The views, opinions and findings contained in this report are those of the author(s) and should not be construed as an official Department of the Army position, policy or decision, unless so designated by other official documentation.

MAHONING RIVER BASIN WATER CONTROL MANUAL UPDATES

June 26 and July 24, 2019
Public Scoping Meetings
WHAT IS A WATER CONTROL MANUAL?

Engineering Regulation (ER) 1110-2-8156 states:

• The main purpose of a Water Control Manual (WCM) is for day-to-day use in water management under variable conditions that may affect a project or a system.
  
• WCMs provide a reference source on project issues, authorities, data, schedules, and all other information necessary to regulate a project.

The required WCM chapters are as follows:

• Chapters 1, 2, 3 – provides background information on the dam & reservoir
  
• Chapters 4, 5, 6 – provide water management related information
  
• Chapters 7, 8 – project’s water control plan
WHAT ARE THE DAY TO DAY USES OF OUR RESERVOIRS?

These three reservoirs each have 6 authorized purposes.

<table>
<thead>
<tr>
<th>Dam &amp; Reservoir</th>
<th>Flood Control (Primary)</th>
<th>Water Quality (Primary)</th>
<th>Water Supply (Primary)</th>
<th>Low-Flow Augmentation (Primary)</th>
<th>Fish &amp; Wildlife (General)</th>
<th>Recreation (General)</th>
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<tr>
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<td>MJ Kirwan</td>
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WHY ARE WE HERE TODAY?

Purpose of Today’s Meeting
• To explain how the district plans to study reservoir operations in the Mahoning River Basin
• To provide an opportunity for you to submit comments to help shape the study

Purpose of the Water Control Manual Update
• The Mahoning River Basin Water Control Manual Updates Project will allow the Corps to perform a comprehensive analysis of all three reservoirs, Berlin, Michael J. Kirwan and Mosquito.
• The goal of the analysis is to reassess the watershed and our reservoirs to ensure they are adequately operated and designed for present and future needs.
WHAT IS INVOLVED IN THE WATER CONTROL MANUAL UPDATE?

Main Project Tasks include:
• Hydrology & Hydraulic Modeling
• Water Quality Modeling
• Water Control Manual Updates
• Environmental Assessment
## PROJECT TIMELINE

### Key Milestones:
- **Jun/Jul 2019:** Regulatory Agency/Public Meetings
- **Jun 2019:** H&H Work Begins
- **Aug 2019:** WQ Work Begins
- **Aug 2020:** Public Meetings
- **Nov 2020:** EA Begins
- **Feb 2021:** H&H/WQ Modeling Complete
- **Apr 2021:** Finalize WCMs
- **May 2021:** Submission to LRD/HQ
- **Dec 2021:** LRD/HQ Approval of WCMs
- **Feb 2022:** Public Meetings
- **Mar 2022:** Project Complete/Implementation

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### Table: Project Timeline

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### Diagram: Project Flow

- **Hydrologic & Hydraulic Modeling**
- **Water Quality Modeling**
- **Environmental Assessment**
- **Manual Updates**
- **HQ Review**

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**Project Coordination**

- **Public Meetings**

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**Public Meetings**

- **Project Complete**
STEPS TO UPDATING THE WATER CONTROL MANUAL

The following sections outline the layout of a Water Control Manual:

• Section 1 – Introduction
• Section 2 – Description of Project
• Section 3 – History of Project

• Section 4 – Watershed Characteristics
• Section 5 – Data Collection and Communication Networks
• Section 6 – Hydrologic Forecasts

• Section 7 – Water Control Plan
• Section 8 – Effect of Water Control Plan
• Section 9 – Water Control Management
• Appendices include: Plates, Tables and Exhibits

Background on the Reservoir

Step 1: Water Management Related Information
Modeling Existing Conditions

Step 2: Water Control Plan

BUILDING STRONG®
and Taking Care of People!
HOW CAN THE PUBLIC ASSIST WITH THE PROJECT?

QUESTIONS TO CONSIDER
• How do reservoir operations of the Mahoning River Basin system impact you or resources that are important to you?
• What are some of the challenges that you see with current system operations?
• What opportunities are there for improving system operations?
• What data/information do you have available that you can provide?
• What changes do you anticipate seeing in the watershed?

• Economic data
  • Economic impacts based on pool level
  • Estimated costs of impacts
• Information that may influence Modeling
  • Meteorological Information (high water marks, etc.)
  • Sediment Information
  • Water Quality Information
• Information that may influence potential changes to reservoir operations
  • Flooding issues/concerns
  • Low flow issues/concerns
  • Downstream flow requirements/regulations
• Any other information
CONTACT INFORMATION

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  • Email: Douglas.A.Krider@usace.army.mil

• Bill Spring, Mosquito Creek Lake Resource Manager
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  • Email: William.J.Spring@usace.army.mil

WAYS TO COMMENT

By Comment Card:
Submit your comment card during the public meeting. Or,

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LRP Public Affairs
USACE Pittsburgh District
1000 Liberty Avenue
Pittsburgh, PA 15222

By Email:
CELRP-PA@usace.army.mil
QUESTIONS?