Illicit Discharge Detection and Elimination Program

Prepared for:

Doylestown Township and Citizens

Doylestown Township, Pennsylvania

March 1, 2011



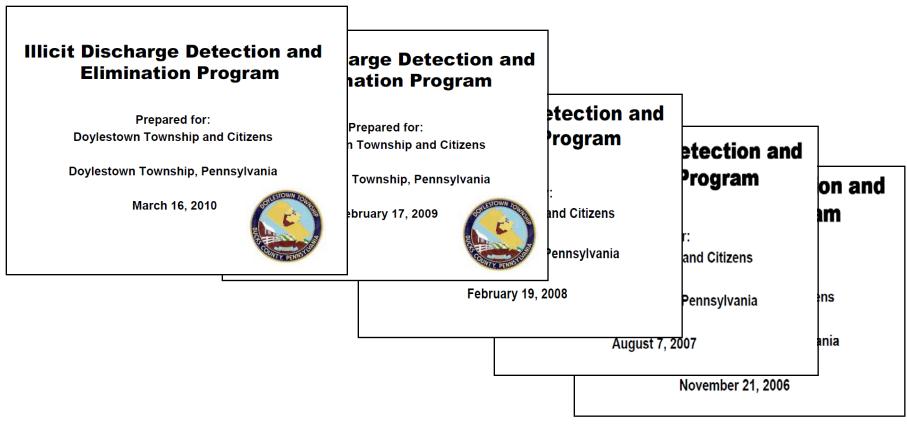
Introduction



- Richard Burns, P.G.
- Russell Mehalick



Previous Presentations



2010 presentation available @ Township Website

http://www.doylestownpa.org/



Agenda

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



Current Status IDD&E

- Township is in Compliance
- NPDES Permit extended to June 2012



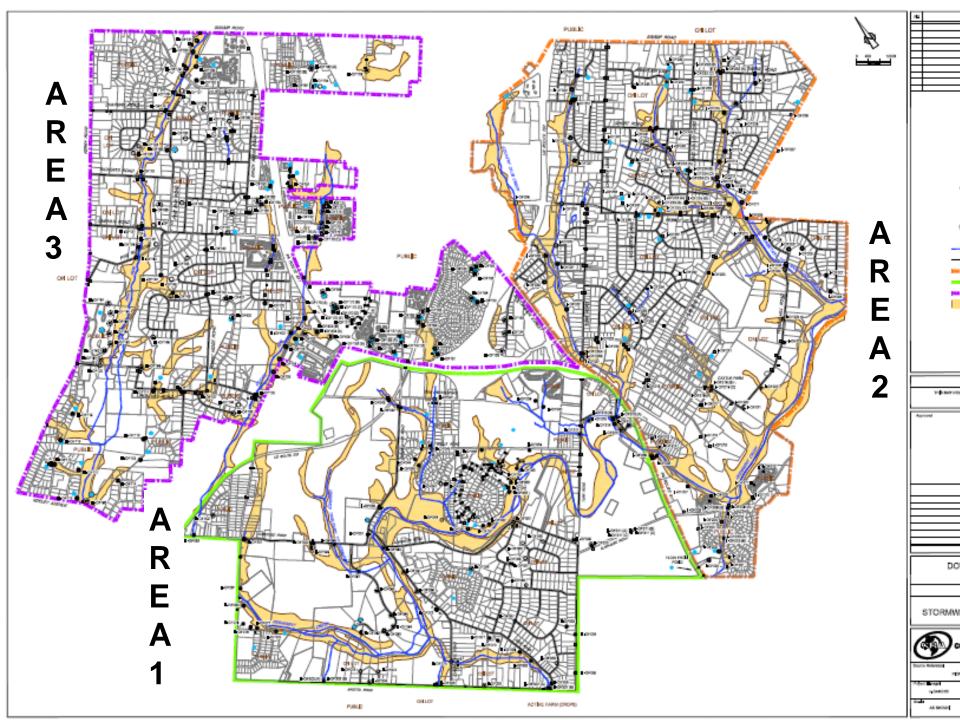


IDDE - Dry Weather Inspection







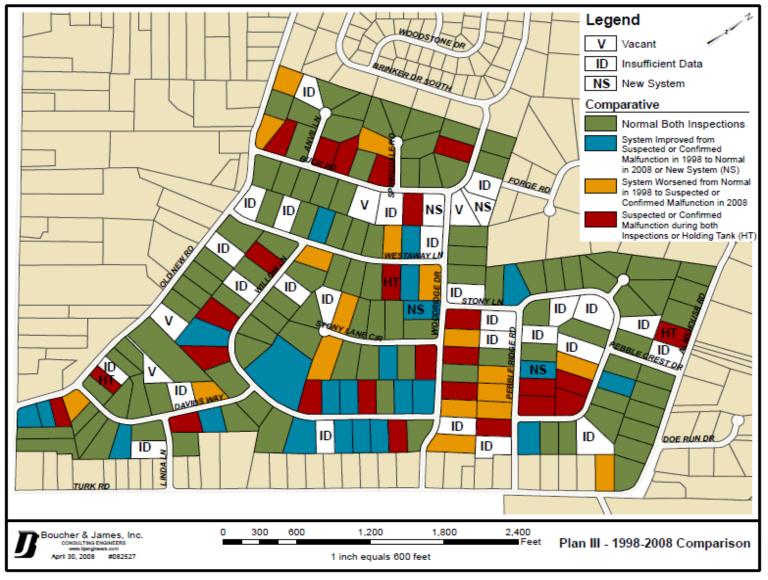


Soil Survey - 2008

Boucher and James Study Findings with Soils
Map Created by Sandra B. Zadell, 2.11.09 DARTMOUTH DR Legend New System HT Holding Tank WOODSTONE DR Surface Malfunction RINKER DR SOUTH Malfunction Suspected street AbA: Somewhat Poor AbB: Somewhat Poor LkB BeB BeB: Well Drained CbA: Somewhat Poor LkA CyB: Moderately Well FORGE RD LkB DdA: Poor MILITIA HILL RD DdB: Poor LkA: Moderately Well WESTAWAY LN LkB: Moderately Well ReB: Moderately Well CbA WfD UsB: Not Rated WfD ReB DdA WfD: Well Drained LkA STONY LN Surrounding Neighborhood DdA DdA STONY LANE CIR LkA ReB DdA DdB CbA CbA ReB WILLOW LN СуВ DdA UsB DdA LkB LkA LkA DOE RUN DR LkB 0.08 0.16 0.24 0.32 Miles



Septic System Inspections 1998-2008





IDD&E Inspections, Sampling & Results - 2010

- Focused Inspections & Sampling on Area 1
- Limited sampling Area 3
- Sample Analysis (fecal coliform)
- Data Review
- Interaction with Health Department regarding failed dye test in 2009.
 - Corrective Action taken by Health Dept. Capped end of 4"
 PVC pipe. Still flow from around pipe as of CRA's last inspection in October 2010.
 - Health Dept. talked to homeowner and additional Corrective Action (install holding tank) to be taken by homeowner.
- Prepared Annual Report for PADEP



IDD&E Sampling - 2010

Area 1

Outfalls

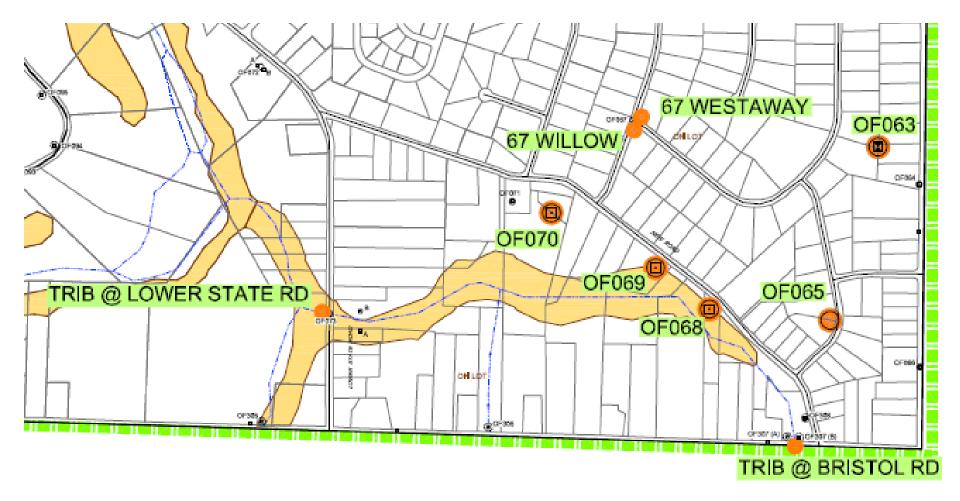
- 8 confirmatory samples at 6 problem outfalls
- Only 1 FC sample >200 col/100 ml
- Maximum FC = 1,100 col/100ml

Stream

- Upstream and Downstream of historical Hot Spots
- Upstream 30 col/100ml
- Downstream 320 col/100ml



Area 1 Sample Location Map





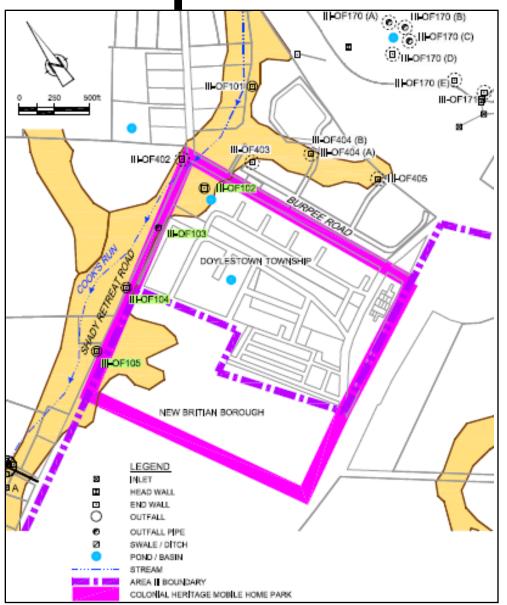
IDD&E Sampling - 2010

Area 3 Outfalls

- 2 confirmatory samples at 4 outfalls
- No FC samples >200 col/100ml



Area 3 Sample Location Map





Going Forward

- Continue inspections and sampling of select outfalls and source areas with historical FC impact
- Based on sampling results, complete additional source investigations (i.e. dye tracing, TV inspection), if necessary
- Source Mitigation



Takeaways

- Township in Compliance Permit Extended
- Continue Inspections & Sample Analysis
- Review Data
- Continue to work with Health Dept to perform mitigation as necessary
- Septic system maintenance
- Public participation
- Pollution prevention & good housekeeping
- Goal is to Improve Water Quality!!!



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