

Suggested EID Outline/ Topics

A. Proposed Project and Funding Status

1. Project Purpose and Need (select at least one)
 - a. Water Quality/Water Quantity Problems
 - b. Public Health Concerns
 - c. Inadequate System or System Components
 - d. More Stringent Effluent Limits (wastewater only)
 - (1) Existing Effluent Limitations
 - (2) Proposed Effluent Limitations
 - e. Other (specify: _____)
2. Project Description
 - a. Project Summary
 - b. Planning Area Description (including a map with facilities)
 - c. Planning Period (time period)
 - d. Description of Project Construction Phases
 - e. Owner and Operator of the Facilities
 - f. Location of the Facilities
 - g. 8.5 X 11 inch, Black and White Project Map Suitable for Distribution
 - h. capacity
3. Relevant Design Parameters
 - a. Description of Major Unit Processes
 - b. Flow Diagram
 - c. Sewer/Water Pipe Lengths, Sizes, and Locations
 - d. Basic Design Criteria
 - e. Design Storm(s)
 - f. Description of Major Storm Water Components (Structural and Non-Structural)
 - g. Estimated Pollutant Removal Capability (i.e., performance criteria of structural components)
 - h. Other
 - i. Calculate annual energy requirements*
 - j. Determine source of energy and GHG emissions*
 - k. Calculate annual water requirements*
 - l. Water efficiency measures?*
 - m. Energy Efficiency measures?*
 - n. Renewable Energy produced?*
 - o. Green infrastructure?*
 - p. Reuse program implemented?
 - p. Proposed Total Project Cost
 - r. Portion of Total Project Cost Funded by EPA
 - s. List of Amount, Sources, and Status of All Funding Sources

B. Existing Environment As Pertains to Project

1. Public Health Problems Due to Water Quality
2. Water Quality Problems, Fish Kills, etc.

3. Water Quantity Problems (drought, arid conditions, groundwater overdrafts, location of water source from site?)
4. Surface & Ground water Hydrology
5. Drinking Water Sources and Supply
6. Physiography, Topography, Geology & Soils
7. Federally Endangered & Threatened Species
8. Air Quality (non-attainment area needs state sign-off)
9. Environmental Justice Information
 - a. Conditions, Minority & Low Income Areas (include median family income)
 - b. Census Maps
10. Land Use & Development, Percent Impervious Cover, Pollutant Sources
11. Identification of Floodplains and Wetlands

C. Existing Wastewater/Drinking Water/Storm Water System

1. General Description of Wastewater Collection & Treatment and Storm Water System & Map
2. Existing Wastewater System (wastewater only)
 - a. Wastewater Flows: Current Average, Peak, Wet Weather
 - b. Influent Characteristics
 - c. Major Industrial Users
 - d. Residuals (sludge) Disposal
 - e. Service Area
 - f. Infiltration and Inflow
 - g. Present capacity (is there excess capacity in digesters?)
 - h. Calculate annual energy requirements*
 - i. Determine source of energy and GHG emissions*
 - j. Calculate annual water requirements*
 - k. Water efficiency measures?*
 - l. Energy Efficiency measures?*
 - m. Renewable Energy produced?*
 - n. Green infrastructure?*
 - o. Reuse programs implemented?

D. Existing Drinking Water System (drinking water only)

1. Description of Treatment and Distribution System
 - a. Water Demand: Average, Peak
 - b. Surface Water Source (intake locations, permitted and actual withdrawal)
 - c. Ground water Source (wells & well fields)
 - d. Water Storage
 - e. Raw Water Characteristics
 - f. Residuals (sludge) and Backwash Disposal
 - g. Service Area
 - h. Calculate annual energy requirements*
 - i. Determine source of energy and GHG emissions*

- j. Calculate annual water requirements*
- k. Water efficiency measures?*
- l. Energy Efficiency measures?*
- m. Renewable Energy produced?*
- n. Green Infrastructure?

E. Existing Storm Water System (storm water only)

- 1. Detailed Description of Existing Storm Water System
 - a. Description of Major Structural Components
 - b. Description of Non-Structural Components/Actions-full cost pricing
 - c. Design Parameters/Performance Criteria/Permits.
 - d. Existing capacity and reuse program
 - e. Green infrastructure?*

F. Existing System Performance

- 1. National Pollutant Discharge Elimination System (NPDES) Violations
- 2. Safe Drinking Water Act Violations
- 3. Other System Problems

G. Need for Proposed Project

- 1. Expanded Description of Need
- 2. Land Use Projections/Impervious Cover/Pollutant Sources
- 3. Population Forecast/Projections
- 4. Calculations and Assumptions for Forecasted Flow and Waste load
- 5. Future Environment Without the Project

H. Analysis of Alternatives

- 1. Development of Alternatives
 - a. No-action
 - b. Optimum Utilization of existing facility
 - * (1) Renewable Energy Produced?
 - * (2) Reuse Program Implemented?
 - * (3) Water and Energy Efficiency measures?
 - * (4) Green Infrastructure?
 - c. New Construction Alternatives
 - d. Source Reduction
 - e. Non-structural and Structural Storm Water System Components
- 2. Alternative Screening (discussion for each alternative)
 - a. Criteria for Evaluating Alternatives
 - b. Assigning Weights for Criteria
 - i. Present Worth or Equivalent Annual Cost
 - ii. Reliability
 - iii. Complexity
 - iv. Environmental Factors
 - v. Feasibility (constraints)
 - vi. Flexibility

- vii. Water/Energy use comparison*
- 3. Identification of Preferred Alternative

I. Environmental Consequences and Mitigation Measures for Preferred, No Action, and Alternative Options

- 1. Direct
- 2. Secondary impacts of future growth & development
 - a. GHG Emissions*
 - b. Water/Energy use comparison*
- 3. Unavoidable Adverse Impacts
- 4. Minimization of Adverse Impacts
- 5. Mitigation
- 6. Cross-cutter Environmental Laws and Coordination and Consultation Process
 - a. Archeological Resources
 - b. Air Quality
 - c. Coastal Barrier Resources
 - d. Coastal Zones
 - e. Endangered Species
 - f. Environmental Justice
 - g. Floodplains
 - h. Wetlands
 - i. Protected Farmlands
 - j. Fish and Wildlife
 - k. National Historic Resources
 - l. Drinking Water Supplies
 - m. Wild and Scenic Rivers
 - n. Essential Fish Habitat
- 7. Intergovernmental Review per Executive Order 12372
- 8. Necessary Permits (NPDES, wetlands) issued
- 9. Necessary Inter-municipal Agreements Executed

J. Public Participation

- 1. Summary of Public Participation
- 2. Documentation of any Public Participation
 - a. Public Meeting Date & Record if applicable
 - b. Copy of any Publication/Copy of Newspaper Advertisement

**Encouraged but not required*