



Innovation in Ireland's FOG Program  
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**Michael O'Dwyer**  
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Wastewater Engineer,  
Dublin City Council



Dublin FOG Program Manager  
2008 - 2012



FOG Consultant @ EES –  
FOG Licensing and Inspection Services



Author, Journal of Environmental Management:  
International evolution of fat, oil and grease  
(FOG) waste management - A review



# Fat Oil & Grease

By-product of food  
preparation and wash up





# Dublin – A booming hospitality industry





FOG a factor in  
**80%**  
of sewer blockages



Photograph Source: [www.theguardian.com/cities](http://www.theguardian.com/cities)  
Photograph By: Adrian Dennis/AFP/Getty Images



Costing the City

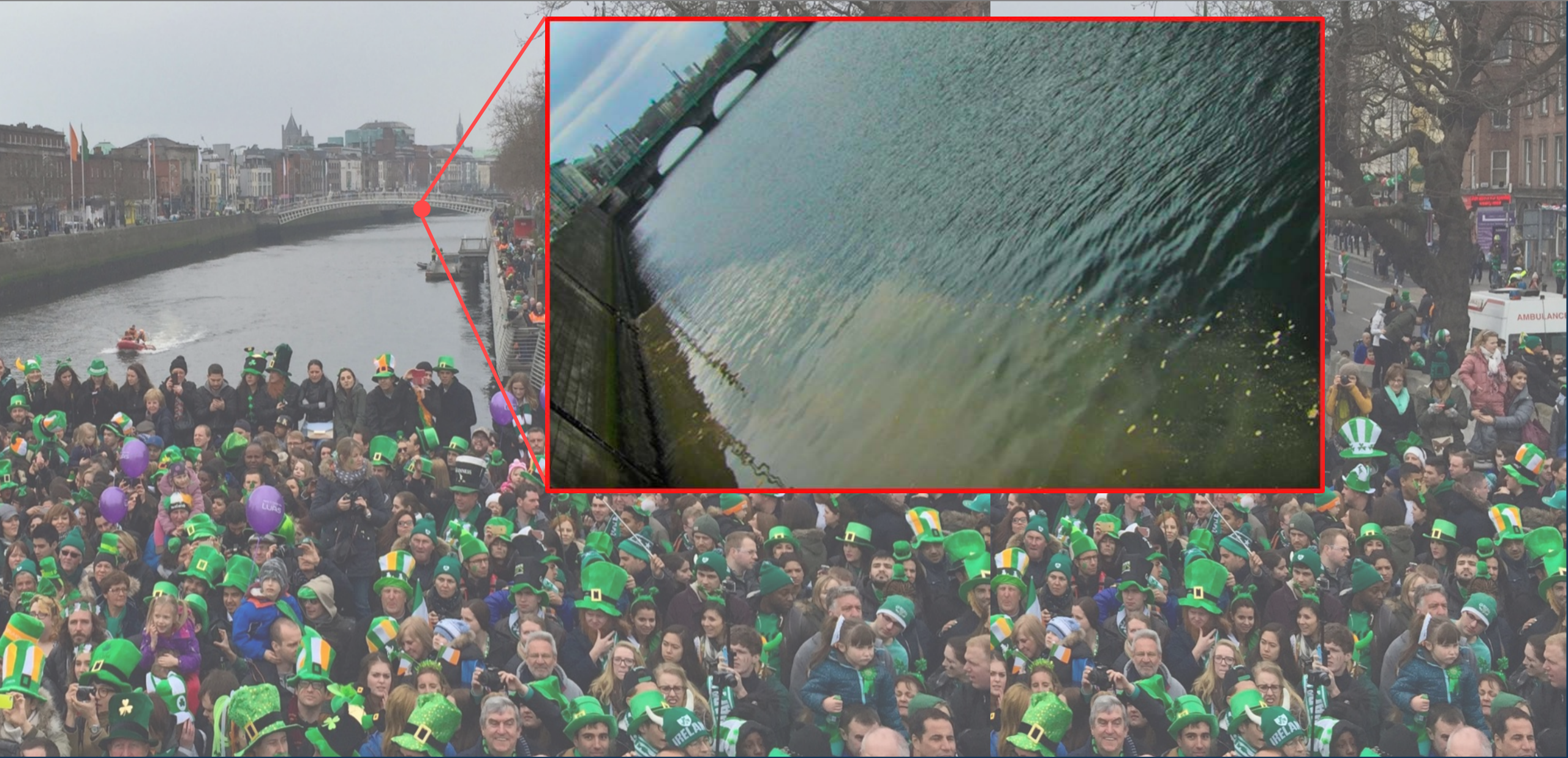
# \$1.5m

per year  
(Collection system only)





# Dublin, St. Patrick's Day 2010: FOG Blockage results in major sewage spill to River Liffey,







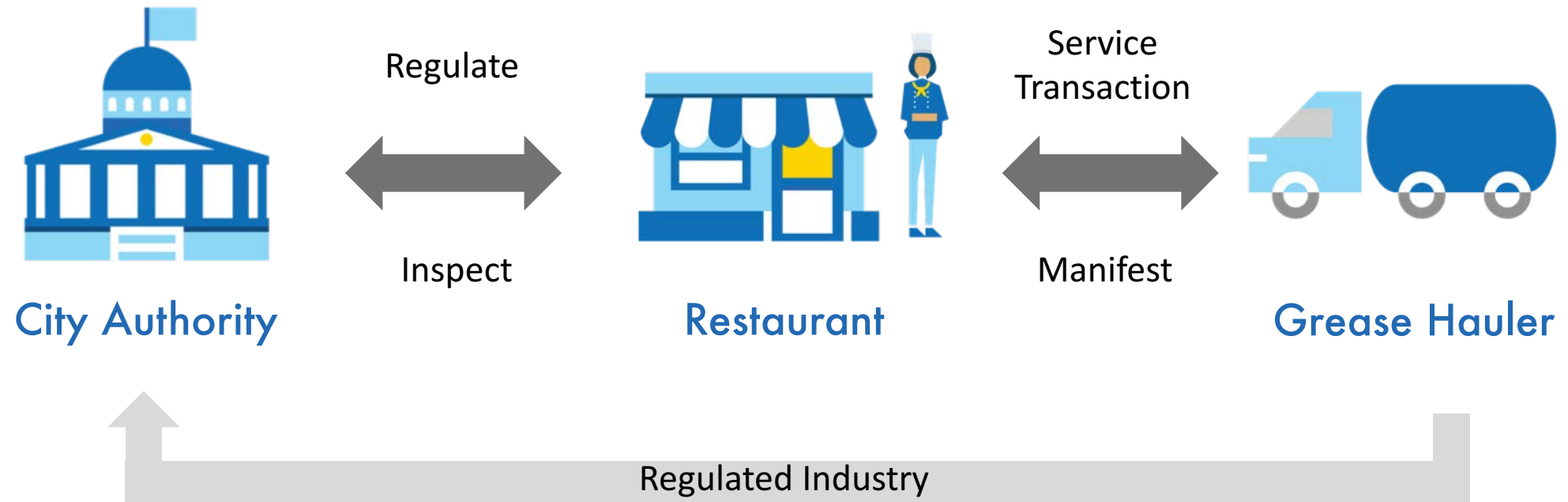
The Jewel in Dublin's crown



A close-up photograph of a person's hand holding a black pen, poised to write on a white sheet of paper held by a black clipboard. A silver clip is visible at the top of the clipboard. The background is a blurred outdoor scene with greenery and a building. A semi-transparent dark grey rectangular box is overlaid on the right side of the image, containing the title text in white.

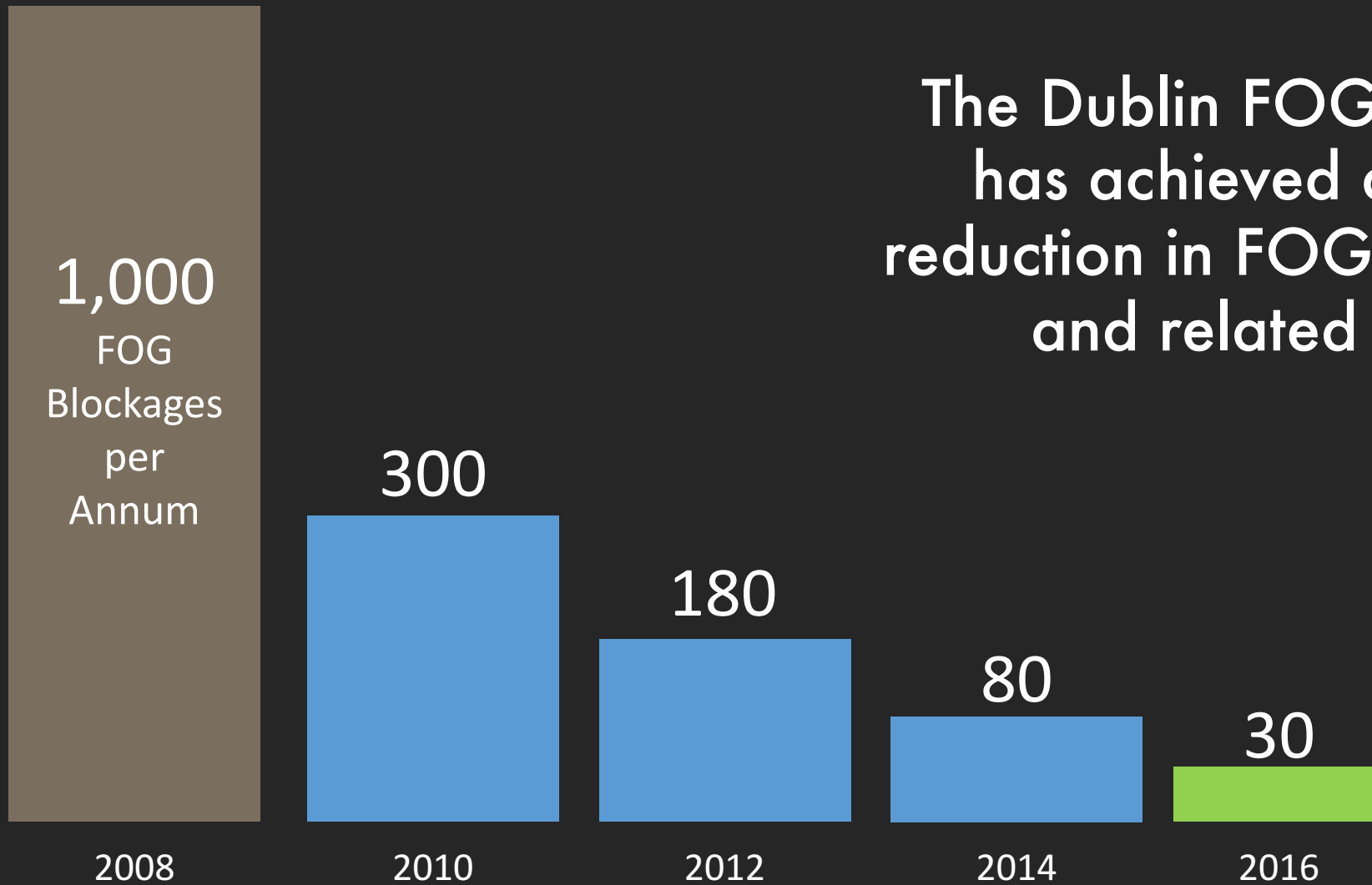
# Dublin's FOG Source Control Program







The Dublin FOG Program  
has achieved a 95%+  
reduction in FOG blockages  
and related SSOs







Resource Intensive



Paper-Intensive



Time Consuming



Expensive





# 150,000

Pieces of paper

Such as inspection reports, sampling reports,  
pumper manifests, invoicing, permits  
applications, plan reviews







SWIFT  
COMPLY



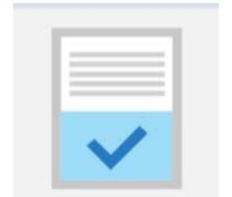
## Food Service Establishment



Book

Pay

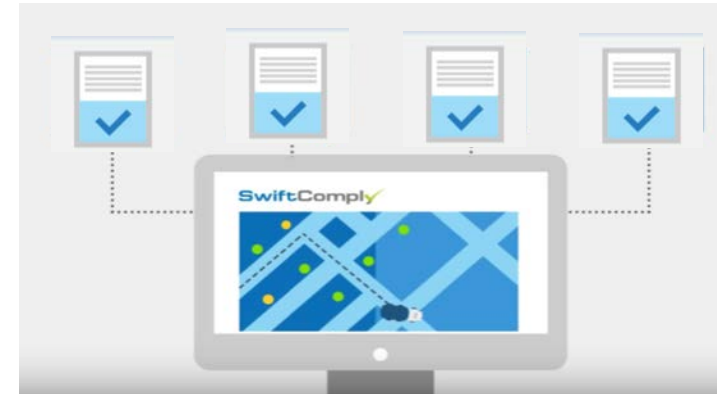
## Grease Pumper



Online  
Manifest



City Desktop  
Surveillance



City Compliance  
Dashboard





## City Authority

- ✓ Smart Regulation
- ✓ Better use of Resources
- ✓ Data Management
- ✓ Eliminates Paperwork
- ✓ Improves Service Quality
- ✓ Saves Time
- ✓ Business Relationships



## Food Service Business

- ✓ Convenient
- ✓ Cost Effective
- ✓ Guaranteed Compliance
- ✓ Eliminates Paperwork
- ✓ Improves Service Quality



## Grease Pumper

- ✓ Consolidated Marketplace
- ✓ Route Optimization
- ✓ Simple Interface
- ✓ Automated Reporting
- ✓ Guaranteed Payment



## Compliant Grease Trap Services

Only bookings with SwiftComply are automatically registered with the Irish Water Inspections Team

[Book Now](#)

Enter promo code or [contact us](#) to get one



« May 2017						
Mo	Tu	We	Th	Fr	Sa	Su
24	25	26	27	28	29	30
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	1	2	3	4

dd/mm/yyyy

Early

€50.00

Service price

Please trap serviced?

Business Name \*

Restaurant

Address Line 1 \*

123 fake street

Address Line 2

Dublin 2

Country

Ireland

City \*

Dublin

Eircode \*

001

Telephone \*

+353871960513

In case we need to contact you

Book Your Service Now

## Book your service

€50.00

Compliant Grease Trap Services

Service price

Enter your details bellow

When would you like your grease trap serviced?

10/0

SwiftComply

GT Cleaning

mick@swiftcomply.ie [Log out](#)

•••• •••• •••• 4242

VISA

11 / 17

•••

€50.00 Service Charge

Country

[Terms](#) | [Privacy](#)

Eircode \*

Ireland

Dublin

001

Telephone \*

+353871960513

In case we need to contact you

Book Your Service Now



Thank you



### Your service has been booked!

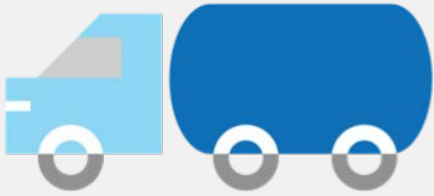
Date	Time Slot
10/05/2017	Early
Telephone Number	Address
+353871960513	123 fake street Dublin 2 Dublin, Ireland

Need help? Call us: 555 5555

### Join SwiftComply

Manage your  
appointments

[Create an Account](#)



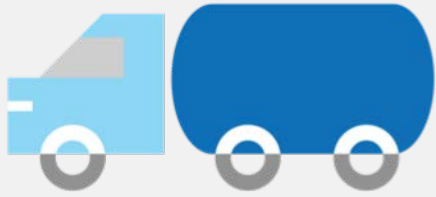
# Pumper Dashboard

Dashboard

+ New Appointment

May 10	Time Slot Early	Address 123 fake street Dublin 2 Dublin, Ireland	<div><div></div>Canceled</div>	<a href="#">View Invoice</a>
May 04	Time Slot Late	Address 123 Portland Street Oregon Dublin, Ireland	<div><div></div>Booked</div>	<div><div></div><div></div></div>
Apr 28	Time Slot Late	Address 123 fake street Dublin 2 Dublin, Ireland	<div><div></div>Booked</div>	<div><div></div><div></div></div>
Apr 28	Time Slot Late	Address 123 fake street Dublin 2 Dublin, Ireland	<div><div></div>Booked</div>	<div><div></div><div></div></div>







## Automated Manifest



### Grease Trap Job Report

McBreen Environmental Drain Services Ltd  
Lismagratty, Cootehill Road, Co Cavan  
Tel: 1890 66 33 33  
Email: info@mcbreenenvironmental.ie  
VAT No. IE9643687H  
Permit No. NWCPO-14-11283-01

<b>Customer Details</b>	
<b>Company Name:</b> Harolds Cross Stadium	<b>Site Contact &amp; Phone No.</b> Philip 0868236156
<b>Company Address:</b>	<b>Site Address:</b> Park View Kenilworth Drive Harolds Cross Dublin
<b>Location of Grease Trap (GPS)</b>	
<b>Job Details</b>	
<b>Job Name:</b> 92-18122 Harolds Cross Stadium Grease Trap Maintenance 2015	<b>McBreen Environmental Vehicles on site:</b> High Vol Jet Vac 151 CN 1271, , ,
<b>Job ID:</b> 1284205	<b>McBreen Environmental Employees on site:</b> Conor Reilly, Other, , ,
<b>Trap Emptied &amp; Cleaned Down?</b> Yes	
<b>Job Start Time</b> 06 Oct 2015, 08:00	<b>Job End Time</b> 06 Oct 2015, 09:34
<b>Photo before works</b>	<b>Photo after works</b>
	
<b>Work fully complete this visit?</b> Yes	<b>Recommendation to Client:</b> none
<b>If not, reason work incomplete:</b>	
<b>Waste Details</b>	
<b>Quantity Removed</b> 300 litres	<b>EW Code:</b> 20.01.25 Grease Trap Waste
<b>Waste Destination:</b> Yard	

Driver Signature:

Conor

Customer Signature:

NO



SCADMIN

Dashboard

Establishments

Inspections

Inspectors

Local Authorities

Hauliers

Settings

Log Out

3,863  
ACTIVE ESTABLISHMENTS

2,992 77.45%  
ACTIVE LICENCES

INSPECTIONS

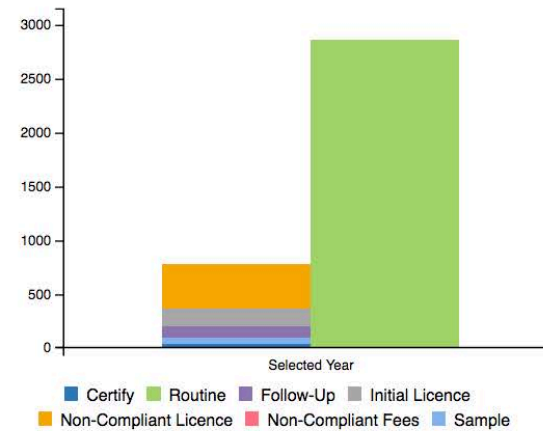
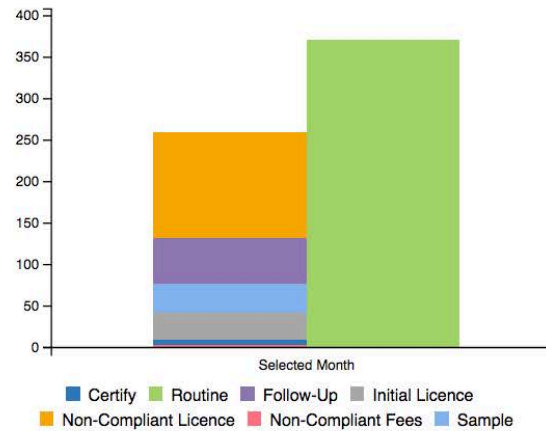
630 -38.54%  
SELECTED  
MONTH

1,025  
TARGET

3,635 -71.55%  
SELECTED YEAR

12,778  
TARGET

TYPE OF INSPECTIONS



FOG REMOVAL SELECTED YEAR

426,640  
GREASE TRAPS (L)

416,462  
USED COOKING OIL (L)







40%

Improved  
Compliance

57%

Inspector  
Efficiency

62.5%

Reduction  
in SSO's





**Its time to bring FOG programs  
into the digital age**

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