

US EPA ARCHIVE DOCUMENT

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*