Revising Your Maps:

Insights on the CLOMR/LOMR Process

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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 Definiton
- 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.

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New Hydrology/Flow Approval Checklist

□Narrative	☐ Supporting Calculations
□ Project Description	☐ Curve Numbers
☐ General Location Map	☐ Lag Time/TC
□ Analysis Methods	□ Rating Curves
☐ Rainfall Amounts	☐ Routing Parameters
☐ Rainfall Distributions	□Models
□ Sensitivity Analysis	☐ Hydrologic - Print & Electronic
☐ Calibration	☐ Hydraulic - Print & Electronic
□ Documentation of Restrictive	☐ Floodway Definition
Road Crossings	☐ Structure-Specific
☐ Signed & Sealed by P.E.	☐ Summary Tables
☐ Maps & Schematics	☐ Subbasin & Section IDs
☐ Include Subbasins & Names	☐ General Hydrology Results
☐ Include Other Significant Points	☐ Sensitivity Analysis
☐ Aerial Photography	☐ General Hydraulic Results
☐ Topography	☐ Floodway Definition
☐ Land Use	
☐ Soils	
☐ Floodplain/Floodway	
☐ Model Schematic	

Discharge Certification Form

Applicant Information

Agency/Firm:	_ Date:_		
Submitted By:	_ Phone:		
Address:			
Applicant/Property Owner:			
Hydrologic Information			
Community or Communities Affected:			
County:Quadrangle Name(s):			
lame:			
e Study and			
Model Calibration? Yes No Study Models:			
Discharge Certification Locations			
	DRAINAGE	CERTIFIED DISCHARGES	OTHER FREQUENCIES

* 🗆							
:						NAME	0
						Identifying Landmark*	
						Legal Description (Sec., Twp., Range)	
:						DRAINAGE AREA (Sq. Mi.)	
						100-Y _{EAR} (CFS)	CERTIFIED DISCHARGES
:						10-Y _{EAR} (CFS)	ISCHARGES
: : :						Frequency (Years)	OTHER FREQUENCIES
						F _{LOW} (CFS)	EQUENCIES

Locations should be based on physical landmarks, such as "1000 ft. upstream Main St." Please attach a map showing the locations with identifiers.