APR

# Executing a Successful Illicit Discharge Investigation

Where to start, what tools to use and which ones can you leave at home.



@DOEE\_DC

# Investigation Objectives



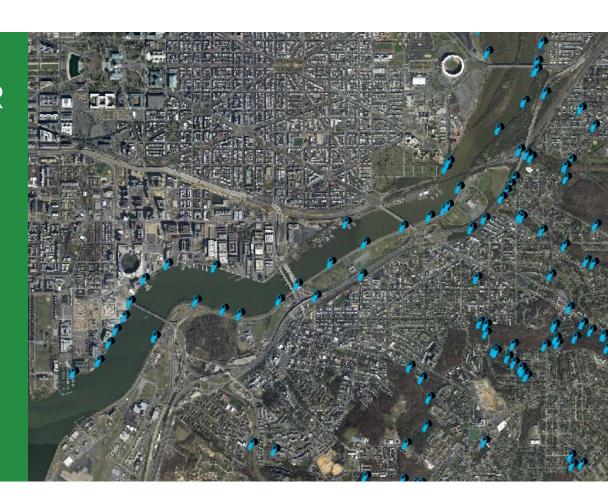
- Identifying the Discharge
- Locate the Source
- Eliminate the Source
- Enforcement



#### Identifying the Discharge

# IDDE PROGRAM OR OTHER MS4 PERMIT REQUIREMENTS

- Dry Weather
   Screening and outfall inspections
- Report or complaint response





## Identifying the Discharge



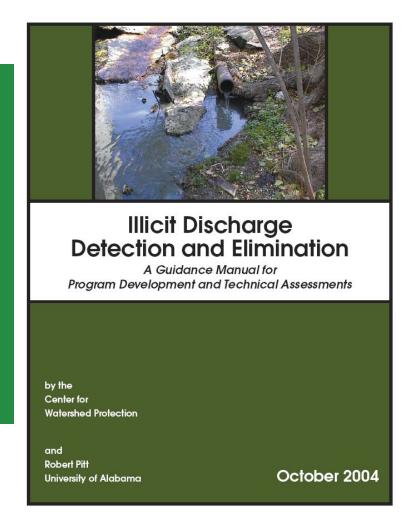
#### EMERGENCY RESPONSE / SPILL RESPONSE

- HSEMA
- Fire or Hazmat
- LEPC
- 311



"An up-to-date and comprehensive manual on techniques to detect and correct discharges in municipal storm drains has been unavailable until now."

The Center for Watershed Protection and Mr.
 Robert Pitt (2004)

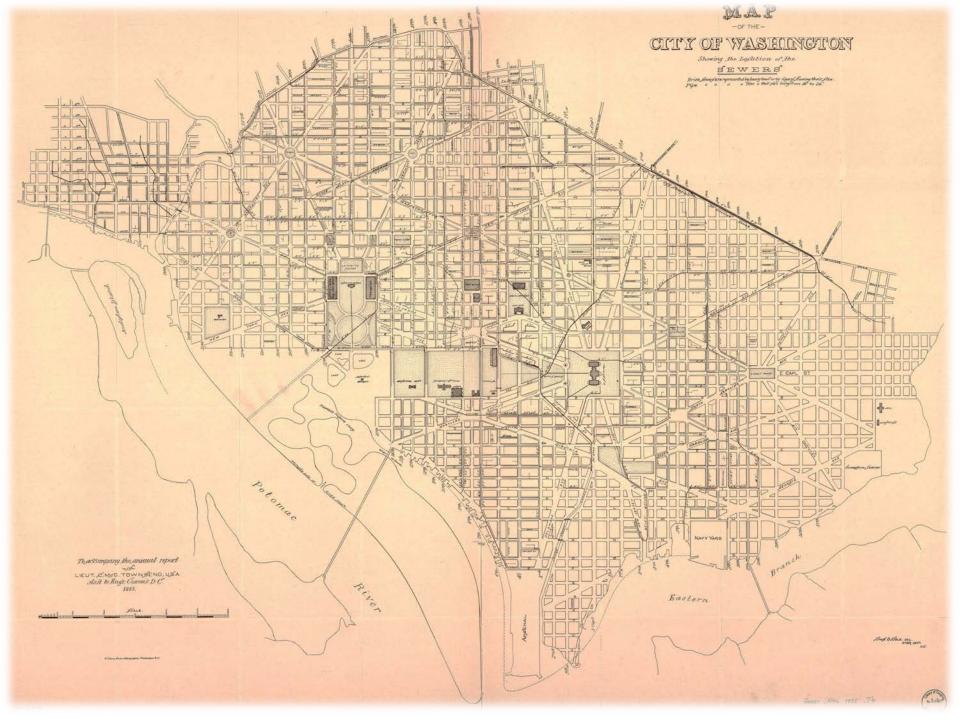


#### Scaled and Measured Response





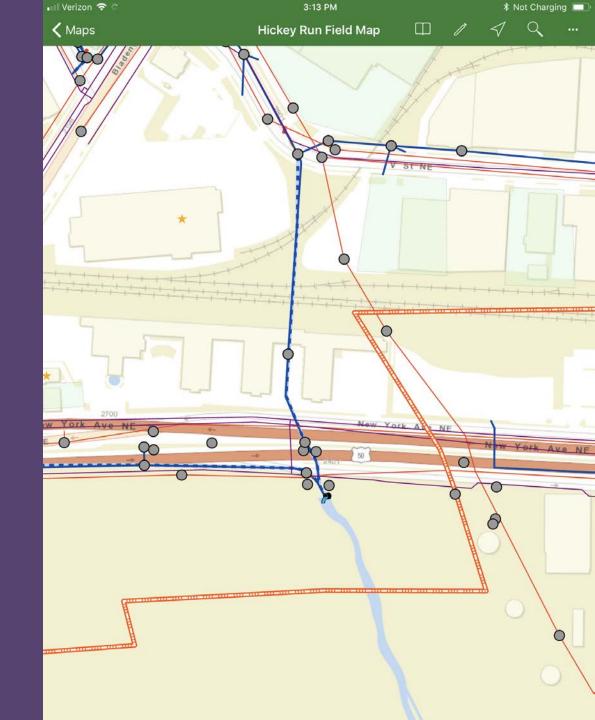




# In the Field

# Digitized and Mobile Sewershed

- Sewer lines
- Manhole locations and nomenclature details;
- Inlet locations and nomenclature details;
- High priority or suspect facility identification





# In the Field

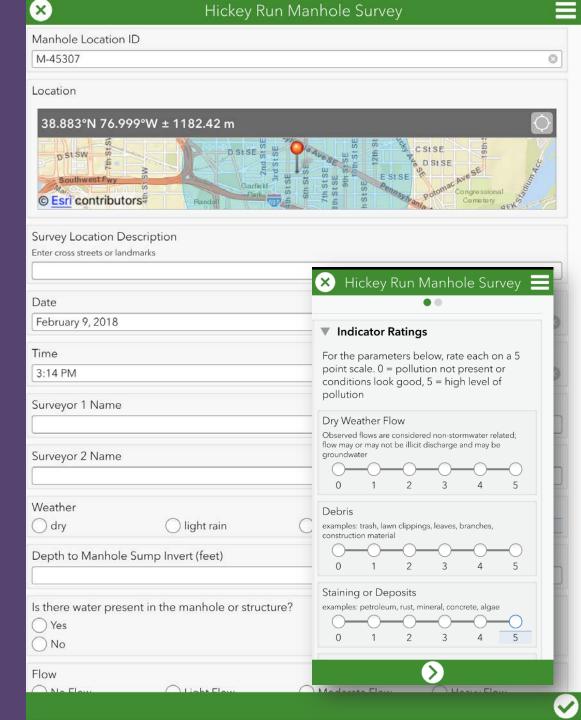
#### **Physical Investigations**

- Dye Tests
- CCTV
- Outfall Screening
- Sample Collection

# In the Field

# Documenting Visual Observations

- Standardized and completed forms
- Standard Operating Procedures
- Chain of Custody (Physical Evidence Collection)



#### Illegal Plumbing





#### Improper Use or Maintenance of BMPs





#### Illicit disposal





#### Fats Oils and Grease





#### Legacy and Unknown Sources





#### **Groundwater Sources**





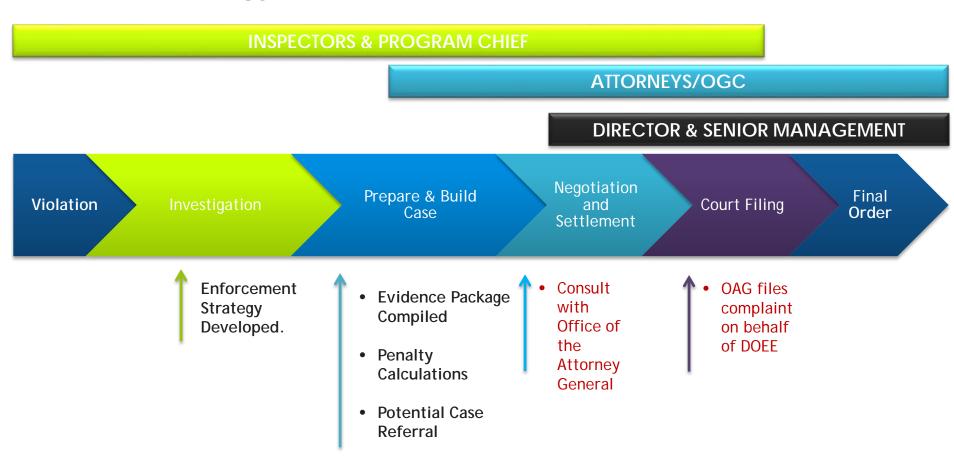
#### **Emergencies and Spills**





## Enforcement

#### Path & Strategy





# Enforcement

#### Compliance vs. Penalty





#### **Questions and Comments**

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