficient hydromechanical FCDs as provided to us by the FCD manufacturers

Link to State Health Office/FDOH approved gravity FCDs (do not save PDF generated from link)

Removed FOG 2.0 from Summary Blocks to prevent confusion

Updated CU Decision Matrix

<https://www.miamidade.gov/environment/fats-oils-grease.asp>

99% FOG Removal Efficient Hydromechanical FCDs

LIST OF HYDROMECHANICAL GREASE INTERCEPTORS TESTED @ 99% REMOVAL EFFICIENCY*¹

MANUFACTURER	MODEL	TESTED CONFIGURATION	TESTED GPM	1 x GI Capacity (lbs) @ 99%	2 x GI Capacity (lbs) @ 99%	3 x GI Capacity (lbs) @ 99%	4 x GI Capacity (lbs) @ 99%	STANDARD	Flow Control ²	REPORT No.	REPORT DATE
Schier	GB1	1 unit	20	15.85	31.70	47.55	63.40	ASME A112.14.3-2000, CSA B481.1-12 (Type C)	Internal	IAPMO 1757-18018	1/15/2016
Endura	3935A04	2 units in series	35	0.00	214.76	214.76	429.52	ASME A112.14.3-2000, PDI-G101-2015 (Type A)	External	NSF J-00301193	8/17/2018
MiFAB	MI-G-6-PL-99, LIL-35-99/FE-35-99	2 units in series	35	0.00	83.12	83.12	166.24	ASME A112.14.3-2018 (Type A)	External	GHL-TR-JC20190812-02	8/16/2019
Schier	GB2-2	2 units in series	35	0.00	180.11	180.11	360.22	ASME A112.14.3-2000, CSA B481.1-12 (Type C)	Internal	IAPMO 1757-18018	3/20/2018
Zurn	Z1165-700	1 unit	35	103.46	206.92	310.38	413.84	PDI-G101 (Type A)	External	NSF J-00177144	8/11/2015
Endura	4050HEA04 / 4050HEA04C (cast-iron lid)	1 unit	50	108.87	217.74	326.61	435.48	PDI-G101-2015 & ASME A112.14.3-2000 (Type A)	External	NSF J-00301234	8/21/2018
Schier	GB-75-B	1 unit	50	623.00	1,246.00	1,869.00	2,492.00	ASME A112.14.3-2018 & CSA B481.0 & B481.1-12 (Type D)	Internal	IAPMO 1757-20030	8/12/2020
Thermaco	TZ-525	1 unit	50	524.98	1,049.96	1,574.94	2,099.92	PDI-G101-2015 & ASME A112.14.3-2000 (Type A)	External	NSF J00329449	4/17/2019
Endura	4075HEA04 / 4075HEA04C (cast-iron lid)	1 unit	75	192.98	385.96	578.94	771.92	PDI-G101-2015 & ASME A112.14.3-2000 (Type A)	External	NSF J-00301237	8/22/2018
Endura	4075A04 Series **	2 units in series	75	0.00	1,098.76	1,098.76	2,197.52	PDI-G101-2015 & ASME A112.14.3-2000 (Type A)	External	NSF J-00301233	8/17/2018
Mifab	XL-MI-G-PL-750, BIG-750/FE750	2 units in series	75	0.00	1,306.30	1,306.30	2,612.60	ASME A112.14.3-2018 (Type A)	External	GHL-TR-DZ20190206-02	5/7/2019
Schier	GB-250-B	1 unit	75	1,817.00	3,634.00	5,451.00	7,268.00	ASME A112.14.3-2018 & CSA B481.0 & B481.1-12 (Type D)	Internal	IAPMO 1757-19027	1/31/2020
Schier	GB-75-2	2 units in series	75	0.00	861.10	861.10	1,722.20	ASME A112.14.3-2000 & CSA B481.1-12 (Type C)	Internal	IAPMO 1757-17012	8/28/2017
Endura	40100A04 **	2 units in series	100	0.00	1,486.97	1,486.97	2,973.94	ASME A112.14.3-2000 (Type C)	Internal	NSF J-00256010	4/28/2017
Highland	HM-100-93 AC	1 unit	100	514.89	1,029.78	1,544.67	2,059.56	PDI-G101-2015 (Type A)	External	NSF J00329711	4/24/2019
MiFAB	XL-MI-G-PL-1150, BIG-1150/FE1150	2 units in series	100	0.00	2,178.88	2,178.88	4,357.76	ASME A112.14.3-2018 (Type A)	External	GHL-TR-DZ20181217-04	5/7/2019
MiFAB	SUPER-500, SM-MI-G-PL-500, FE-XL-500	1 unit	100	298.65	597.30	895.95	1,194.60	PDI-G101-2017 (Type A)	External	GHL-TR-DZ20180501-01	5/1/2018
MiFAB	SUPER-1250, SM-MI-G-PL-1250, FE-XL-1250	1 unit	100	3,433.00	6,866.00	10,299.00	13,732.00	ASME A112.14.3-2018 (Type A)	External	GHL-TR-JC20200601-01	6/1/2020
Schier	GB250-2 Series	2 units in series	100	0.00	2,593.58	2,593.58	5,187.16	ASME A112.14.3-2000 & CSA B481.1-12 (Type C)	Internal	IAPMO 1757-17013	10/12/2017
Schier	GB-500-B	1 unit	100	2,817.78	5,635.56	8,453.34	11,271.12	ASME A112.14.3-2018 & CSA B481.0 & B481.1-12 (Type C)	Internal	IAPMO 1757-19023	5/20/2019
Schier	GB-1000 (old model)	1 unit	100	6,236.98	12,473.96	18,710.94	24,947.92	ASME A112.14.3-2000 & CSA B481.1-12 (Type C)	Internal	IAPMO 1757-18016	3/29/2018
Schier	GB-1000 (new 2021 model)	1 unit	100	5,272.00	10,544.00	15,816.00	21,088.00	ASME A112.14.3-2000 & CSA B481.1-12 (Type C)	Internal	IAPMO 1757-21033	9/2/2021
Thermaco	TZ-1826	1 unit	100	1,826.73	3,653.46	5,480.19	7,306.92	ASME A112.14.3-2000 (Type A)	External	IAPMO 907-15010	3/2/2015
Zurn	Zurn FOG-ceptor Z250H-MD in Series	2 units in series	100	0.00	3,245.76	3,245.76	6,491.52	PDI G101-2017 & ASME A112.14.3-2018 (Type A)	External	TR-JC20200424-01	5/30/2020
Zurn	Zurn Z-250H Series	2 units in series	100	0.00	891.25	891.25	1,782.50	PDI G101-2015 (Type A)	External	NSF J-00295169	5/11/2018
Schier	GB-1000 (new 2021 model)	1 unit	200	3,127.00	6,254.00	9,381.00	12,508.00	ASME A112.14.3-2000 & CSA B481.1-12 (Type D)	Internal	IAPMO 1757-21034	10/18/2021
Schier	GB-1000-B ***	1 unit	200	3,681.00	7,362.00	11,043.00	14,724.00	ASME A112.14.3-2000 & CSA B481.1-12 (Type D)	Internal	IAPMO 1757-20031	10/30/2020

Updated: 3/10/2022

*¹ DERM notified by the manufacturer. Contact manufacturers for latest information and test results.

*² **Type A** - Units tested with an external flow control. Therefore, require a vented external flow control, which shall be proposed at plan submittal.

Type C - Units tested without an external flow control, directly connected

Type D - Units tested without an external flow control, indirectly connected

** Endura 4075A04 and 40100A04 with suffix "C" for cast iron lids or "M" for pedestrian lids.

*** Schier GB-1000-B is not approved for shell design proposals with 6" or more GW line. Buildouts w/ 6" GW line is limited at 1/8 slope to 200gpm and 460 DFUs maximum.

Weblink to FDOH list of approved Gravity FCDs

The screenshot shows the Florida Department of Environmental Protection website. The main heading is 'Product Listings and Approval Requirements'. Below this, there are sections for 'Onsite Sewage Program Quick Links' and 'Approved Products and Components'. The 'Approved Products and Components' section lists various items such as 'Alternative Drainfield Products', 'Composting Toilets', 'Incinerating Toilets - NSF Protocol P157', 'Fibers for Concrete Receptacles', 'Pump Chamber Inserts / Filtered Pump Vaults', 'Septic Tank Designs', 'Septic Tanks Meeting HS20 Traffic Standards', 'Septic Tank Outlet Filters', and 'Septic Tank Seals and Sealants'.



DEPARTMENT OF ENVIRONMENTAL PROTECTION

SEPTIC TANK DESIGNATED APPROVAL NUMBERS

SEPTIC TANK MANUFACTURERS

run date: 3/28/2022

Searching for: HS20

Oldcastle Precast, Inc. Orlando

690 W Taft-Vineland Rd
Orlando FL 32824

Orange

ACTIVE

TANK NUMBER	CATEGORY	WALL THICKNESS	LIQUID DEPTH	TOP EXTERIOR WIDTH	TOP EXTERIOR LENGTH	IN-OUT DROP	EFFECTIVE GALLONS	TOTAL GALLONS (Pump Tanks)	APPROVAL USE	APPROVAL DATE	FAMILY
48-106-075D-C4	C4	5.00	51.00	58	88	2.5	750	900	GI	2/20/2017	
REMARKS: slide-in baffle, flow-through hole invert 13.5"; not for septic tank use; 6,000 psi concrete; HS20, 0-4 ft of cover; drawing 374-GT750-48x78-DOH											
48-106-075S-C4	C4	5.00	51.00	58	88	2.5	750	950	B,GI	2/20/2017	
REMARKS: 6,000 psi concrete; HS20, 0-4 ft of cover; drawing 374-GT750-48x78-DOH											
48-106-076D-C4	C4	6.00	40.00	60	108	2.5	750	950	GI	2/20/2017	
REMARKS: slide-in baffle, flow-through hole invert 16.5"; not for septic tank use; 5,500 psi concrete; HS20, 0-4 ft of cover; drawing 374-GT750-48x96-DOH											
48-106-076S-C4	C4	6.00	40.00	60	108	2.5	750	1,000	B,GI	2/20/2017	
REMARKS: 5,500 psi concrete; HS20, 0-4 ft of cover; drawing 374-GT750-48x96-DOH											
48-106-100D-C4	C4	6.00	48.00	72	96	2.5	1000	1,200	GI	2/20/2017	
REMARKS: slide-in baffle, flow-through hole invert 15.5"; not for septic tank use; 6,000 psi concrete; HS20, 0-4 ft of cover; drawing 374-GT750-60x84-DOH											
48-106-100S-C4	C4	6.00	48.00	72	96	2.5	1000	1,250	B,GI	2/20/2017	
REMARKS: 6,000 psi concrete; HS20, 0-4 ft of cover; drawing 374-GT750-60x84-DOH											
48-106-125D-C4	C4	6.00	40.00	72	138	2.5	1250	1,650	GI	2/20/2017	
REMARKS: slide-in baffle, flow-through hole invert 13.5"; not for septic tank use; 5,500 psi concrete; HS20, 0-4 ft of cover; drawing 374-GT750-60x126-DOH_B											

<https://floridadep.gov/water/onsite-sewage/content/product-listings-and-approval-requirements>



CU/OL Decision Matrix

FOG CU/OL Review Decision Matrix
April 27, 2022

Facility Status	GDO Permit Status	Type	CU (or Municipal Equivalent) Review	Actions by CU Reviewer	Actions by FOG Review Engineer
Existing Facility Discharging to Public Sewers	NGT or UNKN ⁽¹⁾	A	Food Service Establishment (FSE) with Status 13 (NGT/UNKN) - these are the "Original" NGTs that the Department issued GDOs with NGT Shell	Advise applicant that they will need to submit plans to the Building Department and DERM-Grease for the installation of a FCD	
		B	1. NO change in FSE type, NO change in seating, NO change in area, & NO open enforcement. 2. GDO Application is completed properly with required signatures. MDC Section 24-42.6(7)(c)	Activate FOG Review to verify FOG Control Device (FCD) condition assessment results	FOG Review to include FOG Control Device (FCD) Condition Assessment ^{(2), (3)}
	Active GDO Permit (Status 1 to 5) OR Prior use had a valid GDO operating permit within the last 12 months	C	Change in FSE type; increased seating capacity, dining area, or drive-thru capacity ⁽⁴⁾ MDC Section 24-42.6(7)(b)	Activate FOG Review, CU NOT approved. Advise applicant that a FOG review is required to determine if existing FCD system has adequate capacity and if it is in compliance with Section 24-42.6.	Plans with sizing calculations Signed by a P.E., to show compliance with MDC Section 24-42.6 AND FOG Control Device Condition Assessment ^{(2), (3)} required with the CU Application. 1. If no plumbing changes, AS-BUILT showing compliance with MDC Section 24-42.6 (CU Intake). **A, **B 2. If plumbing changes, construction plans (BLDG & DERM) submittal required (Building Intake). 3. If increasing square footage or, seating not previously approved by DERM-Grease, construction plans (BLDG & DERM-Grease) submittal required (Building Intake). 4. If breached FCD (per condition assessment) construction plans (BLDG & DERM-Grease) submittal required (Building Intake). 5. If insufficient capacity construction plans (BLDG & DERM) submittal required (Building Intake). **A, For facilities with existing hydromechanical FCD, if the FCD does not comply with 99% removal efficiency, then request construction plans, instead of as-built. **B, As-built with existing gravity FCDs are NOT required to show compliance with pH, DOH number and, concrete precasting facility.
		D	Open enforcement	Advise customer that violation needs to be corrected prior to CU issuance.	Follow instructions in NOV/WN.
	E	No previous record of CU approved by DERM	Activate FOG Review, CU NOT approved.	1. NO change in FSE type, NO change in seating, NO change in area, & NO open enforcement go to B. 2. Change in FSE type; increased seating capacity, dining area, or drive-thru capacity ⁽⁴⁾ , go to C.	
	F	Plans approved by DERM-Grease after 2018	Activate FOG Review to Confirm Plans Match GDO Application	1. Confirm Plans Match GDO Application. 2. DERM FOG construction inspection approval green card required for MUNICIPALITIES. To schedule a DERM FOG construction inspection email iFOG2@miamidade.gov providing the DERM-Grease plan approval process #, the address, folio #, and name and phone # of the contact person who will be on site for the inspection.	
	Closed/Inactive GDO permit > 12 months (Status 7) OR Never had a GDO permit MDC Section 24-42.6(5)(A)	G	NO change in FSE type, NO change in seating, NO change in area, & NO open enforcement	Activate FOG Review, CU NOT approved	Plans with sizing calculations Signed by a P.E., to show compliance with MDC Section 24-42.6 AND Grease Interceptor Condition Assessment ^{(5), (6)} required with the OL Application. 1. If no plumbing changes, AS-BUILT showing compliance with MDC Section 24-42.6 (OL Intake). **A, **B 2. If plumbing changes, construction plans (BLDG & DERM) submittal required (Building Intake). 3. If increasing square footage or, seating not previously approved by DERM-Grease, construction plans (BLDG & DERM-Grease) submittal required (Building Intake). 4. If breached Interceptor (per condition assessment) construction plans (BLDG & DERM-Grease) submittal required (Building Intake). 5. If insufficient capacity construction plans (BLDG & DERM) submittal required (Building Intake). **A, For facilities with existing hydromechanical FCD, if the FCD does not comply with 99% removal efficiency, then request construction plans, instead of as-built. **B, As-built with existing gravity FCDs, are NOT required to show compliance with pH, DOH number and, concrete precasting facility.
		H	Change in FSE type, increased: seating capacity, dining area, or drive-thru capacity ⁽⁴⁾		
		I	FSE with existing FCD, NEVER HAD A GDO PERMIT, NO record of plans approved by DERM-Grease after 2018		
		J	No previous record of CU approved by DERM		
		K	Open enforcement		
	L	Plans approved by DERM-Grease after 2018	Activate FOG Review to Confirm Plans Match GDO Application	1. Confirm Plans Match GDO Application. 2. DERM FOG construction inspection approval green card required for MUNICIPALITIES. To schedule a DERM FOG construction inspection email iFOG2@miamidade.gov providing the DERM-Grease plan approval process #, the address, folio #, and name and phone # of the contact person who will be on site for the inspection.	
	Second User (Any Status)	M	Second or additional FSE user sharing/impacting the FCD	Activate FOG Review, CU NOT approved.	Same as H. Note that a GDO permit will be issued to each user, and authorization letter is required from existing user to allow the additional discharge to the interceptor.
Existing Facility Discharging to SEPTIC (OSTDS)	Never had a GDO permit	N	FSE located outside a Wellfield Protection Area, AND public sewer not abutting, GDO permit not required	CU Approved, FOG Review Not Required	
		O	FSE located inside a Wellfield Protection Area - NO change in FSE type, NO change in seating, NO change in area, & NO open enforcement. Per MDC Section 24-42.6(6), GDO permit required within 12 months.	Activate FOG Review	FOG review to confirm if the applicant was notified of 12-months to comply with MDC Section 24-42.6(6). To search for the date of the notification -- Go to PEN Database and look for the open task (NumLock T). 1. If not previously notified, provide the applicant the information on MDC Section 24-42.6(6), available online ⁽⁶⁾ . Fill out a FOG Plan Review Tracking Form to open the permit shell, refer the case via e-mail to the inspection group (FOG2@miamidade.gov) AND approve CU. 2. If more than 12-months after the notification As-Built plans signed by PE, to show compliance with MDC Section 24-42.6, FOG Control Device Condition Assessment ^{(2), (3)} , AND GDO permit application required. 3. If the applicant does not comply with the requirements listed under 2), disapprove CU and refer case to inspection group.
		P	FSE located inside a Wellfield Protection Area - Change in FSE type: increased seating capacity, dining area, or drive-thru capacity ⁽⁴⁾ . Per MDC Section 24-42.6(6), GDO permit required within 12 months.	Activate FOG Review	CU not approved. Plans submittal required to comply with MDC Section 24-42.6(6).
New Facility	No GDO permit	Q	Plans approved by DERM-Grease after 2018	Activate FOG Review to Confirm Plans Match GDO Application.	1. Confirm Plans Match GDO Application. 2. DERM FOG construction inspection approval green card required for MUNICIPALITIES. To schedule a DERM FOG construction inspection email iFOG2@miamidade.gov providing the DERM-Grease plan approval process #, the address, folio #, and name and phone # of the contact person who will be on site for the inspection.
		R	NO record of plans approved by DERM-Grease after January 1, 2015	CU NOT approved. Advise applicant that construction plans (BLDG & DERM-Grease) submittal is required.	

NOTES
⁽¹⁾ Increasing square footage, increasing dining area seating (chairs and/or stools), modifying (adding or subtracting) plumbing system, adding or expanding FSE use or drive-thru lanes capacity; or adding, replacing or modifying FOG control devices. Any of these impacts FOG generation and therefore require Engineering FOG review.
⁽²⁾ FOG Control Device (FCD) condition assessment, forms must be signed by PE, or a Certified Plumber
⁽³⁾ Template available at: <https://www.miamidade.gov/environment/fats-oils-grease.asp>
⁽⁴⁾ Condition Assessment valid for 12 months, and not required for new systems for 18 months
⁽⁵⁾ Instructions for sites on Septic and in the WPA, available at: <https://www.miamidade.gov/environment/fats-oils-grease.asp>
⁽⁶⁾ NGT facilities are placed under Status 13, after plans are approved, to indicate that DERM inspection is required.
 OTHER NOTES:
 Any increase or changes will require compliance with MDC Section 24-42.6
 - For Hydromechanical most likely always new plan submittal
 - For Gravity - for existing tanks pH, FODH number, and FDOT precasting may not be required

ALL STATUS 13⁽⁵⁾ and 16 SHALL PROVIDE DERM CONSTRUCTION INSPECTION APPROVAL CARD

Unincorporated Miami-Dade County facilities (folio #s beginning with "30") that have DERM-Grease approved construction plans will be inspected by the Miami-Dade County Building/Plumbing Department



Summary Blocks

FOG 2.0 RER-DERM FOG Control Device (FCD) Installation Inspection

Approval Date:	
Inspector:	
<p>DERM's FCD Installation Inspection Required Prior to Plumbing Final for all <u>Municipal projects</u>. Failure to secure DERM's FCD Installation Inspection will result in disapproval of Final Inspection by the Municipal Building Official, pursuant to Section 24.42-6, MDC Code.</p> <p>To schedule DERM's FCD Installation inspection for Municipal projects please send an email to iFOG2@miamidade.gov, 24 hours prior to desired date. Provide DERM plans process M-number, complete address of the site, folio number, and contact person name and phone number.</p>	

Updated: 4/26/2018

FOG 2.0 RER-DERM Summary Block Hydromechanical FOG Control Device (H-FCD)

Required Information	Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4
Capacity (gpm)				
FOG Load Capacity (lbs) at 99% Efficiency				
Manufacturer				
Model No.				
3 rd Party Certifier (i.e., PDI, CSA, ASME)				
Interceptor Monitoring Alarm Model No.				
Interceptor Monitoring Device Model No.				
Solid Separator manufacturer and model				
Sampling port manufacturer and model				

Updated: 7/21/2020

The FCD, and associated appurtenances on FOG-approved stamped sheets in this set must be installed on site. Equivalent or similar equipment is not accepted by this Division. Should the FOG-approved plan sheets be voided and/or revised, they shall be submitted to the Building Department, and DERM-Grease accordingly for approval.

ALL EQUIPMENT LABELS MUST VISIBLE AT THE TIME OF THE DERM/BUILDING INSPECTION, AND REMAIN VISIBLE THEREAFTER

FOG 2.0 RER-DERM Summary Block Gravity FOG Control Device (G-FCD)

Required Information	Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4
Capacity (gallons)				
DOH Tank Approval No.				
Precast concrete plant name				
FDOT approved precast concrete plant certifying agency (e.g., CCI, PCI, NPCCA)				
Coating or liner type applied by manufacturer for tank materials requiring protection at pH 3				
Interceptor Monitoring Alarm Model No.				
Interceptor Monitoring Device Model No.				
Sampling port manufacturer, and model				

Updated: 7/21/2020

The FCD, and associated appurtenances on FOG-approved stamped sheets in this set must be installed on site. Equivalent or similar equipment is not accepted by this Division. Should the FOG-approved plan sheets be voided and/or revised, they shall be submitted to the Building Department, and DERM-Grease accordingly for approval.

ALL EQUIPMENT LABELS MUST VISIBLE AT THE TIME OF THE DERM/BUILDING INSPECTION, AND REMAIN VISIBLE THEREAFTER



Inspections for FOG Generating Facilities

Presented by:

Jada Lee
Environmental Specialist
Supervisor

FOG Team

Inspection types:

Construction inspections for Municipal projects

Compliance with Permit Conditions and Section 24-42.6 of the Code of Miami-Dade County

Complaints

Investigation of Sewer Overflows due to Grease blockages



Construction Inspections

FOG CONTROL DEVICE (FCD) INSTALLATION INSPECTION



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES
Division of Environmental Resources Management (DERM)
Water and Wastewater Section | 701 NW 1st Court • Miami, FL 33136

DERM PROCESS NO.: _____ DATE: _____ TIME: _____

MUNICIPAL PROCESS/PERMIT NO.: _____

ADDRESS: _____

COMMENTS: _____

INSPECTOR NAME: _____ PHONE NO.: _____

INSPECTOR E-MAIL: _____

SIGNATURE: _____



- **Verify installation of FOG pretreatment systems as per Plans approved by DERM**
- **Installation matching the plans = Approval**

To Request a Construction Inspection

*Only for facilities located within Municipalities

Send an email to iFOG2@miamidade.gov

Please include:

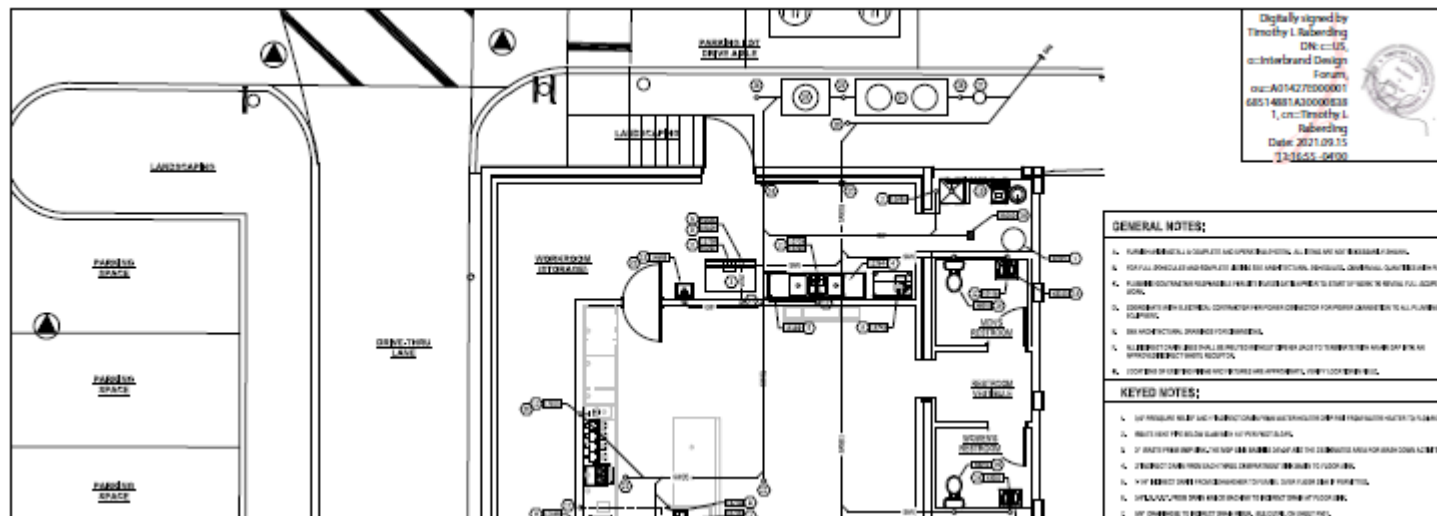
- **Facility address**
- **DERM process number**
- **Contact name/phone number**



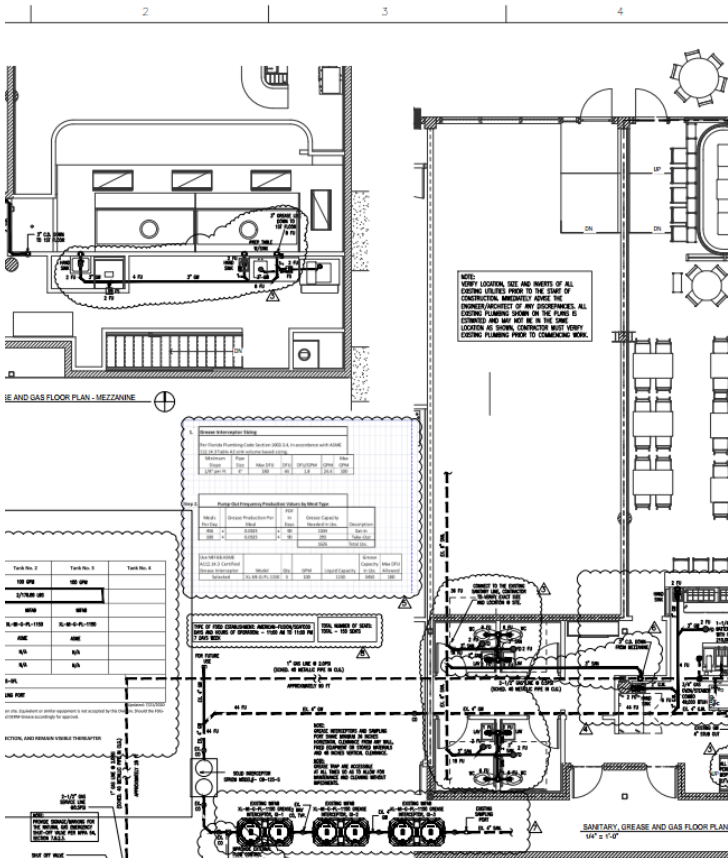
Installation must match the plans



- Solid separators
- Grease interceptors
- Sampling point
- Monitoring Devices
- Location
- Connection of Fixtures
- Accessibility



Be Ready for the Inspection:



- Plans approved by DERM and Plumbing department on site
- Make sure all fixtures are accessible and connected
- Make sure installation matches the plans



Construction Inspections
conducted
January 3, 2022, to April 22, 2022

351

Compliance Inspections

GDO Permits

Permits are not Transferable.

Must be renewed every year (Exp. 12/31)

Are valid only for the address mentioned.

Contain valuable information to facilitate Compliance.

Permit must be posted.

FOG Control Device

- Accessible
- Has a sampling point
- All fixtures are connected
- Matches the one on the GDO Permit
- Maintained as per frequency listed on Permit
- Reporting on eManifest
- Integrity (Breached, rusted?)
- Efficiency of Grease removal (samples)



FOG Control Device Inspections





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Outdoor mop sinks

- **Shall be:**
 - **Connected to the grease interceptor**
 - **Covered or under a roof to prevent rainwater intrusion to the sewers system**

Storm drains & Open Ground

- Storm drains are only for Rainwater
- Keep all storm drains and open ground clean

Outdoor washing impacting storm drains, open ground or canals is prohibited



Employee Training

Every facility shall have one trained person on staff with working knowledge of:

- Grease interceptors
- Kitchen hoods
- Solid separators
- Best management practices
- Yellow grease storage
- Mat and equipment wash down areas
- Record keeping and reporting

GDO PERMITTED FACILITIES

STAFF TRAINING

GDO PERMITTED FACILITIES STAFF TRAINING

This first training certificate has been developed to provide basic training to facilities that require a fats, oils and grease (FOG) discharge control operating permit, known as the GDO permit. It fulfills the minimum requirements for the 2019 permit cycle in compliance with the Miami-Dade County Code, Section 24-42.6.

Beginning on January 1, 2019, each establishment required to maintain a GDO permit must have at least one trained person with knowledge of the operation, maintenance and reporting requirements associated with the FOG control equipment.

This training certificate provides basic information on the operation and maintenance requirements and serves to document the required training, which includes new employee orientation and quarterly training of existing employees.

A - KNOW YOUR SYSTEM

STEP 1

Find your GDO permit and record the permit number below.

Operating Permit Number: GDO - _____



OFFICIAL DOCUMENT

Permit No: GDO-00-2019/2019
Permit Issued To: YOUR FACILITY, LLC
Facility Location: ADDRESS, CITY, FL

STEP 2

Read and understand your GDO permit conditions.

STEP 3

Record the type(s) and model number(s) of your grease interceptor(s) below.

Training Materials can be found at:

<https://www.miamidade.gov/environment/fats-oils-grease.asp>

GDO PERMITTED FACILITIES STAFF TRAINING

This first training certificate has been developed to provide basic training to facilities that require a fats, oils and grease (FOG) discharge control operating permit, known as the GDO permit. It fulfills the minimum requirements for the 2019 permit cycle in compliance with the Miami-Dade County Code, Section 24-42.6.

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A KNOW YOUR SYSTEM

STEP 1

Find your GDO permit and record the permit number below.

Operating Permit Number: GDO - _____



OFFICIAL DOCUMENT

Permit No: GDO-00-2019/2019
Permit Issued To: YOUR FACILITY, LLC
Facility Location: ADDRESS, CITY, FL

STEP 2

Read and understand your GDO permit conditions.

STEP 3

Record the type(s) and model number(s) of your grease interceptor(s) below.

# Units	Model #	Type (H/G)*

*H = Hydromechanical
G = Gravity

STEP 4

From condition #10, of your operating permit, record below the required cleaning/pump out frequency.

Pump out frequency every _____ days

STEP 5

Record here the name and the DERM permit number of the hauler company who services your FOG control device(s).

Hauler: _____
DERM Permit number: LW- _____

B TRAINING MODULES

MODULE 1

What is a Grease Interceptor? (FOG Control Device)

The grease interceptor is the equipment designed to remove/hold fats, oils and grease (FOG) and therefore prevent the FOG from passing to the sewer system, or to the septic tank if your establishment is served by a septic system.



MODULE 2

Grease Interceptor Maintenance

- Clean the grease interceptor(s) at the frequency established in your GDO Permit. Note that more frequent cleaning may be required depending on the operation.
- Cleaning requires full evacuation of the contents of the grease interceptor(s).
- Remember to use a DERM - permitted hauler. List available at: www8.miamidade.gov/apps/rer/LiquidWasteTransporterElectronicManifest/Default.

* Keep records of maintenance for the grease interceptor(s) at the facility for a minimum of one year.

* Every time the grease interceptor(s) is cleaned/pumped out, report electronically the date of the pump out and the name of the hauler. To report go to: www8.miamidade.gov/Apps/RER/GreaseDischargeOperatingReport/Default.

MODULE 3

Kitchen Hoods

Cleaning kitchen hoods, grease filters, and exhaust fans produces significant amounts of grease waste.

Waste generated by manual hood cleaning cannot be flushed/discharged to the sanitary sewer systems or to the septic tank. All wastes must be collected and transported by a liquid waste transporter, permitted by DERM, to an approved disposal facility.

For self-cleaning hoods, the waste must be routed through the grease interceptor(s).



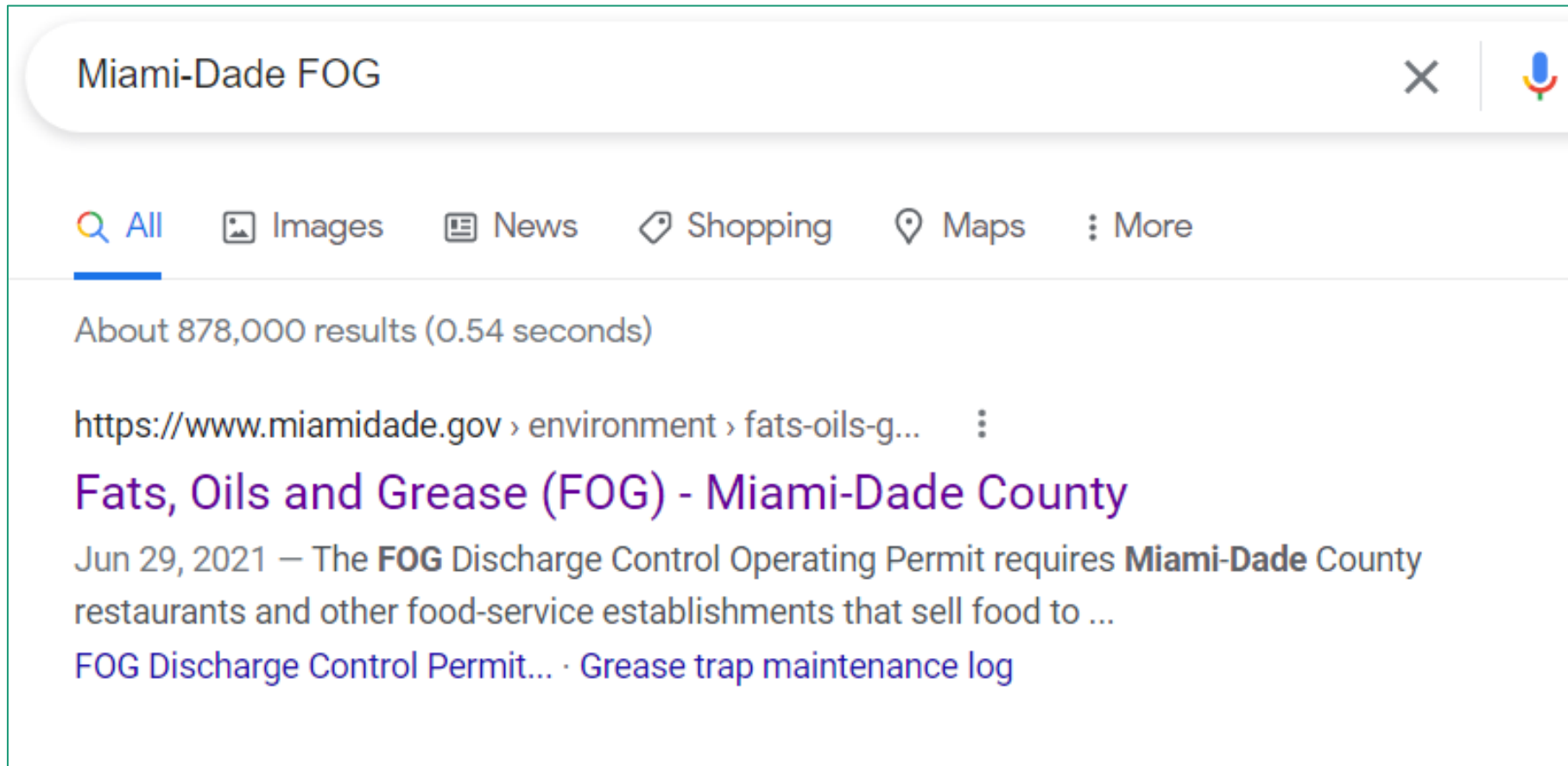
If you have a hood in the kitchen, indicate the type of maintenance (manual or self-cleaning) _____
Cleaning frequency is every _____ days

How to be in Compliance?

- Read your GDO Permit
- Clean the grease interceptor at the frequency established in the GDO permit
- Use a DERM Licensed company to clean your interceptor
- Report cleaning online eManifest (Every time)
- Avoid outdoor washing
- Clean accidental spills immediately
- Train employees on Best Management Practices and grease interceptor maintenance
- Properly dispose of used cooking oil






Resources available on our website:

Search for Miami-Dade FOG:




Miami-Dade FOG

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About 878,000 results (0.54 seconds)

<https://www.miamidade.gov> › environment › fats-oils-g... 

Fats, Oils and Grease (FOG) - Miami-Dade County

Jun 29, 2021 – The **FOG** Discharge Control Operating Permit requires **Miami-Dade** County restaurants and other food-service establishments that sell food to ...

[FOG Discharge Control Permit...](#) · [Grease trap maintenance log](#)

Or follow the link provided below:

<https://www.miamidade.gov/environment/fats-oils-grease.asp>



The screenshot shows the Miami-Dade County website. At the top, there is a navigation bar with links for 'miamidade.gov', 'Government', 'Employees', and 'Calendar'. Below this is a large banner image of a waterfront cityscape with the text 'REGULATORY & ECONOMIC RESOURCES' overlaid. A secondary navigation bar contains 'Home', 'Building', 'Business', 'Environment', and 'Licenses'. Under the 'Environment' section, there is a 'Last Visited' list with 'Fats, Oils and Grease (FOG)' as the first item. A 'ONLINE SERVICES' button is also visible.

Residential

- » [Is your kitchen fat free?](#)

FOG in food-service establishments

- » [FOG Training Information & Printable Form](#)
- » [FSE Guide to Electronic Reporting](#)
- » [FOG Discharge Control Permit & Requirements](#)
- » [Grease trap maintenance log](#)

Architects, Engineers and Contractors

- » [FOG Control Device Guidance Manual](#)
- » [FOG2.5 Plan Submittal Checklist](#)
- » [Existing Gravity FOG Control Device Condition Assessment](#)
- » [Existing Hydromechanical FOG Control Device Condition Assessment](#)
- » [Summary Blocks for all Applications \(Municipal and Unincorporated\)](#)

Liquid Waste Transporter

- » [Did you know?](#)

Changes to Permit Information



Send an email to dermpermits@miamidade.gov including your GDO permit number, notifying us of the changes



Be advised changes to the grease pretreatment system or business name/ownership will require FOG Review and/or CU Review



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Q & A

by:

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We value your Feedback and Participation



Send us topics of interest for future meetings



Do you have specific questions?



Are you interested in becoming a presenter?



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