



## COLORADO

### Colorado Water Conservation Board

Department of Natural Resources

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**TO:** Colorado Water Conservation Board Members

**FROM:** Kevin Houck, P.E. CFM, Section Chief  
Watershed & Flood Protection Section  
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**DATE:** September 18, 2024

**AGENDA ITEM:** Consent Agenda Item 5. September 18-19, 2024 Board Meeting - Floodplain Designations

**Background:** Consent Agenda Item 5 includes 2 new floodplain studies that are proposed for CWCB action. Staff is requesting Board designation and approval for these items. A brief summary of the studies are presented in the attached document.

CWCB staff performs technical reviews of floodplain information to assure the Board that the information complies with the requirements of the CWCB's "Rules and Regulations for Regulatory Floodplains in Colorado," 2 CCR 408-1. The attached document provides a further discussion of legislative authority and responsibilities delegated to the CWCB. The CWCB's designation and approvals greatly assist local communities in meeting the statutory requirements of the State and the regulatory requirements of the National Flood Insurance Program.

Additional supporting information for these items are attached.

**Requested action for Floodplain Resolution 24-745:** Staff recommends that the Board: 1) designate and approve the 100-year and 500-year detailed floodplain, 100-year and 500-year approximate, and floodway information contained in said report for Hinsdale County and Incorporated Areas, and the Town of Lake City and 2) authorize staff to prepare a floodplain resolution to be signed by the Director and transmitted to Hinsdale County and Incorporated Areas, and FEMA. This action is recommended in order to meet statutory requirements.

**Requested action for Floodplain Resolution 24-746:** Staff recommends that the Board: 1) designate and approve the 100-year and 500-year detailed floodplain, and floodway information contained in said report for Lincoln County and Incorporated Areas, and 2) authorize staff to prepare a floodplain resolution to be signed by the Director and transmitted to Lincoln County and Incorporated Areas, Town of Arriba, Town of Genoa, and Town of Limon, and FEMA. This action is recommended in order to meet statutory requirements.



## **Attachment - Supporting Information**

### ***Consent Agenda Item 5 - Floodplain Designations***

***September 2024***

#### **Summary**

Consent Agenda Item 5 includes 2 floodplain studies that are proposed for CWCB action. Staff is requesting Board designation and approval for these items. A brief summary of the studies are presented below.

CWCB staff performs technical reviews of floodplain information to assure the Board that the information complies with the requirements of the CWCB's "Rules and Regulations for Regulatory Floodplains in Colorado," 2 CCR 408-1. Furthermore, Sections 31-23-301 and 30-28-111, Colorado Revised Statutes, state that legislative bodies of local jurisdictions may provide zoning regulations for land uses on or along any storm or floodwater runoff channel or basin only after designation and approval by the CWCB. In addition, Section 37-60-106(1)(c), Colorado Revised Statutes, directs the CWCB to designate and approve storm or floodwater runoff channels or basins and to make such designations available to legislative bodies of local jurisdictions.

The CWCB's designation and approvals greatly assist local communities in meeting the statutory requirements of the State and the regulatory requirements of the National Flood Insurance Program. Floodplain information is broadly categorized as detailed or approximate using the following definitions. Detailed floodplain information means floodplain information prepared using topographic base maps, hydrologic analyses, and hydraulic calculations to arrive at precise water surface profiles and floodplain delineations suitable for making land use decisions under statutorily authorized zoning powers. Approximate floodplain information means floodplain information prepared using a significantly reduced level of detail to arrive at floodplain (hazard delineation) without water surface profiles.

CWCB staff performs technical reviews on the following types of reports and maps for approval and designation by the Board:

"Flood Insurance Study" (FIS), which is produced by the Federal Emergency Management Agency (FEMA) and used for floodplain management, regulation, and insurance purposes.

"Flood Insurance Rate Map" (FIRM), which is produced by FEMA and used for floodplain management, regulation, and insurance purposes. A FIRM may be published with or without an associated hydrologic and hydraulic report.

"Flood Hazard Boundary Map" (FHBM), which was produced by the Federal Insurance Administration and are used for floodplain management, regulation, and insurance purposes. An FHBM usually depicts approximate floodplain boundaries only and does not have an



accompanying report. Note: For all FHBM designations, the CWCB staff will perform (in-house or by contract with a consultant) hydrologic analyses.

“Floodplain Information Report”, which is produced by local governments, state and federal agencies, special districts, or the private sector, and are used for floodplain management purposes and sometimes adopted by FEMA for use in Flood Insurance Rate Map revisions.

Various hydrology studies and related floodplain studies (community-wide or site specific) that depict 100-year floodplain information that is useful for floodplain management purposes.

“Floodplain Information” is a generic term used to describe any of the above types of reports and/or maps in the CWCB’s “rules and regulations...”

“Floodplain Resolution” is a formal document prepared by CWCB staff describing the Floodplain Information that is to be designated and approved by the Board.



## **Summary of Designation Actions**

**Floodplain resolution number: FPR Designation #24-745**

**Affected communities:** Hinsdale County, Town of Lake City

**Name of study to be formally acted on:** “Flood Insurance Study, Hinsdale County Colorado and Incorporated Areas”, by the Federal Emergency Management Agency, September 12, 2024.

**Studied streams:** The report includes detailed 100-year and 500-year hydrologic and hydraulic information for Henson Creek and Lake Fork of the Gunnison River.

It includes approximate 100-year and 500-year floodplain information for Various Zone A Flooding Sources.

**Technical Issues:** This report utilized a Log Pearson Type III Hydrologic Frequency Analysis and Hydraulic Model HEC-RAS V5.0.7.

**Community response:** The action to designate this Flood Insurance Study was initiated by CWCB staff. This study was prepared by FEMA in cooperation with Hinsdale County and its incorporated areas. Prior to establishing the new study, a final coordination meeting was held on July 14, 2022, in which all affected communities were invited. The results of the countywide project, including the Zone AE level hydrologic and hydraulic analyses, were presented, and reviewed at the final Community Coordination (CCO) meeting attended by representatives of FEMA, CWCB, Hinsdale County and Lake City officials. The study was fully accepted and endorsed by all agencies present at this meeting.

**Staff findings:** CWCB staff has determined that the subject floodplain information for Sanderson Gulch is in conformance with the CWCB’s rules and regulations for floodplain designation and approval.

**Requested action for Floodplain Resolution 24-745:** Staff recommends that the Board: 1) designate and approve the 100-year and 500-year detailed floodplain, 100-year and 500-year approximate, and floodway information contained in said report for Hinsdale County and Incorporated Areas, and the Town of Lake City and 2) authorize staff to prepare a floodplain resolution to be signed by the Director and transmitted to Hinsdale County and Incorporated Areas, and FEMA. This action is recommended in order to meet statutory requirements.



**Floodplain resolution number: FPR Designation #24-746**

**Affected communities:** Lincoln County and Incorporated Areas, Town of Arriba, Town of Genoa, and Town of Limon

**Name of study to be formally acted on:** “Flood Insurance Study, Lincoln County, Colorado and Incorporated Areas”, by the Federal Emergency Management Agency, September 12, 2024.

**Studied streams:** The report includes detailed 100-year and 500-year hydrologic and hydraulic information for Big Sandy Creek, Unnamed Airport Stream, Unnamed Airport Stream Split 1, Unnamed Airport Stream Tributary 1, Unnamed Stream, Unnamed Stream Tributary 1, Unnamed Stream Tributary 1 Split, Unnamed Stream Tributary 2.

**Technical Issues:** This report utilized Hydrologic Model HEC-HMS 4.2.1 and Hydraulic Model HEC-RAS V5.7.

**Community response:** The action to designate this Flood Insurance Study was initiated by CWCB staff. This study was prepared by FEMA in cooperation with Lincoln County and its incorporated areas. Prior to establishing the new study, a final coordination meeting was held on December 5, 2022, in which all affected communities were invited. The results of the countywide project, including the Zone AE level hydrologic and hydraulic analyses, were presented, and reviewed at the final Community Coordination (CCO) meeting attended by representatives of FEMA, CWCB and the communities. The study was fully accepted and endorsed by all agencies present at this meeting.

**Staff findings:** CWCB staff has determined that the subject 100-year and 500-year detailed floodplain, and floodway information for the studied stream reaches is in conformance with the CWCB’s rules and regulations for floodplain designation and approval. CWCB staff therefore endorses this study as containing the most current floodplain mapping available and urges the affected communities to adopt said study for land use regulation purposes pursuant to statutory authority.

**Requested action for Floodplain Resolution 24-746:** Staff recommends that the Board: 1) designate and approve the 100-year and 500-year detailed floodplain, and floodway information contained in said report for Lincoln County and Incorporated Areas, and 2) authorize staff to prepare a floodplain resolution to be signed by the Director and transmitted to Lincoln County and Incorporated Areas, Town of Arriba, Town of Genoa, and Town of Limon, and FEMA. This action is recommended in order to meet statutory requirements.

