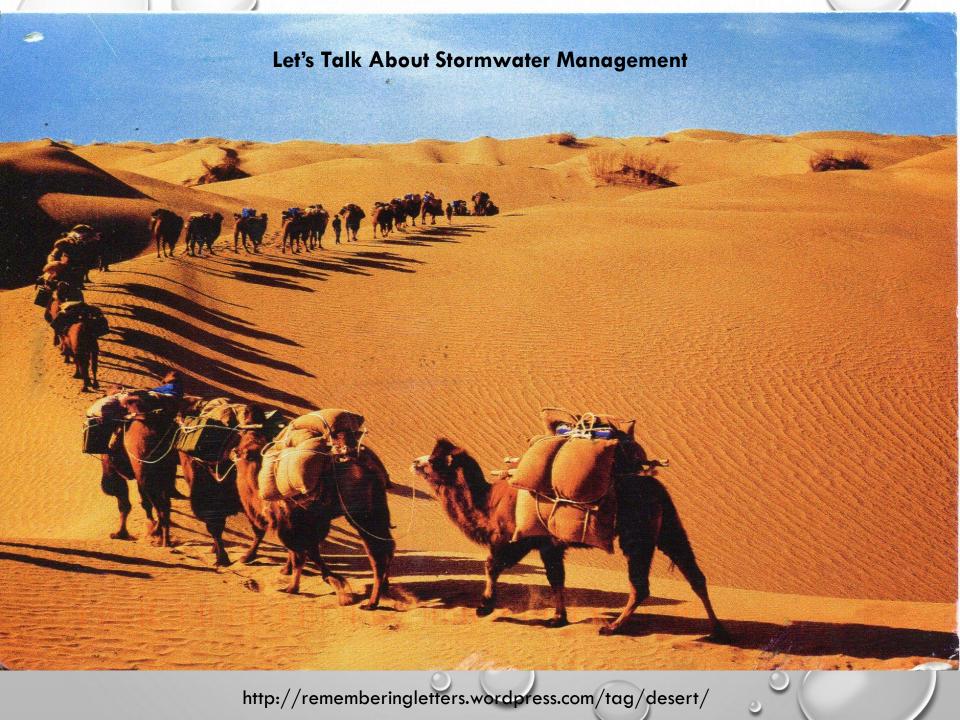
STORMWATER MANAGEMENT: WATERSHED APPROACHES AT THE LOCAL LEVEL

DAVID J. HIRSCHMAN

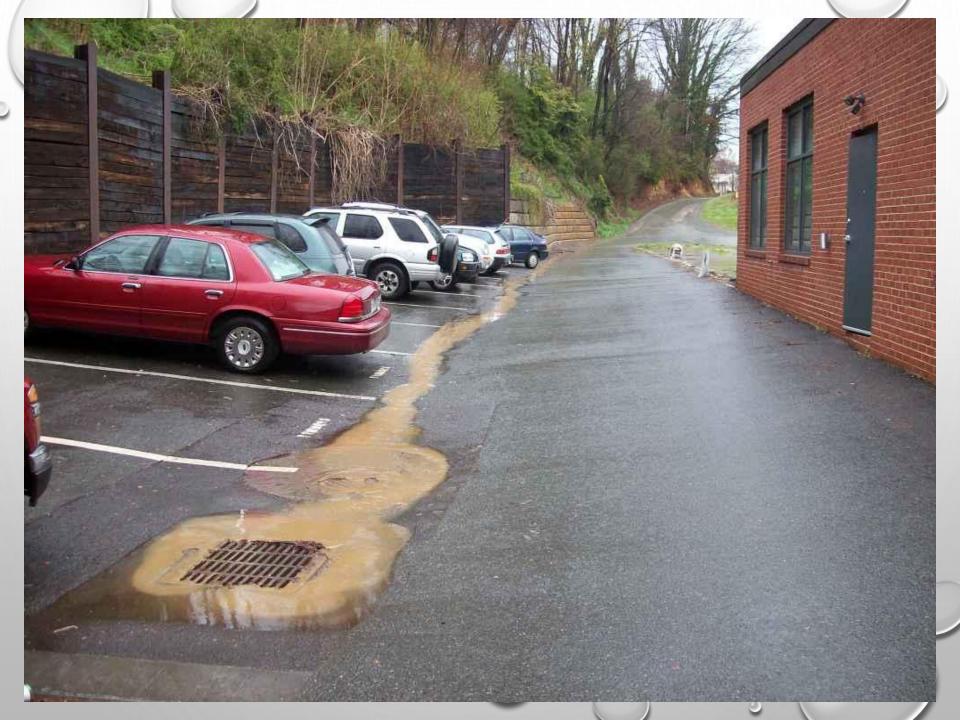
CENTER FOR WATERSHED PROTECTION







http://www.timeout.com/new-york-kids/attractions/summer-2013-new-exhibitions-for-families-at-nyc-museums



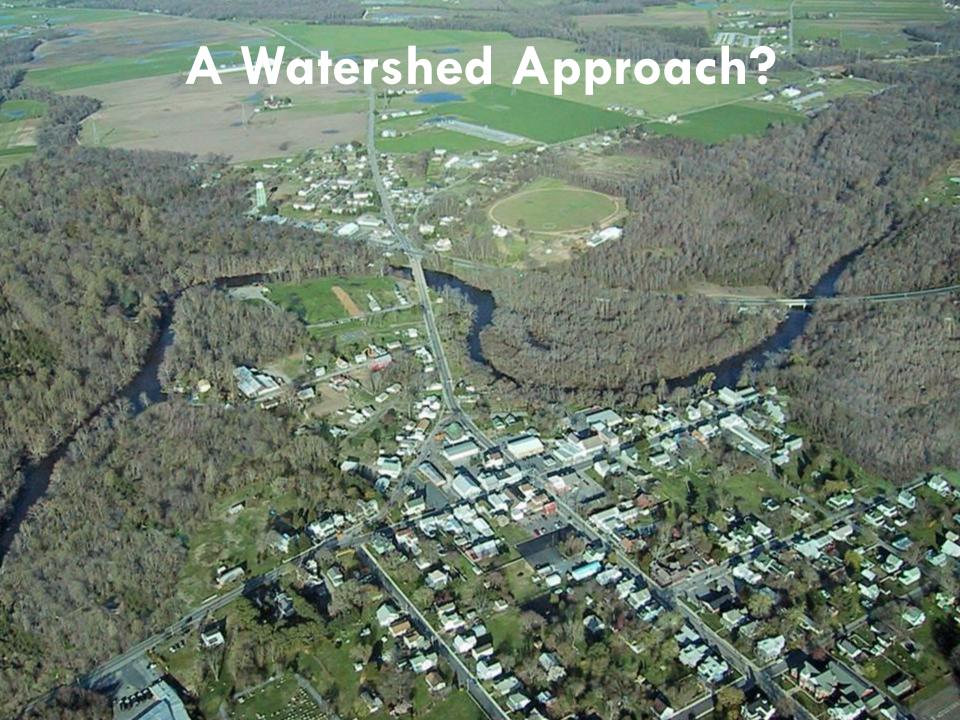
WHO IS REGULATED? WHO PAYS?





124 pounds of Phosphorus, 627 pounds of Nitrogen, 34,285 pounds of Total Suspended Solids. OK?





1. SMALL-SCALE PRACTICES



2. MODERATE-SCALE PRACTICES



3. LANDSCAPE-SCALE RESTORATION



Watershed Forestry



Urban Nutrient Management



Stream Restoration



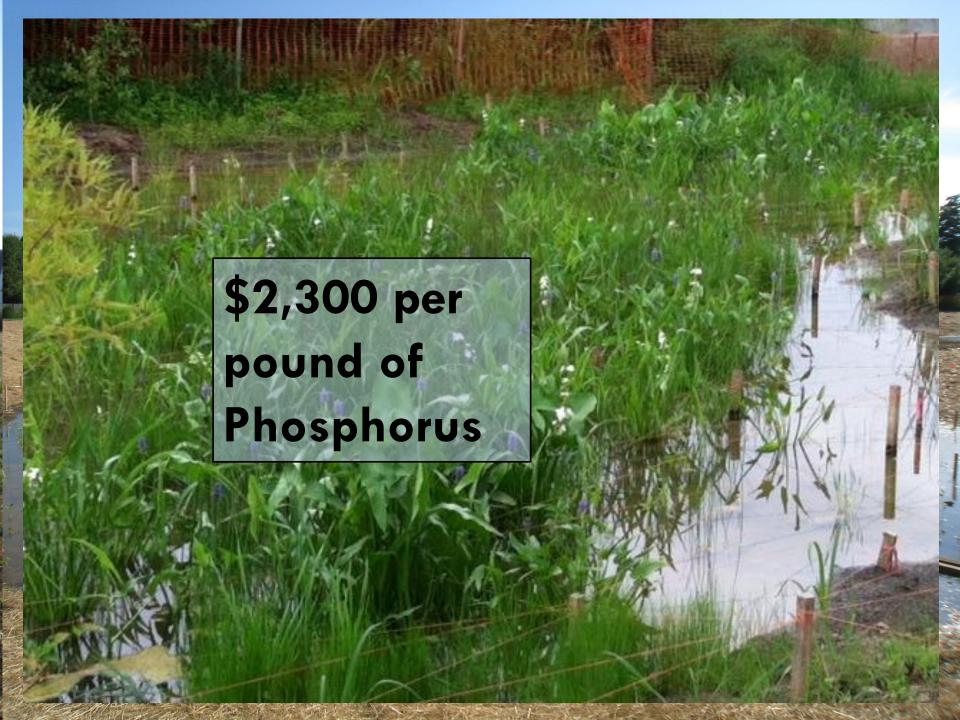
Illicit Discharges

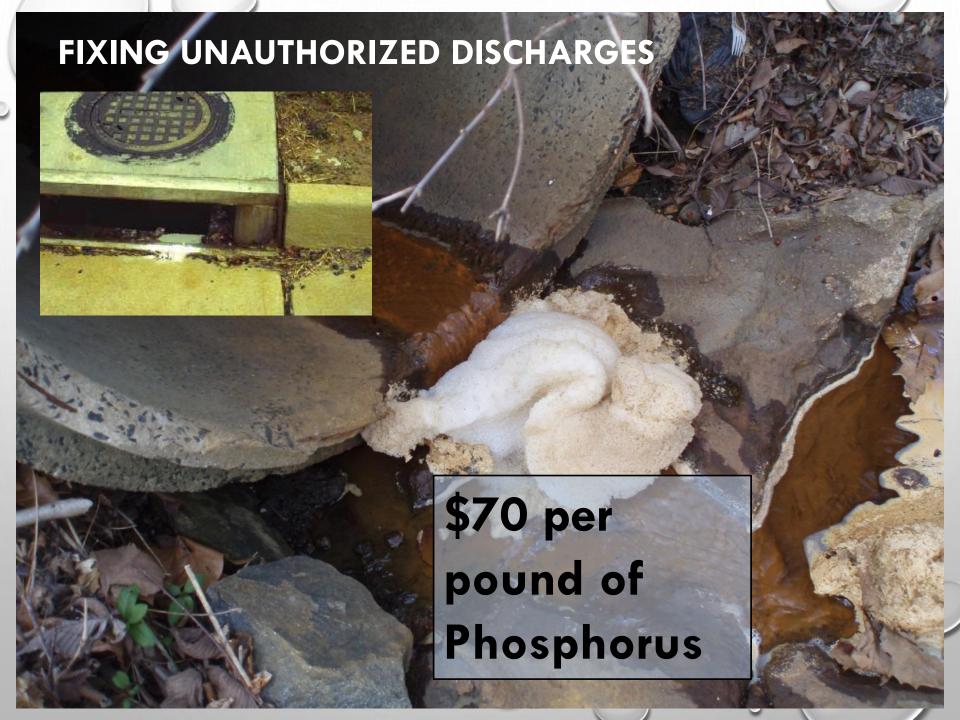
Paint Branch Watershed















LOCAL IMPLEMENTATION: STORMWATER + TMDLS

- PROGRAM DEVELOPMENT & ADMIN
- PLAN REVIEW
- INSPECTIONS
- MAINTENANCE
- COMPLIANCE
- TRACKING & REPORTING

- IN-HOUSE
- CONSULTANTS
- SWCDS/PDCS
- NEIGHBORING JURISDICTIONS (E.G., SHARED STAFF)
- OTHER?

REVENUE SOURCES

- DEDICATED:
 - ✓ STORMWATER UTILITY, USER FEE
 - ✓ STORMWATER FUND (E.G., \$0.01 FROM GENERAL FUND)

OTHER

- ✓ PLAN REVIEW, INSPECTION FEES
- ✓ REVOLVING LOAN FUNDS/OTHER LOANS
- ✓ NUTRIENT TRADING PROGRAM?
- ✓ SPECIAL DISTRICT TAX
- ✓ GRANTS
- ✓ BOND FINANCING

QUESTIONS

