Drinking Water Project Profile Pre-Application

Water Resource Information System

Mapping Requirements

DWSRF Ranking Criteria

* Project Title:

☐ This project is a REVISION of a previous submitted Project Profile.

Previously assigned WX #:

NARRATIVE

* Legal Applicant:

* Project Schedule:

* Primary County:

* Project Description

* Need for the Project

Briefly describe how this project promotes public health or achieves and/or maintains compliance with the Safe Drinking Water Act

Project Alternatives

Note: If project includes the construction of a new treatment plant or upgrade to existing plant, please explain regionalization options here.

* Alternative A

* Alternative B

Drinking Water Project Profile Pre-Application

Mapping Requirements
DWSRF Ranking Criteria

* Project Title:

☐ This project is a REVISION of a previous submitted Project Profile.

Previously assigned WX #:

APPLICANT

* Legal Applicant:

Contact

* First Name: MI: * Last Name:

Title:

* Phone: Ext:

EMail:

Authorized Official

* First Name: MI: * Last Name:

Title:

* Phone: Ext:

EMail:

ADMINISTRATION

Project Administrator

* First Name: MI: * Last Name:

Title:

Organization:

* Phone: Ext: Fax:

EMail:

Applicant Contact

* First Name: MI: * Last Name:

Title:

Organization:

* Phone: Ext: Fax:

EMail:

Project Engineer

* First Name: MI: * Last Name:

* Phone: Ext: Fax:

EMail:

* License #: * Firm Name:

Drinking Water Project Profile Pre-Application

Mapping Requirements
DWSRF Ranking Criteria

* Project Title:

☐ This project is a REVISION of a previous submitted Project Profile.

Previously assigned WX #:

BUDGET AND SCHEDULE

◯ Estimated Budget ◯ As-Bid Budget

Project Cost Classification

Administrative Expenses:	
Legal Expenses:	
Land, Appraisals, Easements:	
Relocation Expense & Payments:	
Planning:	
Engineering Fees - Design:	
Engineering Fees - Construction:	
Engineering Fees - Inspection:	
Engineering Fees - Other:	
Construction:	
Equipment:	
Miscellaneous:	
Contingencies:	
* **Total Project Cost:**	

Construction Cost Categories

Treatment:	
Transmission and Distribution:	
Source:	
Storage:	
Purchase of Systems:	
Restructuring:	
Land Acquisition:	
Non-Categorized Cost:	
Total Construction Cost:	

Project Funding Sources (Project Readiness Points Received: 30**)

FUNDING SOURCE	AMOUNT	STATUS	APPLICABLE DATE

Estimated Project Schedule

Estimate Environmental Review Submittal Date:
(Project Readiness Points Received: 30**)

Estimated Bid Date:

* Estimated Bid Date required if Funding Source is KIA SRF Fund F Loan (DW)

Estimated Construction Start Date:

* Estimated Construction Start Date required if Funding Source is KIA SRF Fund F Loan (DW)

Estimated Construction Completion Date:

Funding Source Notes:

**Project Readiness Points - Must meet all three criteria to receive points: 1) submitted plans to DOW for review, 2) Environmental Review cross cutter scoping process is complete, and 3) funding commitments from other funds or DWSRF is sole source.

Drinking Water Project Profile Pre-Application

Mapping Requirements
DWSRF Ranking Criteria

* Project Title: ☐

☐ This project is a REVISION of a previous submitted Project Profile.

Previously assigned WX #: ☐

IMPACTS

The following systems are beneficiaries of this project

Financial Need
MHI Below 80% of State's MHI (Points Received: 20)
MHI Between 80%-100% of State's MHI (Points Received: 10)

DOW PERMIT ID	SYSTEM NAME

Plans and Specifications (Project Readiness Points Received: 30**)

☐ Plans and specs have been sent to DOW.
Date: ☐

☐ Plans and specs have been sent to PSC.
Date: ☐

☐ Plans and specs have been reviewed by DOW.
Date: ☐

☐ Plans and specs have been reviewed by PSC.
Date: ☐

**Project Readiness Points - Must meet all three criteria to receive points: 1) submitted plans to DOW for review, 2) Environmental Review cross cutter scoping process is complete, and 3) funding commitments from other funds or DWSRF is sole source.

New Customers

New Residential Customers: ☐
New Institutional Customers: ☐
New Commercial Customers: ☐
New Industrial Customers: ☐

New or Improved Service

To Unserved Households: ☐
To Underserved Households: ☐

Economic Impacts

Jobs Created: ☐
Jobs Retained: ☐

DW Specific Impacts

☐ This project relates to a public health emergency.
☐ This project will assist a non-compliant system to achieve compliance.
☐ This project will assist a compliant system to meet future requirements.
☐ This project will provide assistance not compliance related.
☐ This project is necessary to achieve full or partial compliance with a court order, agreed order, or a judicial or administrative consent decree. (Points Received: 50)

Agreed Order Number: ☐

☐ Primary system has not received any SDWA Notices of Violation within the previous state fiscal year. (July - June) (Points Received: 25)

Drinking Water Project Profile Pre-Application

Mapping Requirements
DWSRF Ranking Criteria

* Project Title:

☐ This project is a REVISION of a previous submitted Project Profile.

Previously assigned WX #:

COMPONENTS

Administrative Components

☐ Planning
☐ Construction
☐ Design
☐ Management

Regionalization Components

Public Water Systems Eliminated (Points Received: 50)

☐ This project includes the elimination of public water system(s) through merger or acquisition.

DOW PERMIT ID	SYSTEM NAME

Water Treatment Plants Eliminated (Points Received: 25)

(GIS) - Must have mapping for proposed point(s) snapped to existing point(s) and set TYPE to WATER TREATMENT PLANT and set STATUS to WTP - ELIMINATE & INTERCONNECT

☐ This project includes the elimination of water treatment plant(s) through interconnect(s).

DOW PERMIT ID	SYSTEM NAME / FACILITY NAME

Supplementation of Raw Water Supply (Points Received: 15)

(GIS) - Must have mapping for proposed line(s) and set ACTIVITY to EXTENSION - RAW WATER INTERCONNECT

☐ This project includes supplementing the existing raw water supply.

SOURCE NAME

Drinking Water Project Profile Pre-Application

Mapping Requirements
DWSRF Ranking Criteria

* Project Title:

☐ This project is a REVISION of a previous submitted Project Profile.

Previously assigned WX #:

COMPONENTS (continued from Page 5)

Regionalization Components (continued)

Supplementation of Potable Water Supply (Points Received: 15)

☐ This project includes supplementing the existing potable water supply.

(GIS) - Must have mapping for proposed line(s) and set ACTIVITY to EXTENSION - FINISHED WATER INTERCONNECT

DOW PERMIT ID	SYSTEM NAME

Emergency Only Water Supply (Points Received: 15)

☐ This project provides emergency only water supply.

(GIS) - Must have mapping for proposed line(s) and set ACTIVITY to EXTENSION - EMERGENCY ONLY INTERCONNECT

DOW PERMIT ID	SYSTEM NAME

Water Source Protection

☐ This project includes land acquisition for water source protection.

Acres to be purchased:

Cost per acre:

Land Use Control:

(GIS) - Must have mapping for proposed point(s) and set TYPE to SOURCE WATER PROTECTION and set PURPOSE to SOURCE WATER PROTECTION - LAND ACQUISITION

Drinking Water Project Profile Pre-Application

* Project Title:

☐ This project is a REVISION of a previous submitted Project Profile.

Previously assigned WX #:

Mapping Requirements
DWSRF Ranking Criteria

COMPONENTS (continued from Page 6)

Water Treatment Components

☐ This project includes water treatment components.

Treatment Activities

☐ This project includes a new water treatment plant. (Points Received: 15)

Proposed design capacity (MGD):

(GIS) - Must have mapping for proposed point(s) and set TYPE to WATER TREATMENT PLANT, STATUS to NEW, and set PROPOSED CAPACITY

☐ This project includes an expansion of an existing plant. (Points Received: 15)

Current design capacity (MGD):

Proposed design capacity (MGD):

(GIS) - Must have mapping for proposed point(s) and set TYPE to WATER TREATMENT PLANT, STATUS to WTP - EXPANSION, and set EXISTING CAPACITY & PROPOSED CAPACITY

☐ This project includes rehabilitation of an existing plant. (Points Received: 30)

(GIS) - Must have mapping for proposed point(s) and set TYPE to WATER TREATMENT PLANT and STATUS to REHAB

☐ This project includes upgrades to an existing plant. (Points Received: 30)

(GIS) - Must have mapping for proposed point(s) and set TYPE to WATER TREATMENT PLANT and STATUS to WTP - UPGRADE

☐ This project includes emergency power generators for treatment activities. (Points Received: 10 each unit)

Number of units provided:

(GIS) - Must have mapping for proposed point(s) and set TYPE to GENERATOR and set PURPOSE to GENERATOR - WATER TREATMENT PLANT

☐ This project includes redundant treatment processes. (Points Received: 10 each unit)

Explanation of how redundant treatment processes will be achieved:

Acute Public Health Risk

☐ This project includes infrastructure options to meet Cryptosporidium removal/inactivation requirements. (Points Received: 25)

Explanation of how Cryptosporidium removal/inactivation will be achieved:

☐ This project includes infrastructure options to meet CT inactivation requirements. (Points Received: 20)

Explanation of how CT inactivation will be achieved:

Drinking Water Project Profile Pre-Application

* Project Title:

☐ This project is a REVISION of a previous submitted Project Profile.

Previously assigned WX #:

Mapping Requirements
DWSRF Ranking Criteria

COMPONENTS (continued from Page 7)

Water Treatment Components (continued)

Chronic Public Health Risk

☐ This project includes treatment modifications to meet the Disinfectants/Disinfection Byproducts Rule at the water treatment plant. (Points Received: 25)

Explanation of how Disinfection treatment modifications will be achieved:

☐ This project will provide treatment modifications for VOCs, IOCs, SOC, or Radionuclides. (Points Received: 15)

Explanation of how OC/Radionuclides treatment modifications will be achieved:

Secondary Contaminants

☐ This project includes treatment modifications to address Secondary Contaminants. (Points Received: 10)

Explanation of how Secondary Contaminants treatment modifications will be achieved:

Security

☐ This project includes security components for water treatment facilities. (Points Received: 5)

Treatment facility security is achieved as follows:

(GIS) - Must have mapping for proposed point(s) and set TYPE to SECURITY and set PURPOSE to SECURITY - WATER TREATMENT PLANT or SECURITY - BOTH WTP & DISTRIBUTION SYSTEM

Drinking Water Project Profile Pre-Application

Mapping Requirements
DWSRF Ranking Criteria

* Project Title:

☐ This project is a REVISION of a previous submitted Project Profile.

Previously assigned WX #:

COMPONENTS (continued from Page 8)

Water Distribution and Storage

☐ This project includes water distribution and/or storage components.

Water Line Extensions

First 10 Existing Households (Points Received: 20)
Additional 20 Existing Households (Points Received: 2)

Example: 150 Households

First 10 Households	*20 pts*
*140 remaining households (14*2pts=28 pts)*	*28 pts*
Total	*48 pts*

☐ This project includes water line extension(s).

Length of extensions (LF):

Number of new connections:

(GIS) - Must have mapping for proposed line(s) and set ACTIVITY to EXTENSION or EXTENSION - FINISHED WATER INTERCONNECT or EXTENSION - RAW WATER INTERCONNECT or EXTENSION - EMERGENCY ONLY INTERCONNECT

Redundancy Components (Total Points: 10)

☐ This project includes emergency power generators for the distribution system. (Points Received: 10 each unit)

Number of units provided:

(GIS) - Must have mapping for proposed point(s) and set TYPE to GENERATOR and set PURPOSE to GENERATOR - DISTRIBUTION SYSTEM

☐ This project includes redundant distribution equipment and/or storage activities. (Points Received: 10 each unit)

Explain the redundant distribution equipment:

Finished Water Quality (Total Points: 20)

☐ This project includes infrastructure to address inadequate water turnover and disinfection byproducts (DBPs). (Points Received: 20)

Number of loops created:

☐ This project includes a tank mixing system. (Points Received: 20)

Inadequate turnover and DBPs is addressed as follows:

Drinking Water Project Profile Pre-Application

* Project Title:

☐ This project is a REVISION of a previous submitted Project Profile.

Previously assigned WX #:

Mapping Requirements
DWSRF Ranking Criteria

COMPONENTS (continued from Page 9)

Water Distribution and Storage (continued)

Water Line Replacement

☐ This project replaces problem water lines (breaks, leaks, or restrictive flows due to age), water lines consisting of lead and/or asbestos-cement (AC), and/or inadequately sized water lines. (Points Received: 20 (first 1000LF) 5 (per add'l 1000LF)

Total length of line replacement (LF):

(GIS) - Must have mapping for proposed line(s) and set ACTIVITY to REHAB - REPLACE PROBLEM LINES or REHAB - REPLACE LEAD AND/OR ASBESTOS-CEMENT LINES or REHAB - REPLACE UNDERSIZED LINES

Water Storage and Pressure Components

☐ This project includes the construction of new water tank(s). (Points Received: 10)

Number of new tank(s):

Proposed storage capacity of new tank(s) (GALLONS):

(GIS) - Must have mapping for proposed point(s) and set TYPE to WATER TANK, set STATUS to NEW, and set PROPOSED CAPACITY

Reason for increased storage:

Drinking Water Project Profile Pre-Application

Mapping Requirements
DWSRF Ranking Criteria

* Project Title:

☐ This project is a REVISION of a previous submitted Project Profile.

Previously assigned WX #:

COMPONENTS (continued from Page 10)

Water Distribution and Storage (continued)

Water Storage and Pressure Components (continued)

☐ This project includes the replacement of existing water tank(s). (Points Received: 10 each)

Number of replacement tank(s):

Number of decommissioned tank(s):

Existing storage capacity of tank(s) being decommissioned (GALLONS):

Proposed storage capacity of replacement tank(s) (GALLONS):

(GIS) - Must have mapping for proposed points and set TYPE to WATER TANK, set STATUS to REPLACE - NEW, and set PROPOSED CAPACITY for replacement tank(s); AND set STATUS to REPLACE - DECOMMISSION, and set EXISTING CAPACITY for decommissioned tank(s)

Reason for replacement storage:

☐ This project includes the rehabilitation of existing water tank(s). (Points Received: 30 each)

Number of rehabilitated tanks:

(GIS) - Must have mapping for proposed point(s) and set TYPE to WATER TANK and set STATUS to REHAB

☐ This project includes the construction of new pump station(s). (Points Received: 10 each)

Number of new pump stations:

(GIS) - Must have mapping for proposed point(s) and set TYPE to PUMP STATION and set STATUS to NEW

☐ This project includes new pump stations for boosting pressure.

(GIS) - Must have mapping for proposed point(s) and set TYPE to PUMP STATION, set STATUS to NEW, and set PURPOSE to PUMP - BOOST PRESSURE

☐ This project includes new pump stations for filling water tanks.

(GIS) - Must have mapping for proposed point(s) and set TYPE to PUMP STATION, set STATUS to NEW, and set PURPOSE to PUMP - FILL TANK

☐ This project includes the rehabilitation of existing pump station(s). (Points Received: 10 each)

Number of rehabilitated pump stations:

(GIS) - Must have mapping for proposed point(s) and set TYPE to PUMP STATION and set STATUS to REHAB

Security

☐ This project includes security components for water distribution infrastructure. (Points Received: 5)

Distribution infrastructure security is achieved as follows:

(GIS) - Must have mapping for proposed point(s) and set TYPE to SECURITY, and set PURPOSE to SECURITY - DISTRIBUTION SYSTEM or SECURITY - BOTH WTP & DISTRIBUTION SYSTEM

Drinking Water Project Profile Pre-Application

* Project Title:

☐ This project is a REVISION of a previous submitted Project Profile.

Previously assigned WX #:

Mapping Requirements
DWSRF Ranking Criteria

SUSTAINABLE INFRASTRUCTURE

Green Infrastructure (Points Received: 5 each / 10 maximum)

Green stormwater infrastructure includes a wide array of practices at multiple scales that manage wet weather and that maintains and restores natural hydrology by infiltrating, evapotranspiring and harvesting and using stormwater. On a regional scale, green infrastructure is the preservation and restoration of natural landscape features, such as forests, floodplains, and wetlands, coupled with policies such as infill and redevelopment that reduce overall imperviousness in a watershed. On the local scale, green infrastructure consists of site- and neighborhood-specific practices, such as:

☐ Bioretention — Cost:

☐ Trees — Cost:

☐ Green Roofs — Cost:

☐ Permeable Pavement — Cost:

☐ Cisterns — Cost:

Total Green Infrastructure Costs:

If any box(es) above are checked, please describe each below.

Water Efficiency (Points Received: 15 each, no maximum)

The use of improved technologies and practices to deliver equal or better services with less water. Water efficiency encompasses conservation and reuse efforts, as well as water loss reduction and prevention, to protect water resources for the future. Examples include:

☐ Installing or retrofitting water efficient devices such as plumbing fixtures and appliances (toilets, showerheads, urinals). — Cost:

☐ Installing any type of water meter in previously unmetered areas (can include backflow prevention if in conjunction with meter replacement). — Cost:

(GIS) - Must have mapping for proposed point(s) and set TYPE to MASTER METER, RADIO METER, or TRADITIONAL METER and set PURPOSE to WATER EFF - UNMETERED AREA

☐ Replacing existing broken/malfunctioning water meters with AMR or smart meters, meters with leak detection, backflow prevention. — Cost:

☐ Retrofitting/adding AMR capabilities or leak equipment to existing meters. — Cost:

(GIS) - Must have mapping for proposed point(s) and set TYPE to MASTER METER, RADIO METER, or TRADITIONAL METER and set PURPOSE to WATER EFF - AMR CAPABILITIES

☐ Conducting water utility audits, leak detection studies, and water use efficiency baseline studies, which are reasonably expected to result in a capital project or in a reduction in demand to alleviate the need for additional capital investment. — Cost:

☐ Developing conservation plans/programs reasonable expected to result in a water conserving capital project or in a reduction in demand to alleviate the need for capital investment. — Cost:

☐ Recycling and water reuse projects that replace potable sources with non-potable sources (Gray water, condensate, and wastewater effluent reuse systems, extra treatment or distribution costs associated with water reuse). — Cost:

☐ Retrofit or replacement of existing landscape irrigation systems to more efficient landscape irrigation systems. — Cost:

Drinking Water Project Profile Pre-Application

* Project Title:

☐ This project is a REVISION of a previous submitted Project Profile.

Previously assigned WX #:

Mapping Requirements
DWSRF Ranking Criteria

SUSTAINABLE INFRASTRUCTURE (continued from Page 12)

Water Efficiency (continued)

☐ Water meter replacement with traditional water meters.* Cost:

(GIS) - Must have mapping for proposed point(s) and set TYPE to TRADITIONAL METER and set PURPOSE to WATER EFF - TRADITIONAL METERS

☐ Distribution pipe replacement or rehabilitation to reduce water loss and prevent water main breaks.* Cost:

(GIS) - Must have mapping for proposed line(s) and set ACTIVITY to REHAB - REPLACE LEAD AND/OR ASBESTOS-CEMENT LINES, REHAB - REPLACE PROBLEM LINES, or REHAB - REPLACE UNDERSIZED LINES and set PURPOSE to DISTRIBUTION - WATER EFF - LINE WATER LOSS

☐ Storage tank replacement/rehabilitation to reduce water loss.* Cost:

(GIS) - Must have mapping for proposed point(s) and set TYPE to WATER TANK and set PURPOSE to WATER EFF - TANK WATER LOSS

☐ New water efficient landscape irrigation system, where there currently is not one.* Cost:

*Denotes that a Business Case may be Required.

Total Water Efficiency Costs:

If any box(es) above are checked, please describe each below.

Energy Efficiency (Points Received: 15 each, no maximum)

Energy efficiency is the use of improved technologies and practices to reduce the energy consumption of water projects, use energy in a more efficient way, and/or produce/utilize renewable energy. Examples include:

☐ Renewable energy projects, which are part of a public health project, such as wind, solar, geothermal, and micro-hydroelectric that provides power to a utility. Cost:

☐ Utility-owned or publicly-owned renewable energy projects. Cost:

☐ Utility energy management planning, including energy assessments, energy audits, optimization studies, and sub-metering of individual processes to determine high energy use areas. Cost:

☐ Energy efficient retrofits, upgrades, or new pumping systems and treatment processes (including variable frequency drives (VFDs).* Cost:

(GIS) - Must have mapping for proposed point(s) and set TYPE to PUMP STATION, WATER PUMP, or WATER TREATMENT PLANT and set PURPOSE to ENERGY EFF - VFD DEVICE

☐ Pump refurbishment to optimize pump efficiency.* Cost:

(GIS) - Must have mapping for proposed point(s) and set TYPE to PUMP STATION, WATER PUMP, or WATER TREATMENT PLANT and set PURPOSE to ENERGY EFF - PUMP EFFICIENCY

☐ Projects that result from an energy efficient related assessment.* Cost:

☐ Projects that cost effectively eliminate pumps or pumping stations.* Cost:

(GIS) - Must have mapping for proposed point(s) and set TYPE to PUMP STATION, WATER PUMP, or WATER TREATMENT PLANT and set PURPOSE to ENERGY EFF - PUMP ELIMINATION

☐ Projects that achieve the remaining increments of energy efficiency in a system that is already very efficient.* Cost:

☐ Upgrade of lighting to energy efficient sources.* Cost:

Drinking Water Project Profile Pre-Application

* Project Title:

☐ This project is a REVISION of a previous submitted Project Profile.

Previously assigned WX #:

Mapping Requirements
DWSRF Ranking Criteria

SUSTAINABLE INFRASTRUCTURE (continued from Page 13)

Energy Efficiency (continued)

☐ Automated and remote control systems (SCADA) that achieve substantial energy savings.* Cost:

(GIS) - Must have mapping for proposed point(s) and set TYPE to SCADA, set STATUS to NEW or REHAB, and set PURPOSE to ENERGY EFF - SCADA

*Denotes that a Business Case may be Required.

Total Energy Efficiency Costs:

If any box(es) above are checked, please describe each below.

Environmentally Innovative (Points Received: 5 each / 10 maximum)

Environmentally innovative projects include those that demonstrate new and/or innovative approaches to delivering services or managing water resources in a more sustainable way. Examples include:

☐ Total integrated water resources management planning, or other planning framework where project life cycle costs are minimized, which enables communities to adopt more efficient and cost-effective infrastructure solutions. Cost:

☐ Plans to improve water quantity and quality associated with water system technical, financial, and managerial capacity. Cost:

☐ Source water protection planning (delineation, monitoring, modeling). Cost:

☐ Planning activities to prepare for adaptation to the long-term effects of climate change and/or extreme weather. Cost:

☐ Utility sustainability plan consistent with EPA's sustainability policy. Cost:

☐ Greenhouse gas inventory or mitigation plan and submission of a GHG inventory to a registry as long as it is being done for an SRF eligible facility. Cost:

☐ Construction of US Building Council LEED certified buildings, or renovation of an existing building. Cost:

☐ Projects that significantly reduce or eliminate the use of chemicals in water treatment.* Cost:

☐ Treatment technologies or approaches that significantly reduce the volume of residuals, minimize the generation of residuals, or lower the amount of chemicals in the residuals.* Cost:

☐ Trenchless or low impact construction technology.* Cost:

☐ Using recycled materials or re-using materials on-site.* Cost:

☐ Educational activities and demonstration projects for water or energy efficiency (such as rain gardens).* Cost:

☐ Projects that achieve the goals/objectives of utility asset management plans.* Cost:

*Denotes that a Business Case may be Required.

Total Environmentally Innovative Costs:

Drinking Water Project Profile Pre-Application

* Project Title:

☐ This project is a REVISION of a previous submitted Project Profile.

Previously assigned WX #:

Mapping Requirements
DWSRF Ranking Criteria

SUSTAINABLE INFRASTRUCTURE (continued from Page 14)

Environmentally Innovative (continued)

If any box(es) above are checked, please describe each below.

Asset Management

If a category is selected, the applicant must provide proof to substantiate claims. In order to complete this section, the documents must be submitted to the Area Development District Water Management Coordinator.

☐ System has an Asset Management Plan that includes asset inventory, strategic plan and a capital improvement plan. (Points Received: 50)

☐ System has an asset inventory and a capital improvement plan. Points Received: 30)

☐ System has a capital improvement plan. (Points Received: 10)

☐ System has an asset inventory. (Points Received: 10)

System's monthly wastewater bill, based on 4,000 gallons, as a percentage of Median Household Income is

☐ Greater than or equal to 2.0%. (Points Received: 10)

☐ Between 1 and 1.99% (Points Received: 5)

☐ Below 1% (Points Received: 0)

If any box(es) above are checked, please describe each below.