

Revising Your Maps:

Insights on the CLOMR/LOMR Process

Liana M. Winsauer, P.E.

IDNR, Office of Water Resources

When is IDNR/OWR Concurrence Required?

OWR Jurisdiction:

- Drainage area > 1 sq. mi. (urban/urbanizing)
- Drainage area > 10 sq. mi. (rural)

OWR Concurrence:

- Changes in Regulatory Conditions
- Flows and/or Base Flood Elevations
- Floodways
- Letters of Map Amendment

Submittal Requirements

Submittal Checklist:

- Narrative
- Maps
- Schematic
- Supporting Calculations
- Summary Tables

Narrative:

- Study purpose & methods used
- Rainfall & Distribution
- Critical Duration Analysis
- Calibration

Maps & Schematic:

- Location
- Aerial Photos
- Topography
- Land Use
- Soils
- Floodplain Map
- Model Schematic
- Subbasins
- Cross-Sections
- Other Significant Points

Supporting Calculations:

- CN Values
- Lag Time/TC
- Rating Curves
- Routing

Models:

- Hydrologic
- Hydraulic
- Floodway Definition
- Structure-Specific
- Electronic copies of all
- Hard copies of selected

Summary Tables:

- Hydrologic Analyses
- Sensitivity Analysis
- Hydraulic Analyses
- Floodway Definition
- For study revision, include existing & proposed conditions

Forms:

- Present data logically!
- Interactive PDF available

Common Problems

Incomplete Narrative:

- Signed & Sealed
- Overall methodology
- Rainfall & Distribution
- Calibration
- One page is not sufficient!

Missing Critical Duration Analysis, which should include flows for:

- Each rainfall
- Each subbasin

Floodway Definition:

- 0.1 ft Stage Increase
- 10% Velocity Increase
- 90% Storage Volume

Missing or Incomplete Summary Tables:

- Critical Duration Analysis
- Existing vs. Proposed Conditions
- Floodway Definition

Review:

IDNR Concurrence is required for regulatory changes

Submittal requirements are listed on handout

Common problems boil down to incomplete submittals.

Liana M. Winsauer, P.E.

Floodplain Studies Engineer

IDNR, Office of Water Resources

847-608-3166

Liana.Winsauer@illinois.gov



New Hydrology/Flow Approval Checklist

Narrative

- Project Description
- General Location Map
- Analysis Methods
- Rainfall Amounts
- Rainfall Distributions
- Sensitivity Analysis
- Calibration
- Documentation of Restrictive Road Crossings
- Signed & Sealed by P.E.

Maps & Schematics

- Include Subbasins & Names
- Include Other Significant Points
- Aerial Photography
- Topography
- Land Use
- Soils
- Floodplain/Floodway
- Model Schematic

Supporting Calculations

- Curve Numbers
- Lag Time/TC
- Rating Curves
- Routing Parameters

Models

- Hydrologic - Print & Electronic
- Hydraulic - Print & Electronic
- Floodway Definition
- Structure-Specific

Summary Tables

- Subbasin & Section IDs
- General Hydrology Results
- Sensitivity Analysis
- General Hydraulic Results
- Floodway Definition

