

# America's Water Infrastructure Act (SDWA 1433)

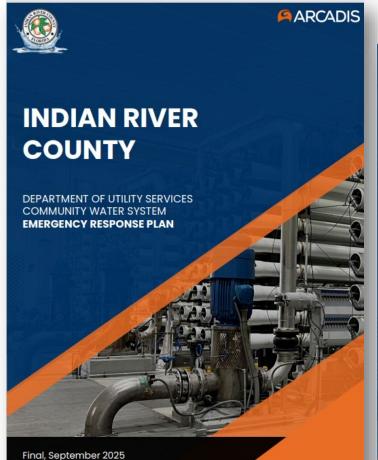
Mandates water systems serving >3,300 to:

- Update Risk and Resilience Assessment (RRA) of the risks to, and resilience of, its water system
- 2. Update Emergency Response Plan (ERP)

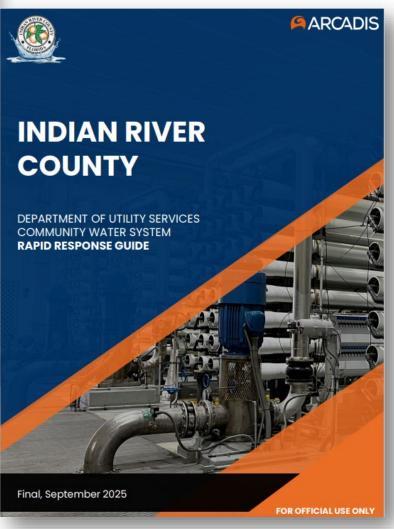
Note: Required update every five years

#### **Certification Deadlines:**

**RRA:** March 31, 2025 **ERP:** September 30, 2025







IRCDUS Certified Final ERP on September 19<sup>th</sup>, 2025

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# **Emergency Preparedness**

#### Aligns with.....

- Local, state, and federal standards
- Federal Emergency Management Agency (FEMA) guidelines
- Department of Homeland Security (DHS) guidelines
- Indian River County Department of Emergency Services plans
- IRCDUS response plans and procedures
- US Environmental Protection Agency (EPA) guidance
- Safe Drinking Water Act (SDWA) Section 1433 requirements





# What is an ERP?

This plan is used by IRCDUS to enable activation and operations of the water system during times of emergencies/disasters, including:

- Roles and responsibilities of IRCDUS and stakeholders
- Monitoring, activation, implementation, and administration
- Operations, response, and recovery actions
- Support and coordination of resources

Strategies and resources to improve the resilience of the system

Response plans and procedures

**Actions**, *procedures*, and **equipment** which can lessen the impact of a threat or hazard

Strategies to support **detection** of malevolent acts or natural hazards

Coordinate with local emergency planning committees (LEPCs)



Describe WHO
does WHAT...
(but not the HOW)

....Focus on strategies & resources

(reference SOPs & other plans)

SDWA Requirements



# **Emergency Response Plan**



ERP meets USEPA guidelines



Includes RRA Findings

- Risks
- Mitigation



Specific Requests from staff to enhance the plan



Emergency Contacts



Evacuation Maps & Assembly Areas



Resources



System Description and Assets



Hazard/Incident-Specific Response Procedures



Incident Lessons Learned



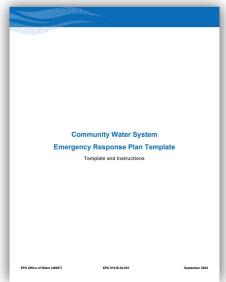
## **ERP Structure**

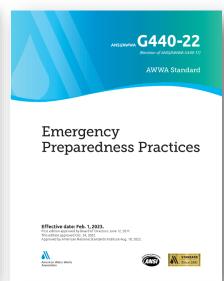
#### Guidance

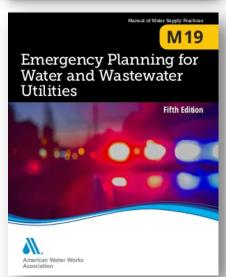
- US EPA Large System ERP Template
- American Water Works Association (AWWA) G440 Emergency Preparedness
- AWWA M19 Emergency Preparedness and Response
- FEMA Comprehensive Preparedness Guide 101 (CPG-101)

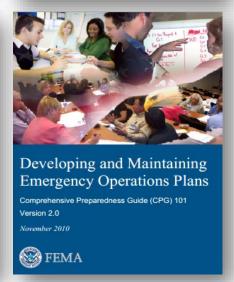
### **Approach and Content**

- ERP focuses on an all-hazards approach Addresses natural hazards, malevolent acts, accidents, technological events
- Addresses and incorporates Risk and Resilience Assessment (RRA) results and mitigation measures











# **ERP Content**

#### Base Plan

### Introductory Pages

- Handling and Open Records Information
- 2. AWIA Certification Statement
- 3. Approval Page
- 4. Compliance Crosswalk
- 5. Revision Log
- 6. Distribution List

#### Sections

- 1. Introduction
- 2. Concept of Operations
- Emergency Resources
- 4. Recovery Phase
- Communications and Reporting
- Emergency
   Procurement and
   Reimbursement
- 7. Detection Strategies
- 8. Mitigation Actions
- Training and Exercise Program

### Appendices

- A. IRCDUS Contact Lists
- B. Evacuation Maps
- C. Incident-Specific Response Procedures (ISRPs)
- D. Generator, Equipment and Inventory Lists
- E. IRCDUS Forms
- F. Incident Command System (ICS)
- G. Training and Exercise Guides
- H. Recovery Phase
- ERP Documentation (LEPC, and others)
- J. Acronyms
- K. References and Resources

### Rapid Response Guide

- 1. Initial Response Actions
- 2. Emergency Contact List
- 3. Emergency Operations Centers
- Emergency Action Levels
- Incident Management Team
- 6. Key System Information
- 7. Key System Diagrams
- 8. All Hazards Incident Response Flow Diagram
- Water System Generator List

# **Tabletop Exercise (TTX)**

**ARCADIS** 

- Tested ERP and Rapid Response Guide
- Designed a realistic scenario of a Hurricane and HAZMAT release with IRCDUS planning team
- Followed Homeland Security Exercise and Evaluation Program (HSEEP) guidelines
- Included an After-Action Report (AAR) and a Review Meeting
- The Final ERP incorporated AAR lessons learned (SUCCESS!!)







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