

Illicit Discharge Detection and Elimination Program

Prepared for:

Doylestown Township and Citizens

Doylestown Township, Pennsylvania

February 17, 2015



Previous Presentations

Illicit Discharge Detection and Elimination Program

Prepared for:
Doylestown Township and Citizens
Doylestown Township, Pennsylvania

February 18, 2014



February 19, 2013



Illicit Discharge Detection and Elimination Program

Prepared for:
Doylestown Township and Citizens
Doylestown Township, Pennsylvania

February 19, 2012



Illicit Discharge Detection and Elimination Program

Prepared for:
Doylestown Township and Citizens
Doylestown Township, Pennsylvania

February 19, 2011



Illicit Discharge Detection and Elimination Program

Prepared for:
Doylestown Township and Citizens
Doylestown Township, Pennsylvania

February 19, 2010



Illicit Discharge Detection and Elimination Program

Prepared for:
Doylestown Township and Citizens
Doylestown Township, Pennsylvania

February 19, 2009



February 19, 2008

August 7, 2007

November 21, 2006

Previous Presentations available

@ Township Website

<http://www.doylestownpa.org/>



**CONESTOGA-ROVERS
& ASSOCIATES**

Worldwide Engineering, Environmental, Construction, and IT Services

- **Richard Burns, P.G.**
- **Russell Mehalick**



Agenda

- **Current Status IDD&E**
- **2014 Inspections & Sampling**
- **2015**
- **Takeaways**
- **Q&A**



Current Status IDD&E

- Year 11 of the Program
- PADEP (Feb 2014)
 - PADEP remains pleased at how Doylestown Township manages their IDDE program
- Application submitted to extend NPDES Permit to March 2018



IDD&E - Dry Weather Inspection



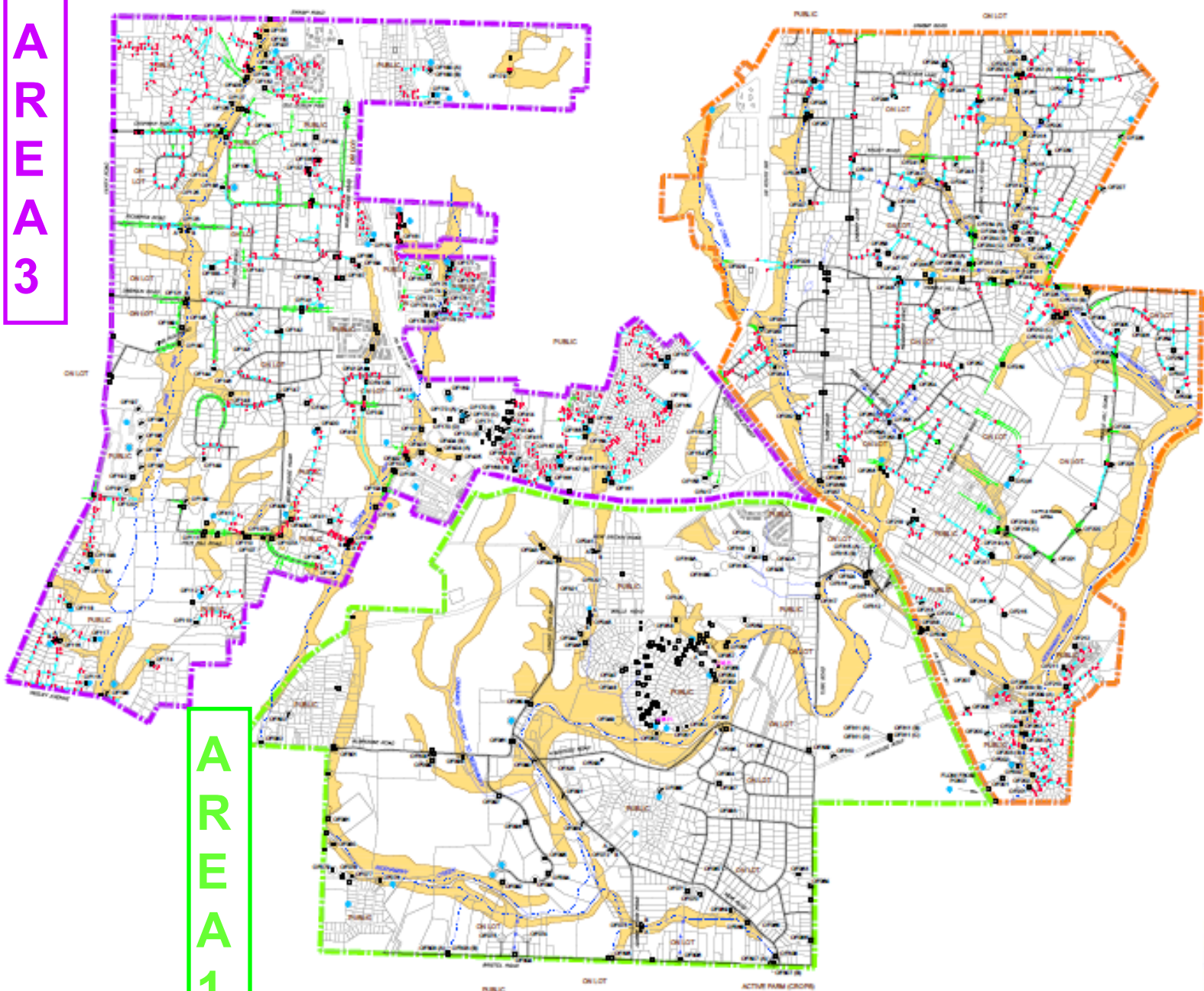
IDD&E - Dry Weather Inspection



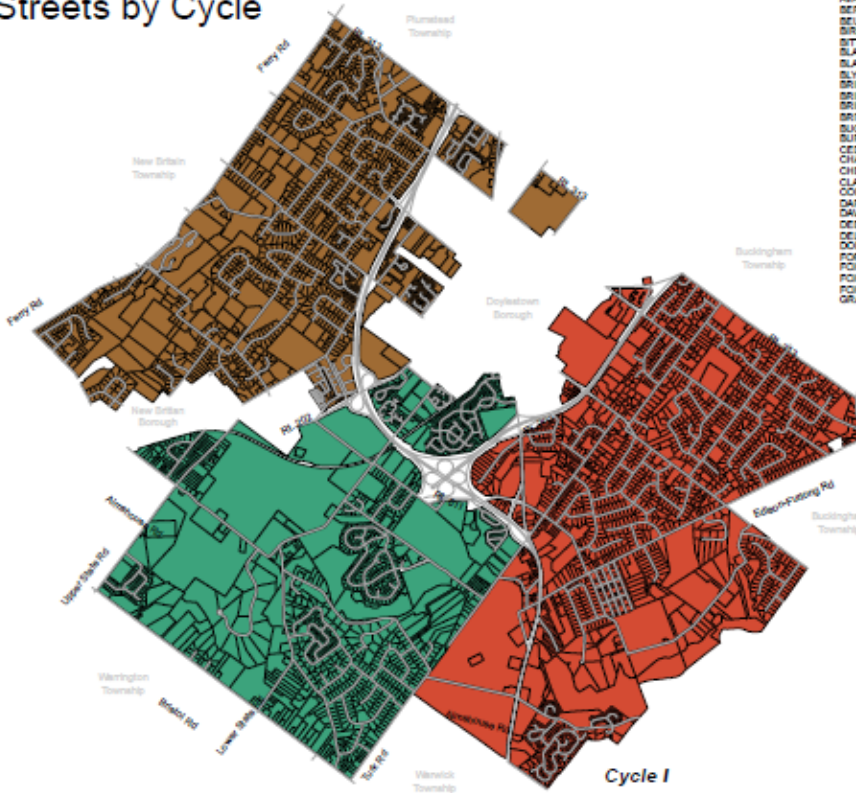
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Doylestown Township Septage Management Program Streets by Cycle



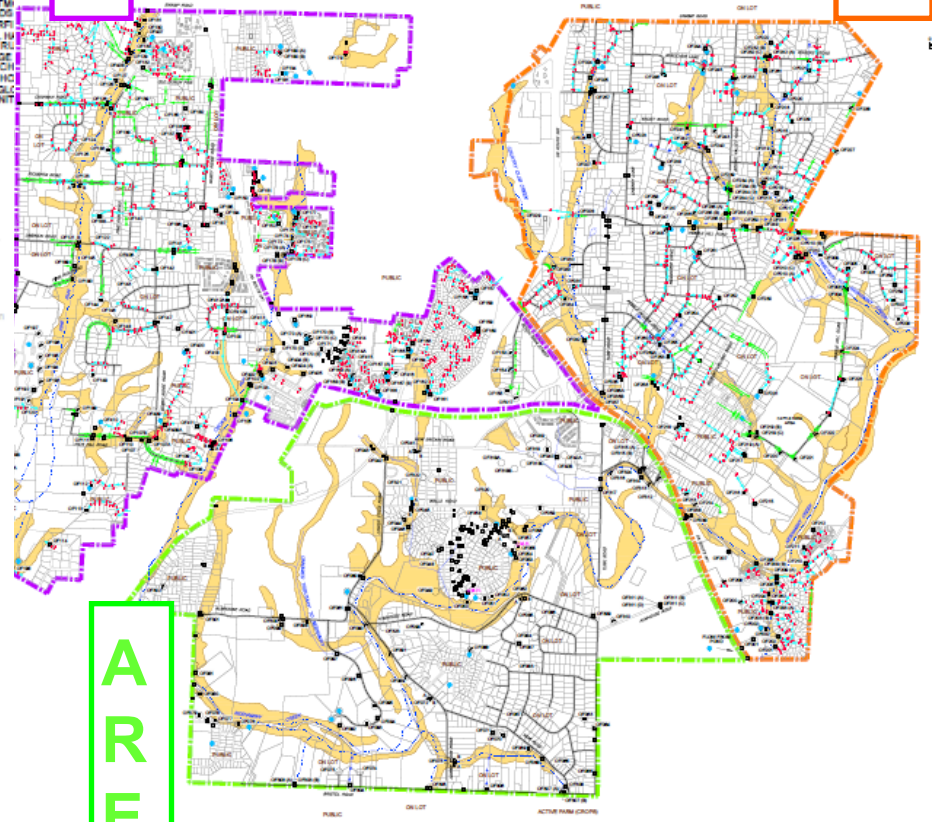
- Cycle I**
Start: January 2004
End: December 2004
- Cycle II**
Start: January 2005
End: December 2005
- Cycle III**
Start: January 2006
End: December 2006



- City
- ADDISC
- ALMISH
- ANVILL
- ARBOR
- ASPEN
- ASTER
- AURORA
- AVALON
- BERKEE
- BEULAH
- BIRDC
- BITTER
- BLACKI
- BLAINE
- BLYTIE
- BRINKE
- BRINKE
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- BRITTAI
- BUCKE
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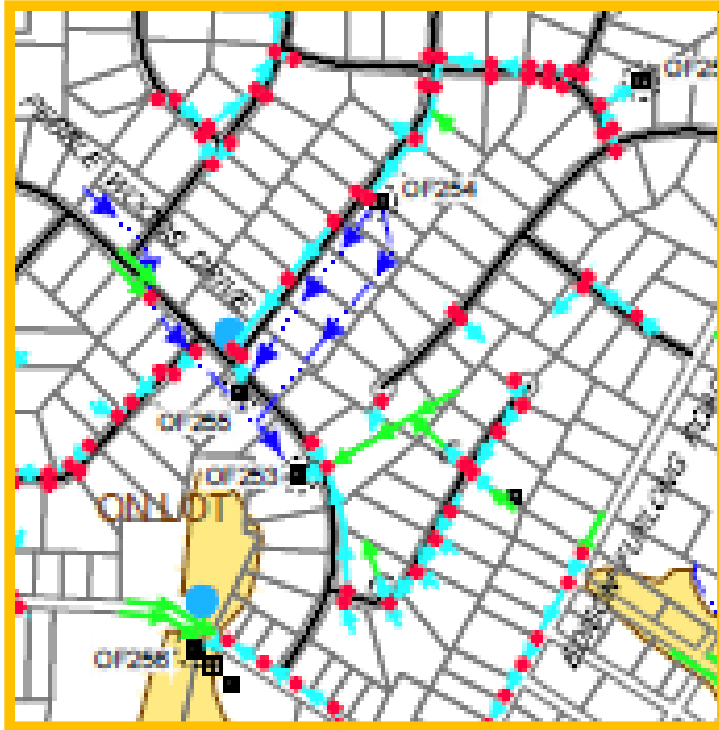


IDD&E Inspections, Sampling & Results - 2014

- **Focused Inspections & Sampling Areas 1, 2,3**
- **Historical “Hot Spot” Sampling**
- **Sample Analysis**
 - **Fecal coliform at all locations**
 - **Area 1 = 9**
 - **Area 2 = 2**
 - **Area 3 = 8**
 - **Detergents at one location (Area 3)**
- **Data Review**
- **Completed Detailed Mapping of All Areas**
 - **EPA requirement to map all outfalls, catch basins, etc.**
 - **Identify receiving waters / surrounding municipalities**
 - **Prepare detailed CAD map**
- **Annual Report (2013) to PADEP – June 2014**



Detailed Mapping



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IDD&E Sampling - 2014

Area 1

- 9 samples at 9 outfalls
- 4 samples FC > 300 col/100 ml
- Maximum FC = >6,000 col/100 ml



IDD&E Sampling - 2014

Area 2

- 2 samples at 2 outfalls
- 1 sample FC > 300 col/100 ml
- Maximum FC = 670 col/100 ml



IDD&E Sampling - 2014

Area 3

- 8 samples at 8 outfalls
- 4 samples FC > 300 col/100 ml
- Maximum FC = > 6,910 col/100 ml

- 1 additional sample analyzed for detergents – Results positive



IDD&E Sampling - 2014

Area 1

FC levels showed some increased results compared to 2013 (Max = 1,000). 7 of the 9 samples >200. Max > 6,000.

Area 2

Only 2 samples collected. One sample was 7 and one was elevated at 670. Generally same result at 2013. Max = 670.

Area 3

FC levels are elevated in several areas. Max > 6,910.



Going Forward

- **Complete inspections/hot-spot sampling throughout township ~25 locations.**
- **Additional source investigations:**
 - **Dye Tracing – Submit letters to residents as needed.**
 - **TV inspections of catch basins, as needed.**

Source mitigation, if identified

- **PADEP Permit changes?**



Going Forward

- Possible DNA Testing



Takeaways

- Township in Compliance
- Continue Inspections/Sampling
- Mapping effort is complete
- Continue to perform sampling where illicit discharges may be occurring
- Septic system maintenance
- Public participation
- Pollution prevention & good housekeeping
- **Goal is to Improve Water Quality!!!**



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