

Illicit Discharge Detection & Elimination Program

Prepared for: Doylestown Township and Citizens

Doylestown Township, Pennsylvania December 1, 2015

Richard Burns / Russell Mehalick | Presenters







At a glance – CRA is now GHD





Agenda

- Current Status IDD&E
- 2015 Inspections, Sampling, Results
- DNA Sampling
- Going Forward 2016
- Takeaways
- Q&A





Current Status of IDD&E

- Year 13 of the Program
- GHD completed typical hot spot IDD&E sampling
- Township requested inspection of ~60 additional outfalls
- PADEP (2015)
 - PADEP remains pleased at how Doylestown Township manages their IDD&E program
- Application submitted to extend NPDES Permit
- PADEP working on new PAG-13 2018 Permit conditions (March 2018)
- Sep 15, 2017 NOI for individual MS4 Permit applications due









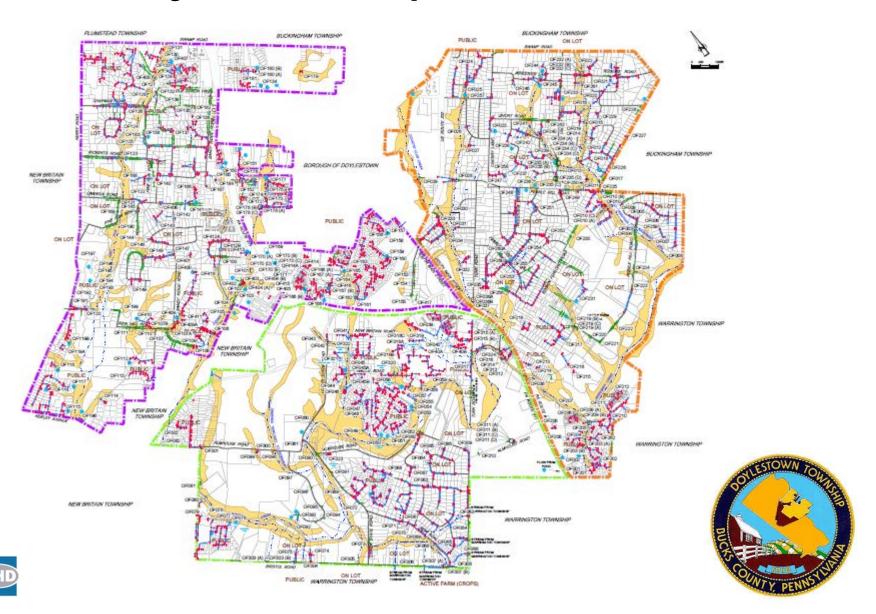


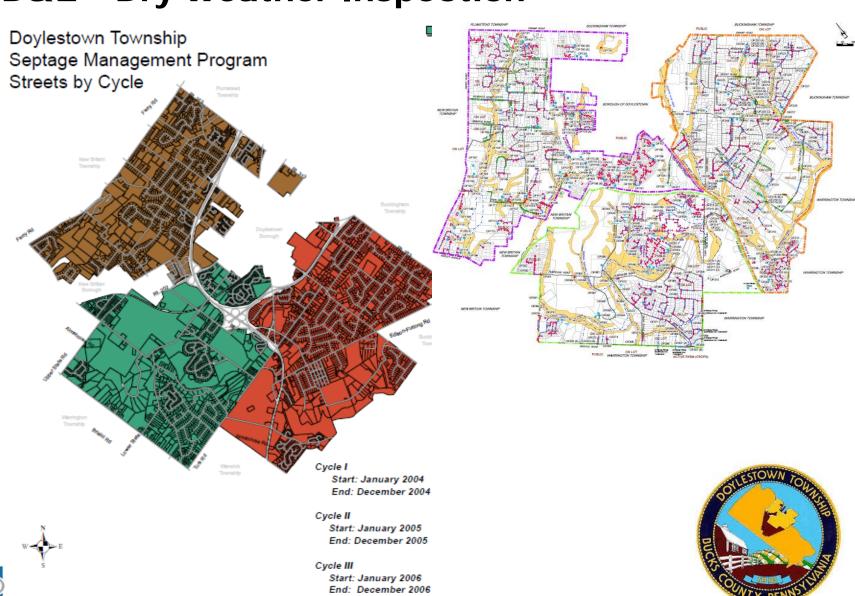












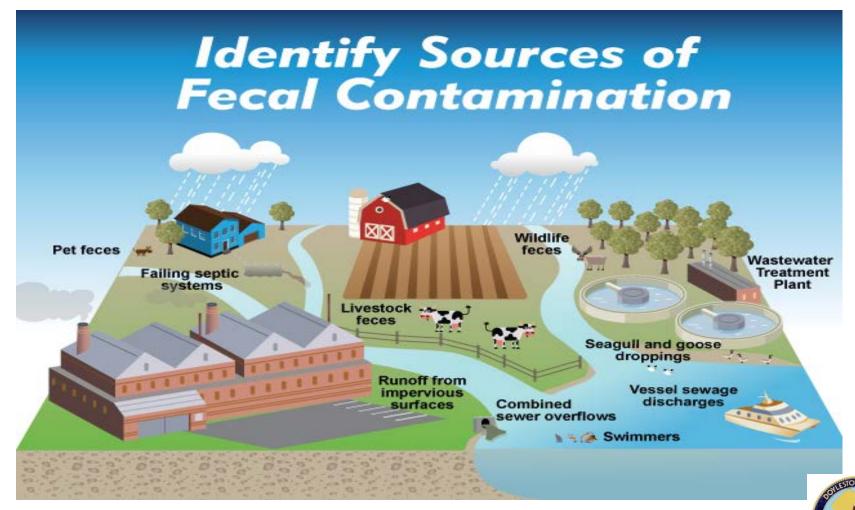
IDD&E Inspections, Sampling & Results - 2015

- Focused Inspections & Sampling
 - Historical Hot Spots (Areas 1, 2, and 3)
- Additional Inspections & Sampling requested by Township (Areas 1 & 2)
- Sample Analysis Fecal coliform at all requested locations with flow
 - Area 1 11
 - Area 2 14
 - Area 3 3
- Data Review Chose 5 locations (Areas 1 and 2) for DNA fingerprinting





Fecal Coliform Sources





DNA Fingerprinting

DNA Tests

- Goose
- Cow
- Ruminant
- Dog
- Human





Area 1

- 16 samples at 14 outfalls (2 samples collected for DNA testing)
- 6 samples FC > 200 col/100 ml
- Maximum FC = 1,900 col/100 ml
- DNA testing
 - 1 positive for human
 - 1 positive for dog





Area 2

- 14 samples at 11 outfalls (3 samples collected for DNA testing)
- 4 samples FC > 200 col/100 ml
- Maximum FC = >6,000 col/100 ml
- DNA testing
 - 2 positive for human
 - 1 positive for dog





Area 3

- 3 samples at 3 outfalls (No DNA samples collected)
- 0 samples FC > 200 col/100 ml





Area 1

FC levels somewhat decreased from 2014 (2 > 6,000 col/ml). In 2015, Max = 1,900.

Area 2

No significant changes. In 2015, Max = 1,200 col/ml.

Area 3

No FC > 200 col/ml.





IDD&E – Going Forward 2016

- Complete inspections/hot-spot sampling throughout Township ~25 locations
 - Historical Hot Spots (Areas 1, 2, and 3)
- Additional Inspections & Sampling requested by Township
- Comply with current permit PAG-13 (effective March 16, 2013)
- Additional source investigations as needed
 - Dye tracing
 - TV inspections
 - DNA testing





IDD&E - Takeaways

- Township in Compliance
- Continue Inspections/Sampling
- Septic System Maintenance
- Public Participation
- Pollution Prevention and good housekeeping
- Goal is to Improve Water Quality!







For more information contact

Rich Burns Russ Mehalick 410 Eagleview Blvd Exton, PA 19341

<u>richard.burns@ghd.com</u> <u>russell.mehalick@ghd.com</u>



