

Miami-Dade County FOG Control Program

1st Annual FOG Control Program Review Report

June 29, 2018

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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Prepared by: Carlos L. Hernandez, PE

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Authorized by:

Carlos L. Hernandez, PE

Water & Wastewater
Division

Signature



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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 (DEP) 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.

Given that the FCP and FCO were recently approved by EPA and FDEP and the FCO was enacted by the Miami-Dade County Board of County Commissioners in March of this year, insufficient data/trends are available to fully evaluate PMs and KPIs and the overall effectiveness of the FCP and FCO. Therefore, no revisions to the FCP and FCO are proposed at this time.

2. Performance Measures and Key Performance Indicators

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.

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 by September 2019
	FOG Stakeholder Outreach (commercial/industrial)	Outreach	Six (6) Events Annually

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

2.1 Collection System SSOs Primarily Caused by FOG

The total number of SSOs reported by the Utilities has increased by thirty-three percent (33%) for the period 2015 to 2017 (refer to **Chart 1**). This increase might reflect better reporting by Utilities and increase in contractor caused SSOs associated with an increase in construction being experienced in Miami-Dade County. Future Reports will provide a breakdown of SSOs by Utility and cause, including contractor caused SSOs.

The number of SSOs caused by FOG has decreased by 40% for the period 2015 to 2017 (refer to **Chart 1**). This may be attributed to:

1. DERM's focus on Hot Spot inspections, root cause analysis and accompanying enforcement.
2. Miami-Dade Water and Sewer Department's (MDWASD's) use of smart covers at key manholes associated with Hot Spots. MDWASD defines a Hot Spot as a location with three (3) or more SSOs in a period of two (2) years. Smart covers are used to trigger maintenance prior to an SSO. A sample of a MDWASD Hot Spot map and manhole data are included in **Attachment 1**.
3. Municipal Utilities (a.k.a. Volume Sewer Customers) 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. The DERM FOG Inspection Group supervisor reviews these reports and prioritizes inspections accordingly. Samples of Utility Hot Spot reports are included in **Attachment 2**.

The following are some of the areas inspected as a result of Hot Spot reports or complaints by Utilities:

- Aragon Alley, City of Coral Gables
- Giralda Avenue and Miracle Mile, City of Coral Gables
- Lincoln Road, City of Miami Beach
- Bal Harbour Shoppes area, Town of Bal Harbour
- NW 183rd St, between 42nd and 47th Ave
- SW 88th St and 99th Ave (shopping Center)
- SW 40th St and 67th Ave
- SW 117th Ave & 72 St
- SW 1st Ave, between 10th St & 11th St, Brickell
- SE 1st Ave, between 3rd and 4th St, Brickell
- 163rd St Intracoastal Mall
- SW 40th St and 79 St. Shopping center

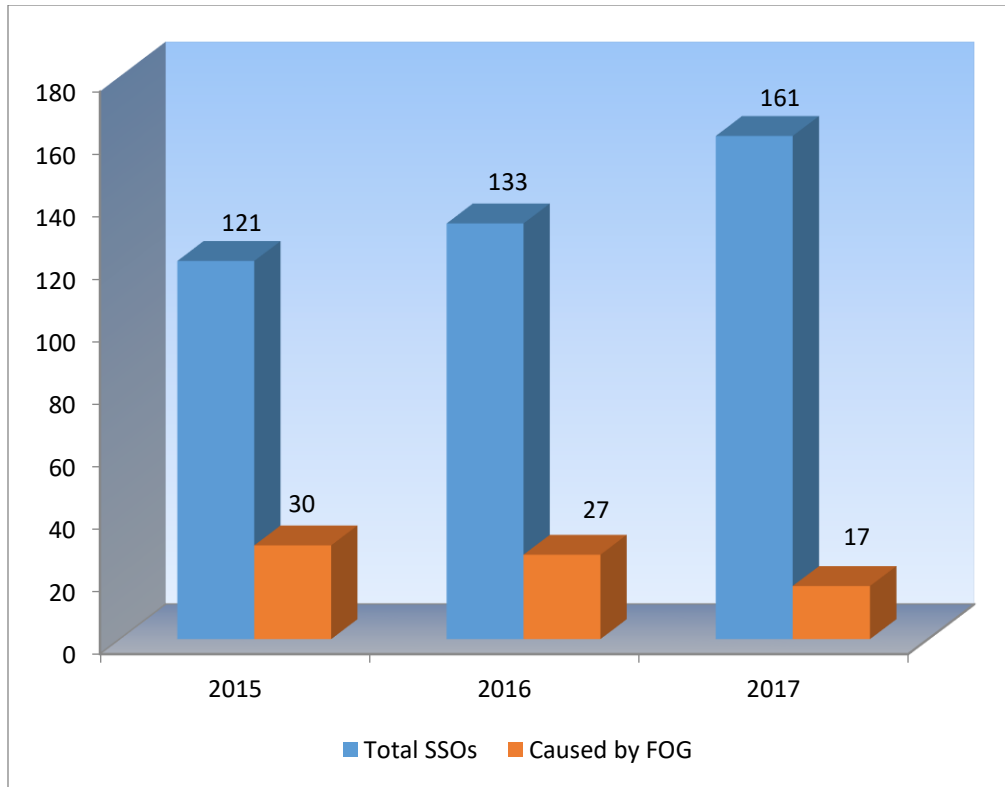


Chart 1: Sanitary Sewer Overflows

2.2 Number of FOG Generators without FOG Control Device

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

The total number of NGI FSEs have decreased from 695 to 155 (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 this year (2018).

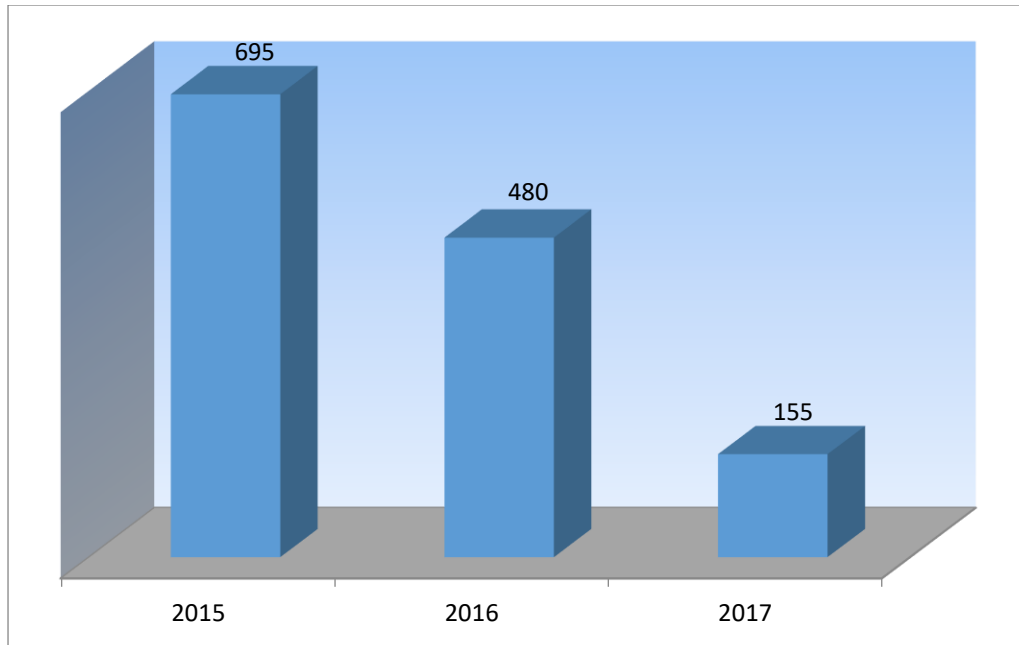


Chart 2: Food Service Establishments without a Grease Interceptor

2.3 FOG Annual Routine Inspections

The number of sites permitted under the Grease Discharge Operating (GDO) operating permit program has been increasing at an average annual rate of approximately four (4) percent (refer to **Chart 3**). This is significant because the EPA/FDEP approved FCP included a staffing level of eight (8) full-time FOG Technicians, four (4) FOG inspectors and two (2) supervisors to perform specific inspection, compliance and enforcement duties based on the anticipated number of GDOs. Recognizing that the number of GDOs would not be stagnant, the FCP included a ratio of one (1) technician/inspector for approximately 700 GDOs (1:700). The current staffing level includes:

- A. Supervisors: One full time and one vacancy. The vacancy is scheduled to be filled in 2018.
- B. FOG Inspectors: Two full time and two (2) vacancies. The vacancies are scheduled to be filled in 2018.
- C. FOG Technicians: Six (6) full time and two (2) vacancies. The vacancies are scheduled to be filled in 2018.

The current total number of filled technician and inspector positions (i.e., excluding unfilled vacancies) is eight (8) full time employees. This supports 5,600 GDO annual routine inspections, which is less than the number of active GDOS: ± 7,159. However, including approved unfilled vacancies, a staff of twelve (12) full time employees (technicians and inspectors) support approximately 8,400 GDO annual routine inspections. Therefore, based on the staffing level for 2018 (including vacancies being filled this year) and assuming 7,445 GDOs (7,159 x 104%),

staffing should be sufficient to meet the goal in the FCP of initiating routine inspections of all GDOs at a frequency of one (1) inspection per year (i.e., annual inspections) by September 2019.

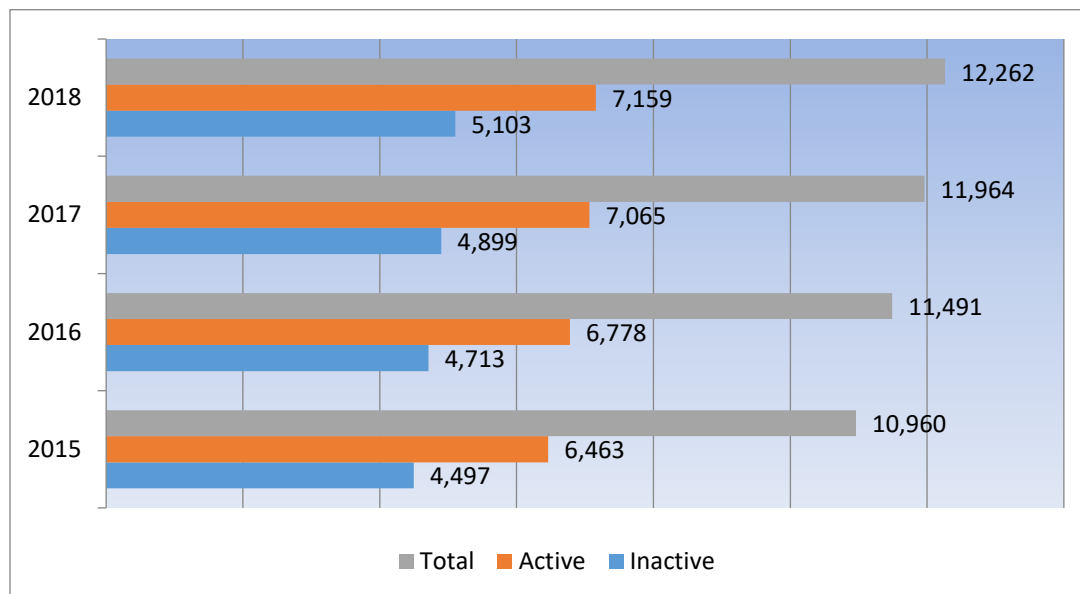


Chart 3: Number of Grease Discharge Operating Permits

While this remains a goal, the current demand for inspections, compliance assistance, technical support and enforcement associated with Hot Spots suggest that this goal may not be achievable without reducing the focus on Hot Spots. Moreover, shifting resources from Hot Spots to routine inspection by September 2019 may not be more effective and may not result in greater reductions of FOG discharges to the WCTTS.

DERM will continue to address Hot Spots and further assess the goal of initiating routine inspections of all GDOs annually by September 2019 in the next Report (June 2019). The June 2019 Report will also include a more detailed evaluation of overall staffing resources as more data becomes available for construction, liquid waste transporter and disposal facility inspections.

2.4 FOG Plan and Certificate of Use Reviews

An indicator of future GDO increases (or declines) is the number of plan and certificate of use submittals. From 2015 to 2017, plan submittals have increased by sixty (60) percent (refer to **Chart 4**). For the same period, the number of certificate of use applications have increased by 190 percent (refer to **Chart 4**). If the current trend continues, staffing resources will need to be adjusted accordingly to maintain an effective FCP. These indicators and number of GDOs will be tracked to regularly evaluate staffing and equipment needs.

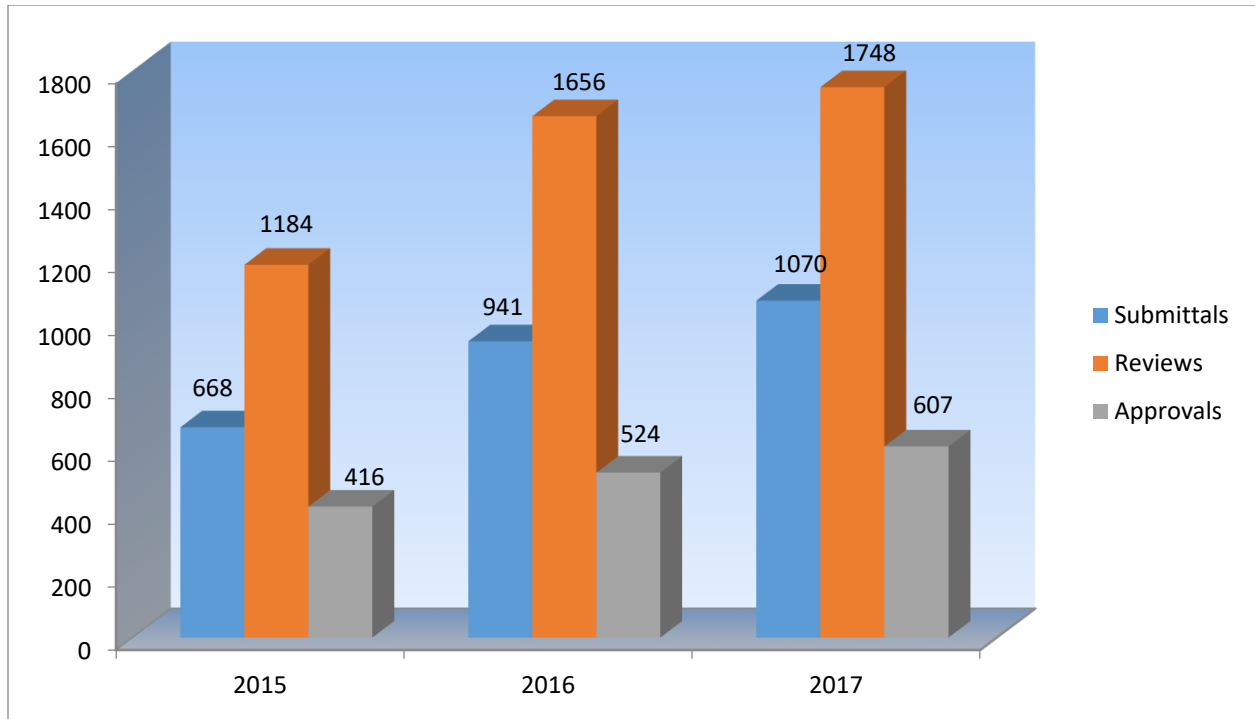


Chart 4: FOG Engineering Reviews

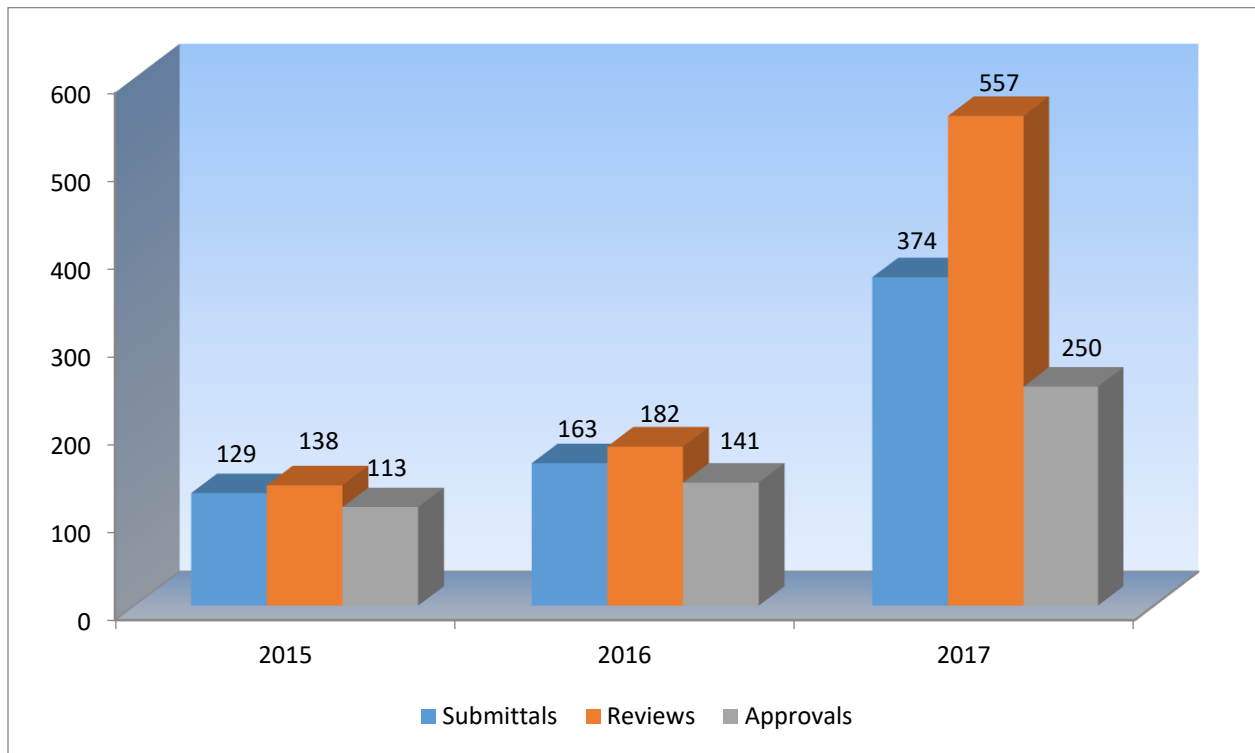


Chart 5: Occupational License, Certificate of Use Reviews

2.5 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. On or before September 2019, DERM will initiate residential public education events to meet or exceed the FCP target of six (6) events per year.

YEAR	NUMBER OF STAKEHOLDER OUTREACH EVENTS
2014	15
2015	20
2016	18
2017	12
2018	8

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
- One Volume Sewer Customer (Municipal Utility) selected at the 8th Utility Round Table meeting: City of Coral Gables

The committee meeting was held on June 13, 2018. The presentation and meeting materials are included in **Attachment 3**.

The committee also reviewed the progress made by DERM to implement the following requirements.

FOG Implementation Schedule		
Requirement	Requirement or Goal Date	Status
No Commingling of FOG and septage	<i>April 1, 2017</i>	Implemented
DERM to make training materials available for FOG generators (e.g., food service establishments), liquid waste transporters and FOG disposal facilities	<i>February 21, 2019</i>	Pending
DERM to implemented an electronic disposal manifest system, replacing the paper based system implemented April 1, 2015	<i>April 1, 2017</i>	Implemented
DERM to perform compliance assistance visits to active FSEs to promote awareness of the requirement to report electronically	<i>October 10, 2017</i>	Implemented
Require FSEs to utilize eManifest system (date the grease interceptor was pumped out and the name of the Liquid Waste Transporter).	<i>January 1, 2018</i>	Implemented
DERM to finalize procedures and checklist for Construction Inspections to be performed by RER.	<i>January 30, 2018</i>	Implemented
Guidelines for the Monthly Hot Spots Report will be made available to the Utilities.	<i>January 30, 2018</i>	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).	<i>March 5, 2018</i>	Implemented
Monthly Hot Spots Report will be submitted by the Utilities per requirements in Section 24-42.6(13)	<i>March 5, 2018</i>	Implemented
Compliance Inspections to FSEs will be conducted annually.	<i>September 30, 2019</i>	Pending
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.	<i>January 1, 2019</i>	Pending

After reviewing and discussing PMs and KPIs, the committee made recommendations which were captured in the committee input matrix (refer to **Attachment 4**). The input matrix addressed:

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?

For Utilities, the No. 1 FOG Concern remains preventing SSOs and service interruptions. For DERM staff, the main concerns are improving communication and better educating stakeholders (e.g., engineers and business owners). With regards to PMs/KPIs, all agreed that existing PMs/KPIs are good measures and need not change at this time.

The committee had no recommendations at this time concerning the implementation schedule.

4. Proposed FCP and FCO Revisions

At this time there are no proposed revisions to the FCP or FCO. DERM will continue to evaluate the FCP and FCO regularly and any revisions to either will be submitted to the EPA and FDEP for review and approval.

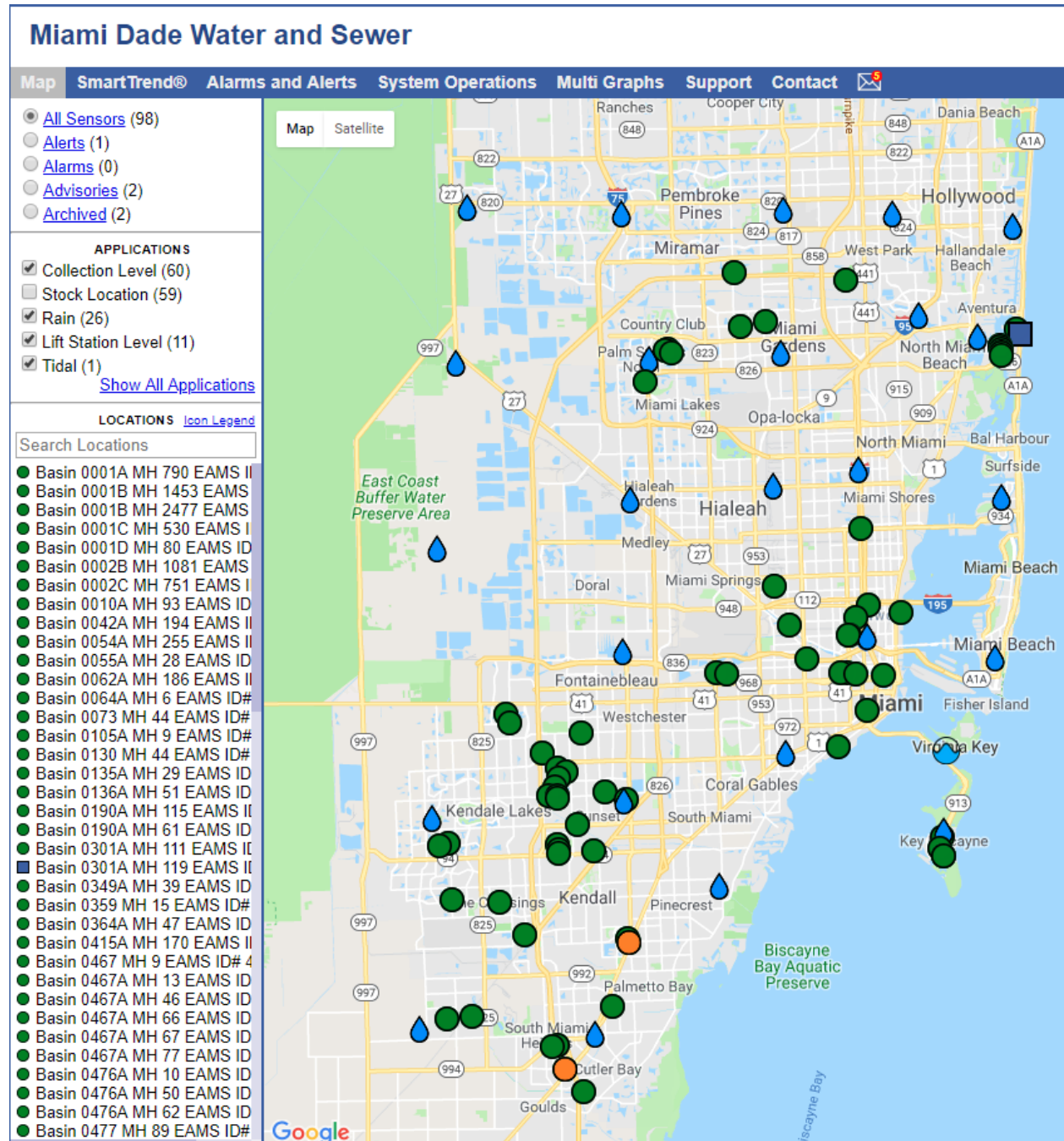
5. Conclusions

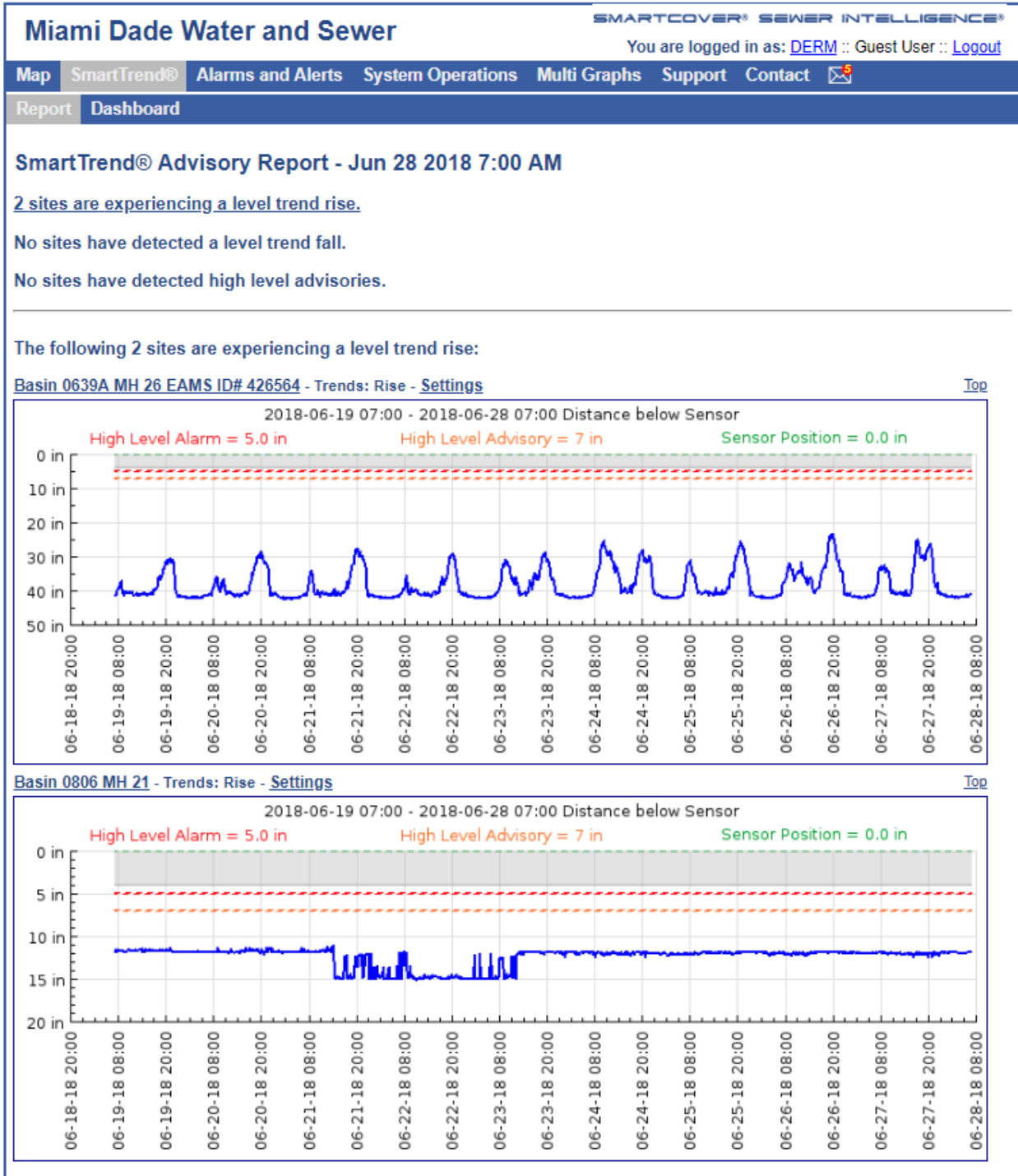
DERM implemented the FCP to reduce FOG discharges to the WCTTS and thereby reduce FOG related SSOs. While the FCP and FCO have only recently been approved, DERM has made great progress improving key functions: Design/Review, Compliance/Construction Inspections, FOG Manifesting (i.e., eManifest) and Outreach. We will continue to make progress implementing the FCP and enforcing the FCO, and when applicable, propose changes to the EPA and FDEP.

ATTACHMENTS

ATTACHMENT 1

MDWASD Smart Cover Map & Details





ATTACHMENT 2

Utilities Hot Spot Reports

FOG Accelerated Maintenance Report

UTILITY	Report date	Activity (Y/N)	# of Incidents	Labor	Equipment	Materials/Supplies	TOTAL
02-Miami Beach	06/14/18	Y	37	\$2,762	\$3,565		\$6,327
03-Coral Gables	06/20/18	Y	12	\$2,400	\$1,992	\$1,008	\$5,400
04-Hialeah							\$0
06-North Miami	06/14/18	Y	21	\$3,632	\$884	\$0	\$4,516
07-North Miami Beach	06/01/18	Y	2	\$338	\$332	\$0	\$670
08-Opa Locka	06/13/18	N	0	\$0	\$0	\$0	\$0
10-Homestead							\$0
12-Balharbour Village	06/04/18	N	0	\$0	\$0	\$0	\$0
13-Bay Harbour Islands	06/06/18	N	0	\$0	\$0	\$0	\$0
14-Surfside	06/07/18	N	0	\$0	\$0	\$0	\$0
15-West miami							\$0
16-Florida City							\$0
22-Medley	06/08/18	N	0	\$0	\$0	\$0	\$0
23-North Bay Village	06/14/18	N	0	\$0	\$0	\$0	\$0
27-Hialeah Gardens	06/12/18	N	0	\$0	\$0	\$0	\$0
30-WASD	06/14/18	Y	22	\$21,300	\$24,500		\$45,800
77-University of Miami							\$0
88-Airport	06/14/18	N	0	\$0	\$0	\$0	\$0
TOTALS				\$30,432	\$31,273	\$1,008	\$62,713

Accelerated FOG Maintenance (aFOG) Report
MDC Code Section 24-42.6(13)

Utility Name: City of Miami Beach
Month Reported: 05/01/18
Completed by: Kristina Nunez

Utility Code	Date of Maintenance mm/dd/yyyy	Maintenance Location (address)	ZIP code	Latitude	Longitude	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 No. ⁵	Disposal Ticket No. ⁵	Maintenance Cost Labor	Maintenance Cost ⁶ Equipment	Maintenance Cost ⁶ Materials/Supplies	Total Maintenance Cost	Event Id (DERM use only)
2	05/01/18	634 Jefferson Avenue	33139	939978.91	825375.68	FOG & Rags (FROG)	SWR47374	SWR47374	200	Hydro Jetting		2,100	372	284360	\$ 17.23	\$ 32.25	\$ 49.48	243221634 Jefferson Avenue	
2	05/07/18	6970 Collins Avenue	33141	945346.64	854159.28	Other	SWR43892	SWR41569	35	Hydro Jetting		350	372	285012	\$ 61.63	\$ 64.50	\$ 126.13	2432276970 Collins Avenue	
2	05/07/18	490 South Shore Drive	33141	940506.15	854364.40	Other	SWR23431	SWR23431	30	Hydro Jetting		350	372	285012	\$ 15.07	\$ 32.25	\$ 47.32	243227460 South Shore Drive	
2	05/07/18	1300 Lincoln Road	33139	938244.18	830360.04	FOG	SWR17815	SWR17815	40	Hydro Jetting		350	372	285012	\$ 15.07	\$ 32.25	\$ 47.32	2432271300 Lincoln Road	
2	05/07/18	736 Ocean Drive	33139	941947.53	825747.28	FOG	SWR43523	SWR43524	30	Hydro Jetting	Bleach	350	372	285012	\$ 142.09	\$ 129.00	\$ 271.09	243227736 Ocean Drive	
2	05/07/18	911 80TH Street	33141	942846.43	857977.92	FOG & Rags (FROG)	SWR41256	SWR41257	30	Hydro Jetting		350	372	285012	\$ 43.70	\$ 64.50	\$ 108.20	243227911 80TH Street	
2	05/09/18	1800 Meridian Avenue	33139	940123.64	831712.93	FOG	SWR46641	SWR46641	512	Hydro Jetting		350	372	285012	\$ 15.07	\$ 96.75	\$ 111.82	2432291800 Meridian Avenue	
2	05/11/18	500 South Pointe Drive	33139	940904.55	822296.31	FOG	SWR43989	SWR43298	160	Hydro Jetting		625	372	285223	\$ 203.01	\$ 290.25	\$ 493.26	243231500 South Pointe Drive	
2	05/12/18	1644 Meridian Avenue	33139	-11450577	7617076.69	FOG	SWR22686	SWR22686	30	Hydro Jetting		625	372	285223	\$ 17.13	\$ 32.25	\$ 49.38	2432321644 Meridian Avenue	
2	05/12/18	7955 Harding Avenue	33141	944885.91	857587.19	FOG	SWR44052	SWR41442	1,859	Hydro Jetting		625	372	285223	\$ 168.53	\$ 161.25	\$ 329.78	243232955 Harding Avenue	
2	05/13/18	7118 Collins Avenue	33141	945319.26	854515.97	FOG	SWR26279	SWR26279	40	Hydro Jetting		625	372	285223	\$ 52.65	\$ 64.50	\$ 117.15	2432337118 Collins Avenue	
2	05/14/18	1811 Purdy Avenue	33139	937772.69	831691.59	FOG	SWR43054	SWR43057	40	Hydro Jetting		233	372	286000	\$ 59.01	\$ 64.50	\$ 123.51	2432341811 Purdy Avenue	
2	05/15/18	1400 W 27TH Street	33140	942750.34	8534780.61	FOG & Roots	SWR19455	SWR47319	1	Pipe replaced due to grease solidified		233	372	286000	\$ 183.96	\$ 151.40	\$ 335.36	24323437118 Collins Avenue	
2	05/16/18	1811 Purdy Avenue	33139	937772.69	831691.59	FOG	SWR43054	SWR43057	40	Hydro Jetting		233	372	286000	\$ 150.81	\$ 223.75	\$ 374.56	2432361811 Purdy Avenue	
2	05/17/18	1811 Purdy Avenue	33139	937772.69	831691.59	FOG	SWR43054	SWR43057	40	Hydro Jetting		233	372	286000	\$ 120.64	\$ 179.00	\$ 299.64	2432371811 Purdy Avenue	
2	05/18/18	1717 Collins Avenue	33139	942546.66	831331.03	FOG	SWR26600	SWR26600	40	Hydro Jetting	Bleach	233	372	286000	\$ 62.88	\$ 81.00	\$ 143.88	2432381717 Collins Avenue	
2	05/20/18	29TH Street & Collins Avenue	33140	944048.46	853792.35	FOG	SWR42387	SWR42387	800	Hydro Jetting		233	372	286000	\$ 64.91	\$ 64.50	\$ 129.41	24324029TH Street & Collins Avenue	
2	05/21/18	4 South Shore Drive	33141	942356.22	855077.64	FOG	SWR24385	SWR24385	40	Hydro Jetting		233	372	286000	\$ 8.56	\$ 16.13	\$ 24.69	2432414 South Shore Drive	
2	05/21/18	985 Bay Drive	33141	942750.34	853348.08	FOG	SWR41816	SWR41826	120	Hydro Jetting		233	372	286000	\$ 21.86	\$ 32.25	\$ 54.11	243241985 Bay Drive	
2	05/21/18	765 Lenox Avenue	33139	939412.54	825962.76	FOG	SWR27569	SWR27569	40	Hydro Jetting		236	372	286000	\$ 8.56	\$ 16.13	\$ 24.69	243241765 Lenox Avenue	
2	05/22/18	901 6TH Street	33139	94080.75	825149.16	FOG	SWR43447	SWR43444	225	Hydro Jetting		300	372	286087	\$ 30.45	\$ 64.50	\$ 94.95	243242901 6TH Street	
2	05/22/18	6356 Lagorce Drive	33140	943265.57	850207.05	FOG	SWR41914	SWR41911	646	Hydro Jetting		300	372	286087	\$ 30.45	\$ 64.50	\$ 94.95	2432426356 Lagorce Drive	
2	05/23/18	1715 Calais Drive	33141	939462.99	853601.12	FOG	SWR46041	SWR46041	300	Hydro Jetting		300	372	286087	\$ 22.74	\$ 42.57	\$ 65.31	2432437115 Calais Drive	
2	05/23/18	5441 Alton Road	33140	942721.99	854645.45	FOG	SWR41947	SWR41945	1,565	Hydro Jetting		300	372	286087	\$ 165.15	\$ 361.95	\$ 527.10	2432435441 Alton Road	
2	05/24/18	350 84TH Street	33141	944419.29	859940.52	FOG	SWR41417	SWR41450	40	Hydro Jetting		300	372	286087	\$ 22.63	\$ 44.75	\$ 67.38	243244350 84TH Street	
2	05/24/18	Meridian Avenue & North Lincoln Road	33139	940262.99	830718.94	FOG	SWR47694	SWR49495	4,013	Hydro Jetting		300	372	286087	\$ 289.36	\$ 324.00	\$ 613.36	243244Meridian Avenue & North Lincoln Road	
2	05/25/18	809 Lincoln Road	33139	940191.63	830562.58	FOG	SWR42545	SWR42546	900	Hydro Jetting		300	372	286087	\$ 30.16	\$ 44.75	\$ 74.91	243245809 Lincoln Road	
2	05/25/18	4335 Alton Road	33140	940079.05	840068.12	FOG	SWR42192	SWR42193	630	Hydro Jetting		210	372	286059	\$ 60.32	\$ 89.50	\$ 149.82	2432454335 Alton Road	
2	05/25/18	Meridian Avenue & North Lincoln Road	33139	940262.99	830718.94	FOG	SWR47694	SWR49495	1,132	Hydro Jetting		210	372	286059	\$ 289.36	\$ 324.00	\$ 613.36	243245Meridian Avenue & North Lincoln Road	
2	05/26/18	49 Collins Avenue	33139	941220.83	822739.30	FOG	SWR48532	SWR48532	140	Hydro Jetting		210	372	286059	\$ 65.55	\$ 64.50	\$ 130.05	24324649 Collins Avenue	
2	05/27/18	1542 Washington Avenue	33139	941731.84	829736.43	FOG	SWR44497	SWR43564	50	Hydro Jetting		210	372	286059	\$ 60.32	\$ 89.50	\$ 149.82	2432471542 Washington Avenue	
2	05/27/18	7945 Harding Avenue	33141	944890.42	857580.57	FOG	SWR44052	SWR41442	200	Hydro Jetting		210	372	286059	\$ 61.94	\$ 64.50	\$ 126.44	2432477945 Harding Avenue	
2	05/28/18	7291 Gary Avenue	33141	943195.63	855031.01	FOG	SWR25906	SWR25906	40	Hydro Jetting		210	372	286059	\$ 17.52	\$ 32.25	\$ 49.77	2432487291 Gary Avenue	
2	05/30/18	1775 Collins Avenue	33139	942935.13	831667.11	FOG	SWR45383	SWR45383	200	Hydro Jetting		210	372	286059	\$ 36.17	\$ 40.50	\$ 76.67	2432501775 Collins Avenue	
2	05/30/18	7434 Harding Avenue	33141	944709.58	855853.47	FOG	SWR41512	SWR41478	26	Hydro Jetting		210	372	286059	\$ 19.71	\$ 36.00	\$ 55.71	2432507434 Harding Avenue	
2	05/31/18	1854 Bay Road	33139	937878.41	831774.56	FOG	SWR43059	SWR43059	1	Hydro Jetting		210	372	286059	\$ 7.54	\$ 16.13	\$ 23.67	2432511854 Bay Road	
2	05/31/18	160 South Shore Drive	33141	941414.50	854941.65	FOG & Rags (FROG)	SWR41628	SWR41627	30	Hydro Jetting		210	372	286059	\$ 30.17	\$ 32.25	\$ 62.42	243251160 South Shore Drive	
7	05/13/18	17751 NW 27 AVE	33056	25.94	80.25	FOG & Rags (FROG)	75D	75E	250	Hydro Jetting	none	30	423	284289	\$ 202.83	\$ 165.50	\$ 368.33	74323317751 NW 27 AVE	
7	05/23/18	18731 NW 24 AVE	33056	25.95	80.24	FOG & Rags (FROG)	738	739	300	Hydro Jetting	none	30	423	285764	\$ 135.22	\$ 165.50	\$ 300.72	74324318731 NW 24 AVE	
30	05/01/18	Eastern Shore	33160	939663.91	852937.68	FOG	Full Basin	Full Basin	21,520	Hydro Jetting	Reducer			\$ 2,400.00	\$ 3,200.00	\$ 5,600.00	3043221.677083333Eastern Shore		
30	05/03/18	12530 Sw 104 Ter	33186	854148.48	846494.14	FOG	0872-A-028	0872-A-028	N/A	Other	N/A			\$ 900.00	\$ 700.00	\$ 1,600.00	3043223.52916666712530 Sw 104 Ter		
30	05/05/18	Nw 36 Ave & Nw 18 Terr	33125	901686.62	801686.62	FOG	0081-A-004	0081-A-002	270	Hydro Jetting	Reducer			\$ 1,000.00	\$ 700.00	\$ 1,700.00	3043225.8215277778Nw 36 Ave & Nw 18 Terr		
30	05/07/18	P/S 375	33056	902435.04	858340.70	FOG	Full Basin	Full Basin	9,800	Hydro Jetting	Reducer			\$ 400.00	\$ 500.00	\$ 900.00	3043227.4402777778P/S 375		
30	05/07/18	P/S 372	33055	897061.57	854984.95	FOG	Full Basin	Full Basin	10,170	Hydro Jetting	Reducer			\$ 300.00	\$ 500.00	\$ 800.00	3043227.6875 P/S 372		
30	05/09/18	Nw 7th Ave & Nw 15 Th Street	33136	917133.08	829962.71	FOG	0007-A-007	0007-A-007	N/A	Other	N/A			\$ 500.00	\$ 300.00	\$ 800.00	3043229Nw 7th Ave & Nw 15 Th Street		
30	05/10/18	500 Nw 36th St	33127	918238.26	818238.26	FOG	0002-C-129	0002-C-732	290	Hydro Jetting	Reducer			\$ 500.00	\$ 600.00	\$ 1,100.00	3043230.6875500 Nw 36th St		
30	05/11/18	P/S 338	33014	884816.28	877962.33	FOG	Full Basin	Full Basin	10,050	Hydro Jetting	Reducer			\$ 900.00	\$ 1,300.00	\$ 2,200.00	3043231.5506944444P/S 338		
30	05/16/18	300 Sw 22Nd Rd	33129	917811.46	817811.46	FOG	0001-C-133	0001-C-132	310	Hydro Jetting	Reducer			\$ 200.00	\$ 200.00	\$ 400.00	3043236.6875300 Sw 22Nd Rd		
30	05/16/18	8461 Sw 38 St	33155	875646.81	809782.59	FOG	0757-A-52	0757-A-52	N/A	Other	N/A			\$ 900.00	\$ -	\$ 900.00	3043236.7277777788461 Sw 38 St		
30	05/17/18	8460 Nw 186 St	33015	873895.00	873895.00	FOG	0380-A-008	0380-A-006	240	Hydro Jetting	Reducer			\$ 3,200.00	\$ 3,400.00	\$ 6,600.00	3043237.6458333338460 Nw 186 St		
30	05/18/18	P/S 401	33015	887198.31	851020.25	FOG	Full Basin	Full Basin	8,170	Hydro Jetting	Reducer			\$ 1,400.00	\$ 2,100.00	\$ 3,500.00	3043238.583333333P/S 401		
30	05/21/18	Sw 108 St Cr S	33186	849904.77	849904.77	FOG	0876-A-001	Wet Well	50	Hydro Jetting	Reducer			\$ 700.00	\$ 700.00	\$ 1,400.00	3043241.3875Sw 108 St Cr S		
30	05/22/18	11620 Sw 214th St	33189	860358.33	860358.33	FOG	1115-A-007	1115-A-002	130	Other	N/A			\$ 700.00	\$ 900.00	\$ 1,600.00	304324211620 Sw 214th St		
30</																			

ATTACHMENT 3

1st FOG Control Program Review Committee Meeting Materials



MDC – FOG Control Program Annual Review June 13, 2018

Water and Wastewater Permitting Section
Department of Regulatory and Economic Resources (RER)
Division of Environmental Resources Management (DERM)

AGENDA

First Annual FOG Control Program Review

Date : June 13, 2018

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- **Participants:**

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- Elsa Cabrejo (DERM Water and Waste Water Permitting Section)
- Juan Bedoya (WASD)
- Jorge Acevedo, City of Coral Gables (Municipal Utility)

- **Today's Meeting Objectives**
- **DERM Requirements Under EPA Consent Decree Case: No. 1:12-cv-24400-FAM**
- **FOG Control Program Key Performance Indicators (KPI)**
- **Committee members comments**
- **Schedule date for next meetings**

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- **Long Term & Today's Meeting Objectives**

- DERM Requirements Under EPA Consent Decree Case: No. 1:12-cv-24400-FAM
- FOG Control Program Key Performance Indicators (KPI)
- Committee members comments
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Long Term & Today's Meeting Objectives

- Evaluate/measure the FOG Control Program's Effectiveness using Performance Measures (PMs) and Key Performance Indicators (KPIs).
- Evaluate FOG inspection compliance and compliance assistance effectiveness in reducing wastewater collection and transmission system blockages and sanitary sewer overflows (SSOs).
- ***Allocate/Re-allocate resources to maximize effectiveness.***

Long Term & Today's Meeting Objectives

- Discuss how Performance Measures (PMs) and Key Performance Indicators (KPIs) will be measured, tracked, and evaluated.
- Discuss how each participant (e.g., WASD, Coral Gables, ...) will participate.
- Discuss how we will ***Allocate/Re-allocate resources to maximize effectiveness.***

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- FOG Control Program Key Performance Indicators (KPI)
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DERM Requirements Under EPA Consent Decree Case: No. 1:12-cv-24400-FAM

[DERM Requirements under New CD](#)

AGENDA

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- Participants:

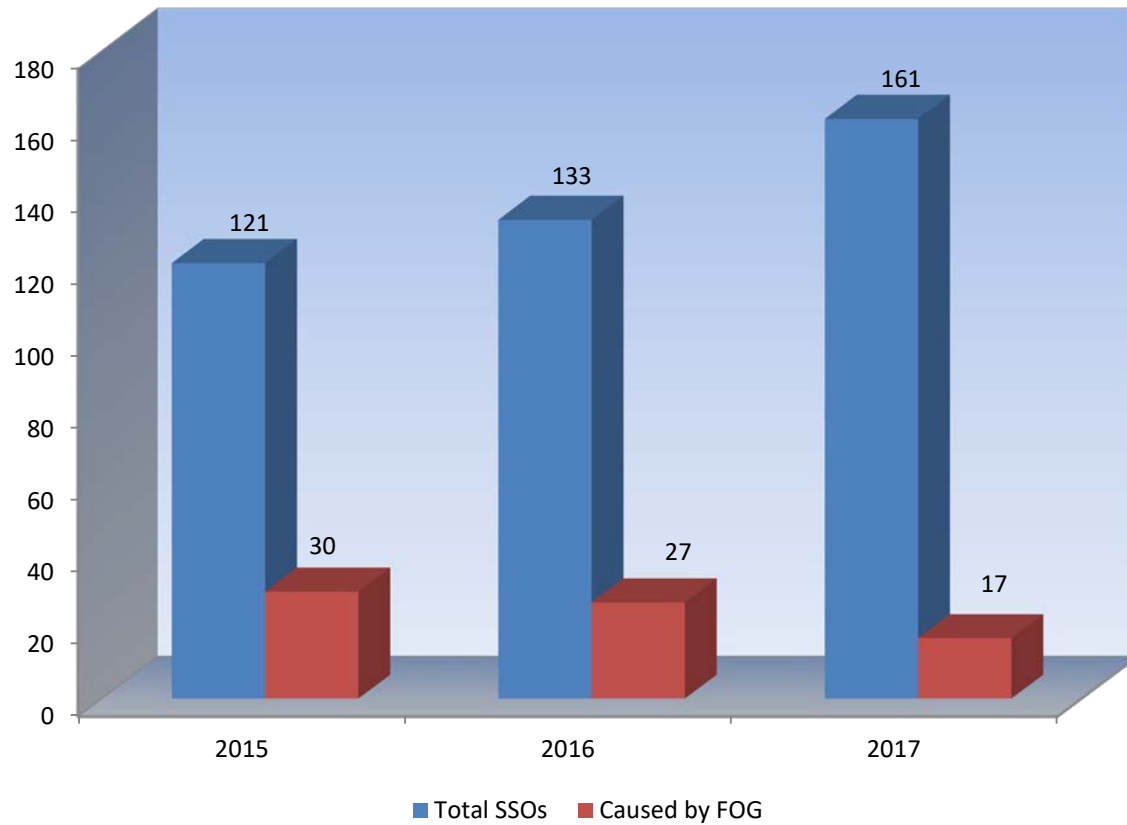
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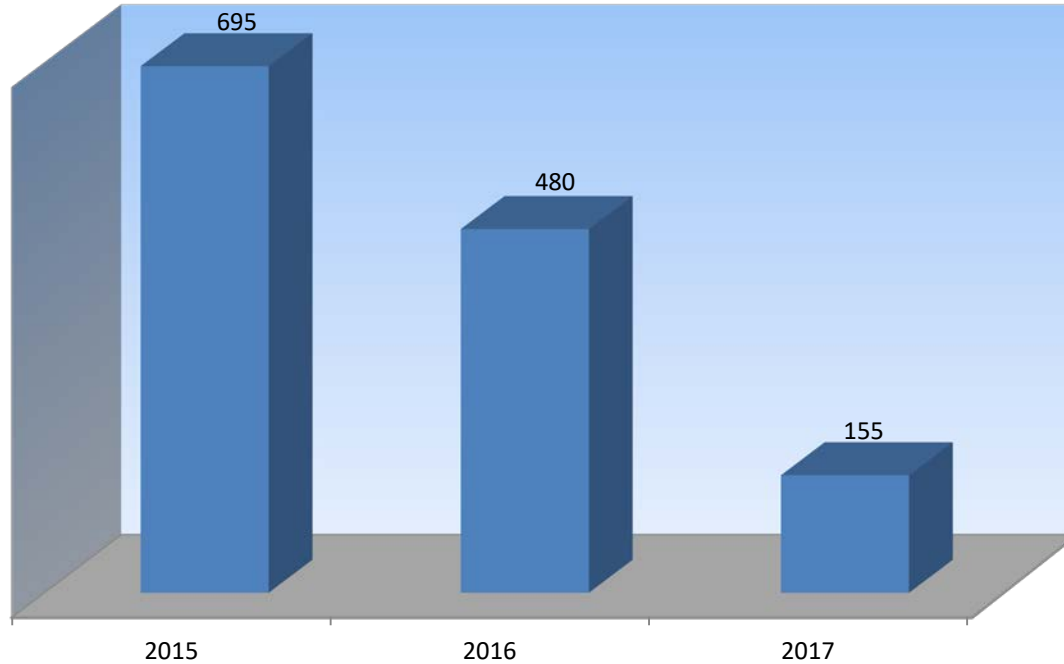
Key Performance Indicators (KPI)

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
	FOG Stakeholder Outreach (commercial/industrial)	Outreach	Six (6) Events Annually

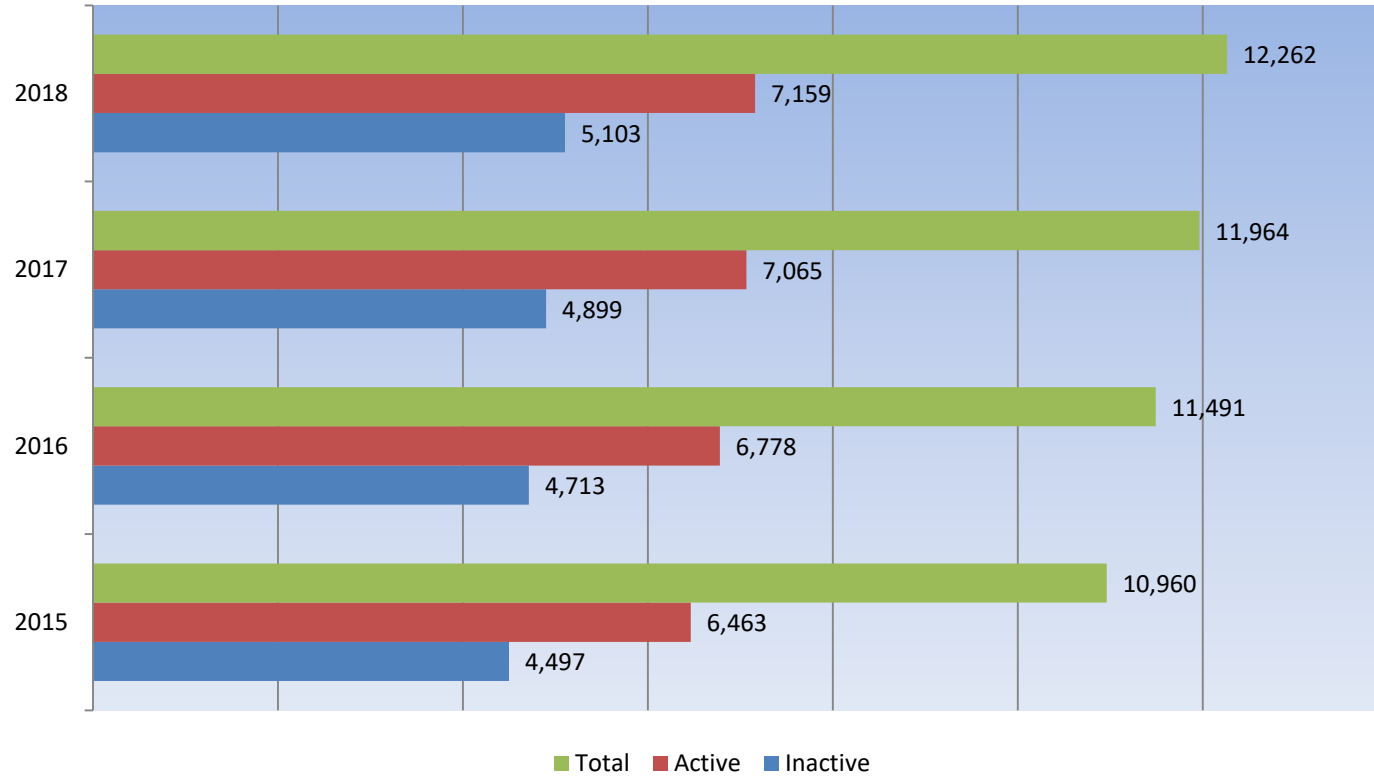
SSOs



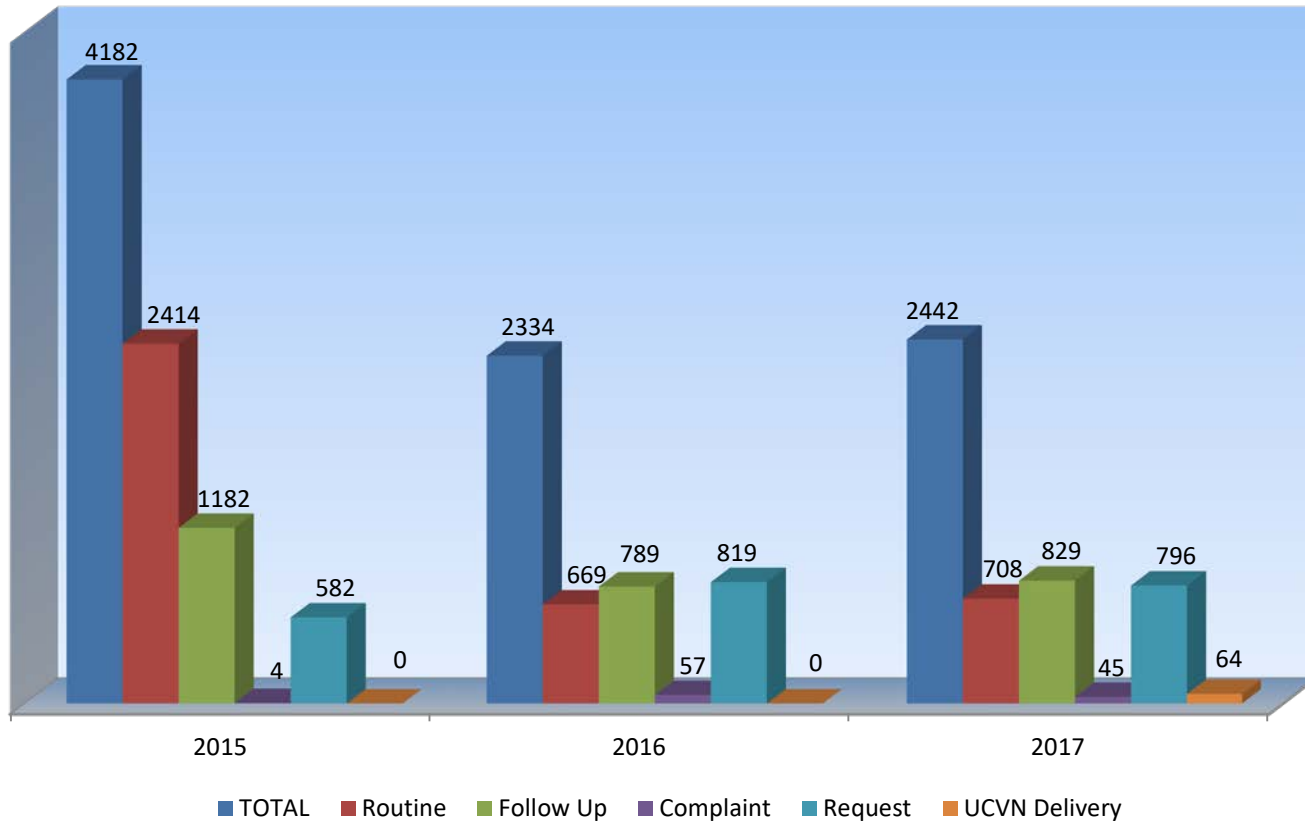
NUMBER OF FOG GENERATORS WITHOUT FOG CONTROL DEVICE (NGTs)



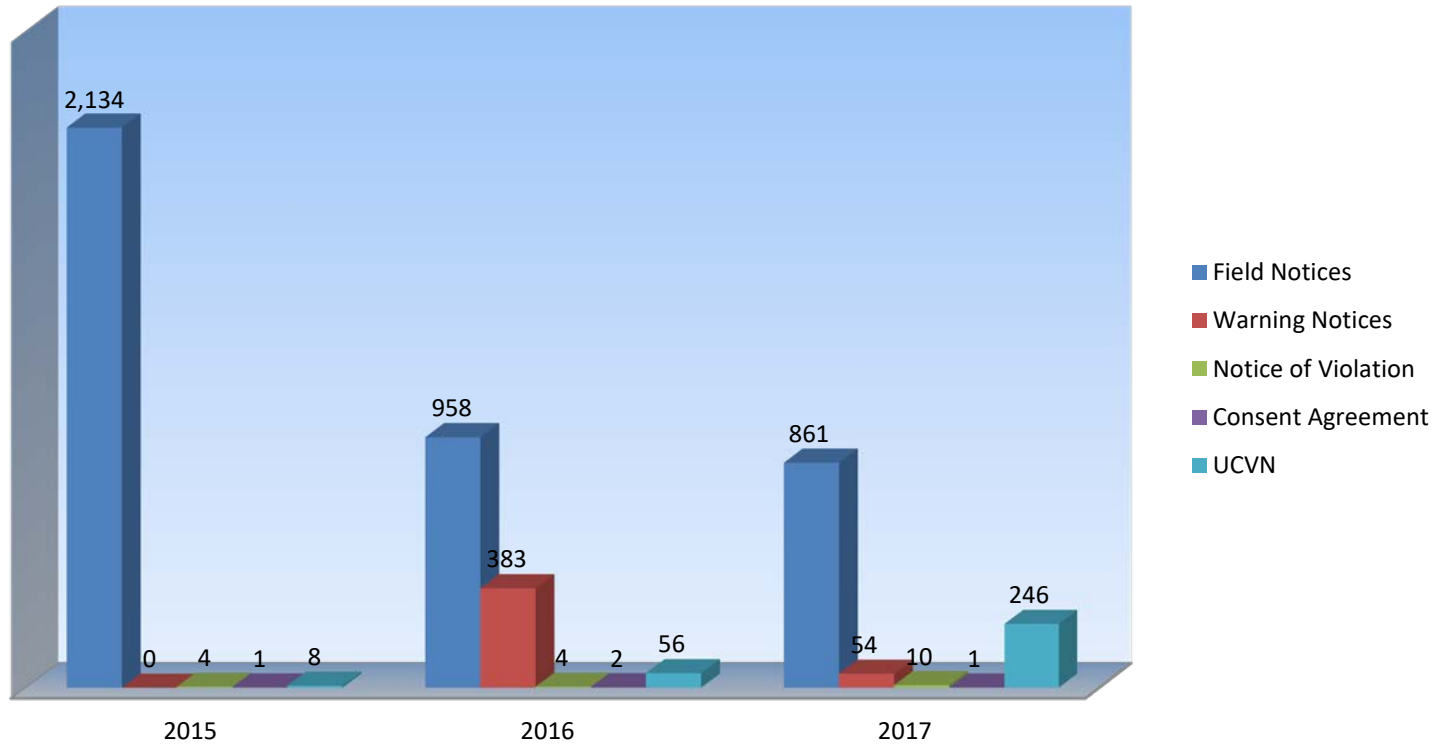
NUMBER OF GDO SITES



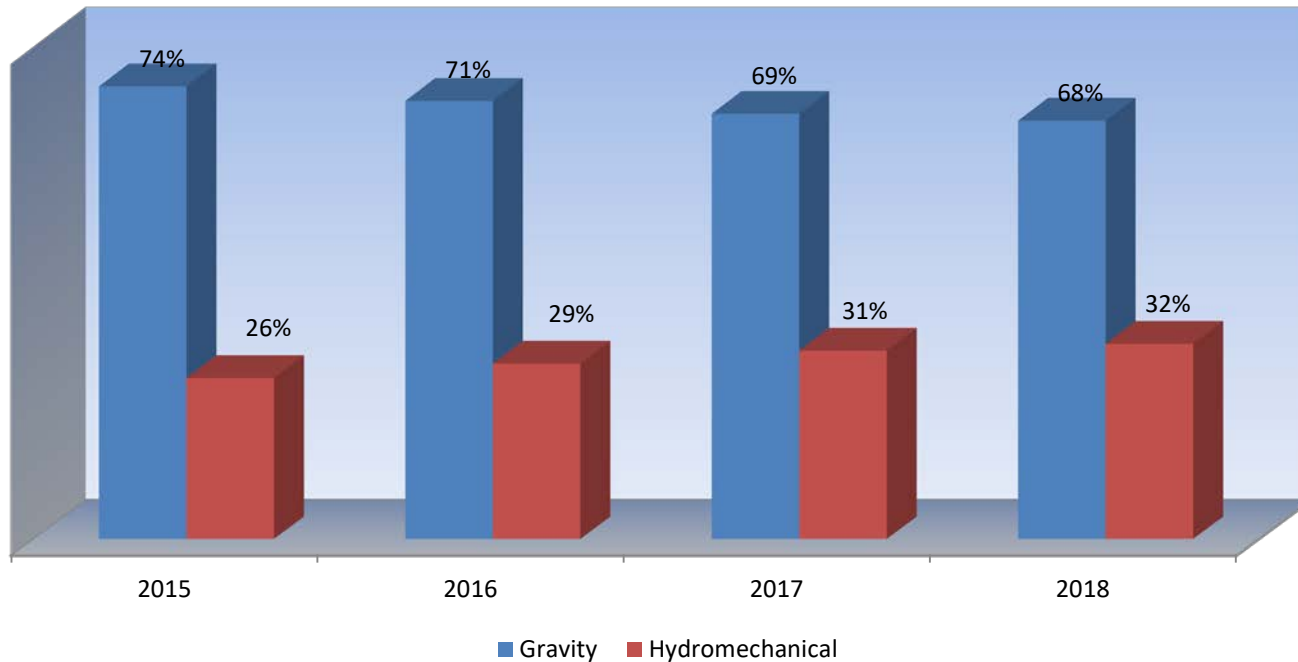
INSPECTIONS PER YEAR



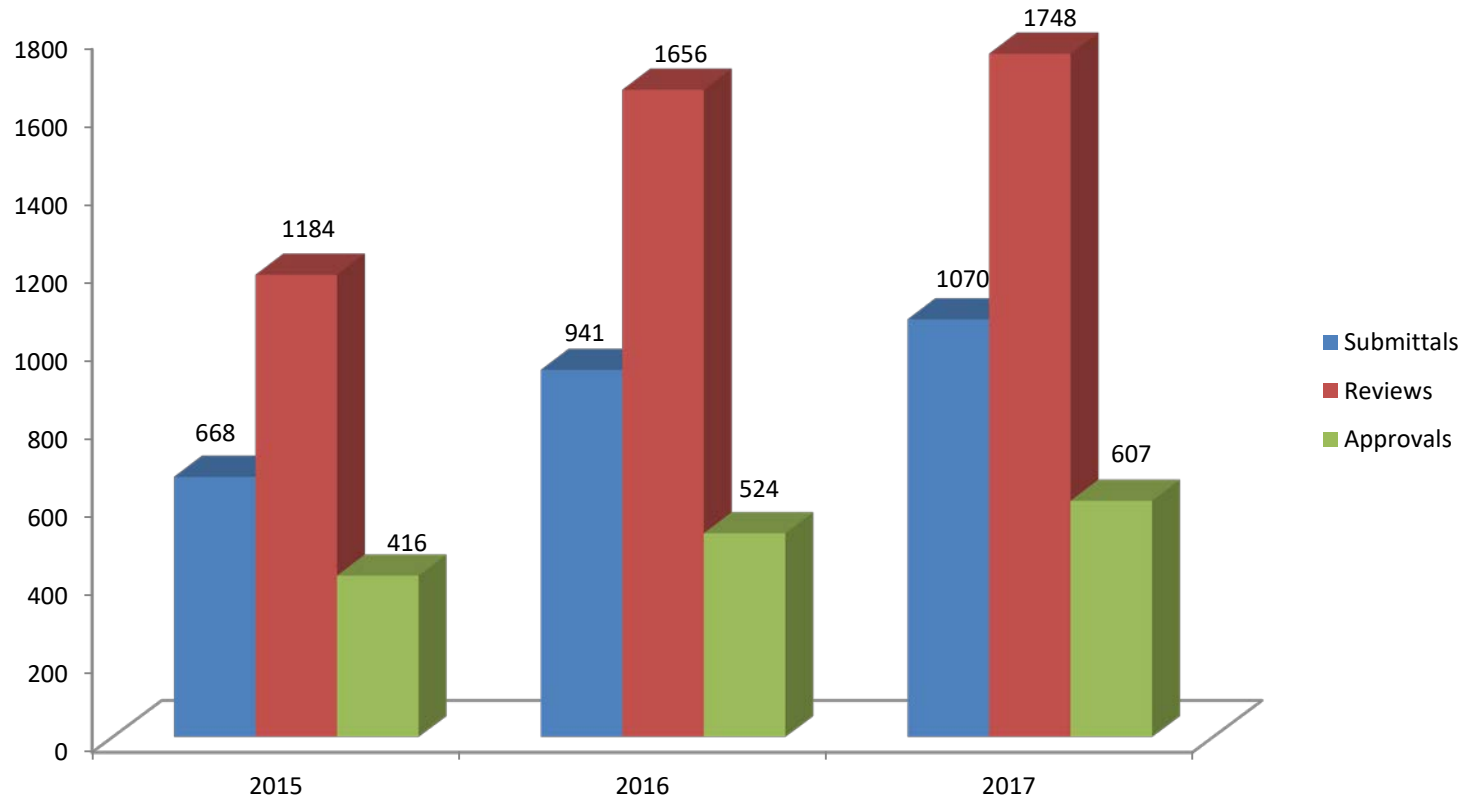
ENFORCEMENT



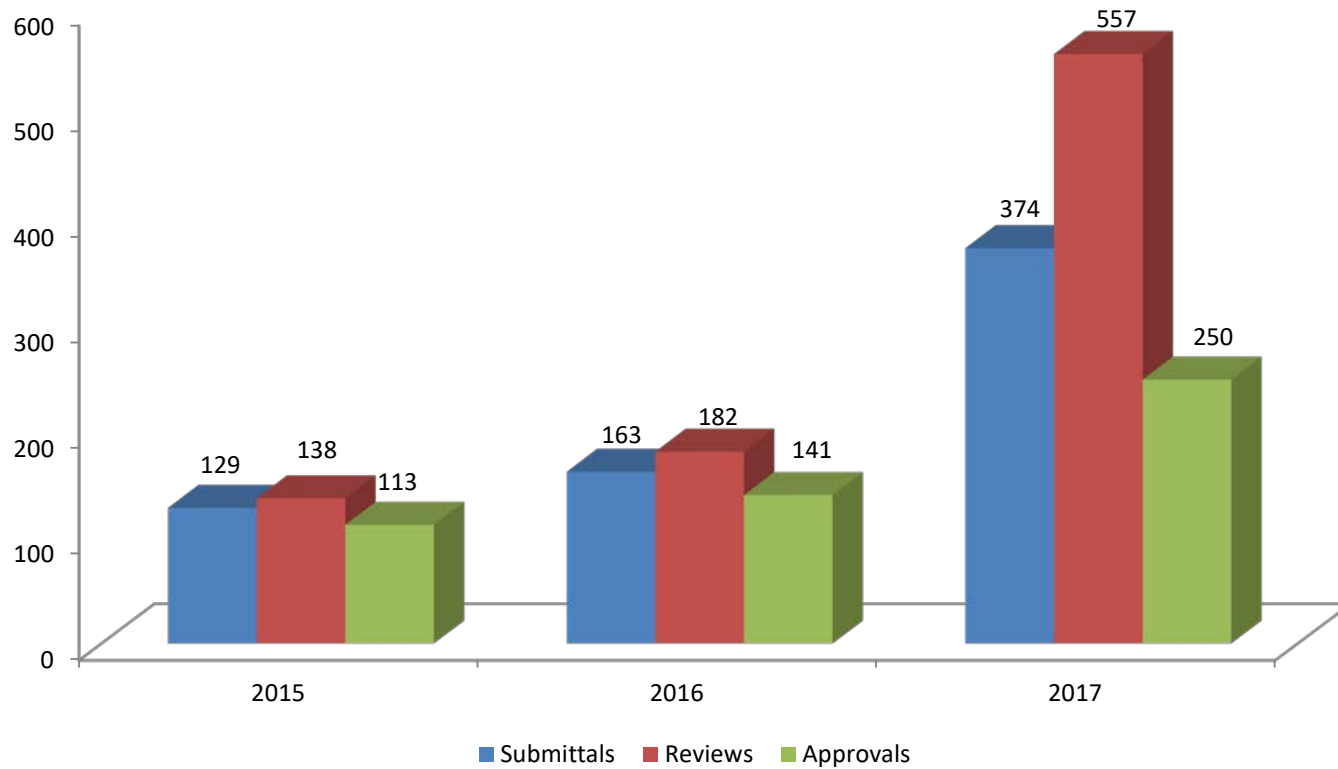
FOG CONTROL DEVICES AT FSE



PLAN REVIEW



OL/CU/BTLR REVIEW



OUTREACH EVENTS

YEAR	NUMBER
2014	15
2015	20
2016	18
2017	12
2018	8

MUNICIPAL CONSTRUCTION INSPECTIONS

FCD INSTALLATION INSPECTIONS

GDO#	PROCESS#	FOLIO	Project name	Type of GI	Date Received	Date Inspected	Assigned to	Contact	Phone #	Result	Re-inspection Fee
9102	M2018005706	28-2203-006-0060	AMAIZE	Hydromechanical	5/4/2018	5/7/2018	Nelson Martinez	Maykel Massanet	305-627-0199	PASS	NO
12157	M2018004211	07-2220-014-0290	MR. FRESH FARMERS MARKET	Hydromechanical	5/14/2018	5/15/2018	Navila Bernal	Yamarys Acosta	954-254-5193	FAIL	NO
12157	M2018012337	07-2220-014-0290	MR. FRESH FARMERS MARKET	Hydromechanical	5/29/2018	5/30/2018	Navila Bernal	Yamarys Acosta	954-254-5194	PASS	NO
	M2018005311	06-2221-007-0060	NOTHING BUNDT CAKES	Hydromechanical	6/4/2018	6/5/2018	Nelson Martinez	William Reeves	305-896-7873	PASS	NO
7659	M2018006804	03-4108-006-1590	SMOOTHIES	Hydromechanical	6/5/2018	6/6/2018	Nelson Martinez	Jorge Martinez	305-403-6660	FAIL	NO
2266	M2018004419	02-3234-003-005	Seven Spices Restaurant	Hydromechanical	6/1/2018	6/4/2018	Navila Bernal	Carmine	754-423-6283	PASS	NO
2979	M2018003819	03-4108-009-0290	Café Italia	Hydromechanical	6/7/2018	6/7/2018	Nelson Martinez	HugoPozzoli	305-443-8122	PASS	NO
12107	M2018000773	03-4108-009-0280	Ice cream Company	Hydromechanical	6/8/2018	6/11/2018	Nelson Martinez	Lizaines Lozano	305-890-8917	Pass	NO

PASS = 6

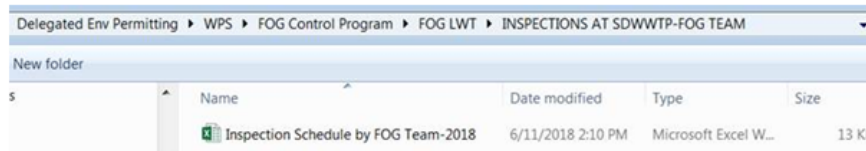
FAIL = 2

INSPECTIONS AT DISPOSAL SDWWTP

From: Castillo, Laura (RER)
 To: Bernal, Navila (RER); Izquierdo, Mayde (RER); Lopez, Karina (RER); Martinez, Nelson L. (RER); Mejia, Randall (RER); Perez, Erika (RER)
 Cc: Hernandez, Carlos P.E. (RER); Cabrejo, Elsa (RER); Areas, Rosa (RER)
 Subject: SCHEDULE

Schedule for LWT inspections at SDWWTP is posted in the P drive at the following location.
 If you need to change, please let me know so I can put it in the document.

Thanks,



INSPECTIONS AT SDWWTP WEDNESDAYS		
DATE	NAME	Replacement
6/20	Mayde Izquierdo	
6/27	Karina Lopez	
7/5	Erika Perez	
7/11	Nelson Martinez	
7/18	Randall Mejia	
7/25	Navila Bernal	
8/1	Mayde Izquierdo	
8/8	Karina Lopez	
8/15	Erika Perez	
8/22	Nelson Martinez	
8/28	Randall Mejia	
9/5	Navila Bernal	
9/12	Mayde Izquierdo	
9/19	Karina Lopez	
9/26	Erika Perez	

INSPECTIONS AT SDWWTP 2ND SATURDAY EVERY MONTH		
DATE	NAME	Replacement
6/9	Randall Mejia	
7/14	Erika Perez	
8/11	Navila Bernal	
9/8	Karina Lopez	
10/13	Mayde Izquierdo	
11/10	Randall Mejia	
12/8	Nelson Martinez	

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- **Today's Meeting Objectives**

- DERM Requirements Under EPA Consent Decree Case: No. 1:12-cv-24400-FAM
- FOG Control Program Key Performance Indicators (KPI)
- **Committee member's comments**
- Schedule date for next meetings

COMMITTEE MEMBER'S COMMENTS

	Director's Office	RER Administration	RER W&WW	WASD	Municipal Utility (Coral Gables)
What is Your No. 1 FOG Concern?					
If you can change One thing, what would it be?					
Are PM/KPI good indicators? Y/N					
Should we add New PM/KPI? Y/N					
Other Comments?					

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ATTACHMENT 4
1st FOG Control Program Review
Committee Meeting Input Matrix

1st Annual FOG Control Program Review Report Committee Input Matrix

Key Topics	Director's Office	RER Administration	RER W&WWD	WASD	Municipal Utility (Coral Gables)
What is Your No. 1 FOG Concern?	A. Manresa (Director's office): will be helping with improving the lines of communication between the plan review section and the permitting section personnel, by organizing training sessions, case study meetings, etc.	L. Castillo (Inspectors Supervisor): How to allocate the resources effectively to be able to inspect the number of facilities. C. Lincheta (Engineers/Plan Reviewers): The need to educate the engineers/consultants and business owners on the requirements included in the code. D. Roby (Permitting): How to improve the communication between plan review and permitting to improve consistency. More training is required.	O. Vasquez (WASD): Sanitary Sewer Overflows (SSOs) and the interruption of service.	A. Regalado (Coral Gables): Sanitary Sewer Overflows.	
If you can change One thing, what would it be?	No suggestions				
Are PM/KPI good indicators? Y/N	Agreed that the KPIs as proposed by the FOG Control Program are adequate measures of the effectiveness of the program.				
Should we add New PM/KPI? Y/N	No new performance measures (PMs) or Key Performance Indicators (KPIs) were proposed				
Other Comments?	Number of potential sites to inspect vs. required field personnel: A. Manresa (Director's office): indicated that the RER Administration will help with the approval of the take-home vehicles.	C. Hernandez and D. Roby (DERM): The FCP is the program in DERM with the greatest number of permitted facilities. C. Hernandez (DERM): The goal of conducting annual inspections by 2019 is a challenge given the condition of most permitted facilities and number of hot spots. C. Hernandez (DERM): Emphasized importance of data provided by utilities and liquid waste transporters. This data is being used to prioritize inspections, and ultimately to help the Utilities in reducing SSOs and maintenance related costs. C. Hernandez (DERM): We continue to work on getting take-home vehicles for inspectors and technicians and streamline the ERM Mobile application to increase the number of facilities inspected daily (e.g., 8 inspections/day/inspector) so the goal of inspecting each permitted facility annually by 2019 can be achieved.	O. Vasquez (MDWASD) reported that the increase in the number of SSOs observed from 2015 to 2017, could be caused by line breaks due to the extensive construction that is taking place all over the County. C. Hernandez (DERM) indicated that the smart covers installed by MDWASD have probably helped reduce SSOs due to grease blockages.	A. Regalado (Coral Gables) emphasized that the reductions of the SSOs will at the end benefit greatly the utilities. Other efforts like the goal of reducing inflow and infiltration (I/I) will reduce the conveyance and treatment cost.	