

COLORADO WATER CONSERVATION BOARD  
721 State Centennial Building  
1313 Sherman Street  
Denver, Colorado 80203

December 12, 2016

**RESOLUTION**

**PREVIOUS FLOODPLAIN INFORMATION**

WHEREAS, the following floodplain studies have been designated by the CWCB for Box Elder Creek and Coyote Run as listed in Table 1:

**Table 1**  
**Previously designated floodplain information for Box Elder Creek and Coyote Run**

<b>Study Name</b>	<b>Author</b>	<b>Report Date</b>	<b>Resolution No.</b>
FIS, City of Aurora	Gingery Associates, Inc.	December 1977	117
FIS, Arapahoe County, Colorado Unincorporated Areas	U.S. Department of Housing and Urban Development	August 1977	277
FIS, City of Aurora, CO, Adams and Arapahoe Counties	Federal Emergency Management Agency	September 1992	334
FIS, Arapahoe County and Incorporated Areas, Volume 1-3	Federal Emergency Management Agency	December 1993	353
FIS, City of Aurora, CO, Adams and Arapahoe Counties	Federal Emergency Management Agency	September 1989	354.01
FIS, City of Aurora, CO, Adams and Arapahoe Counties	Federal Emergency Management Agency	August 1995	405
Flood Hazard Area Delineation, Coyote Run and Upper Box Elder Creek, City of Aurora, Arapahoe County, Adams County, Colorado	Urban Drainage and Flood Control District	December 1995	421
FIS, City of Aurora, CO, Adams and Arapahoe Counties	Federal Emergency Management Agency	September 1998	507
FIS, Arapahoe County, Colorado and Incorporated Areas	Federal Emergency Management Agency	April 1989	508
FIS, Arapahoe County, CO and Incorporated Areas	Federal Emergency Management Agency	March 1991	509
FIS, City and County of Denver, Colorado	Federal Emergency Management Agency	January 1990	512
FIS, City and County of Denver, Colorado	Federal Emergency Management Agency	January 1992	513

FIS, City and County of Denver, Colorado	Federal Emergency Management Agency	January 1993	514
FIS, City and County of Denver, Colorado	Federal Emergency Management Agency	January 1996	516
FIS, City and County of Denver, Colorado	Federal Emergency Management Agency	January 1998	517
FIS, Arapahoe County, CO and Incorporated Areas	Federal Emergency Management Agency	August 1995	538
FIS, City and County of Denver, Colorado	Federal Emergency Management Agency	November 2005	590

; and

WHEREAS, previous floodplain information consists of detailed information that has become outdated; and

### **FLOODPLAIN INFORMATION TO BE DESIGNATED**

WHEREAS, Olsson Associates completed a new report entitled “Flood Hazard Area Delineation, Box Elder Creek (Downstream of Jewell Avenue) and Coyote Run” dated December 2014; and

WHEREAS, said new report contains detailed floodplain information for Boxelder Creek from the Weld/Adams County Line upstream to approximately four miles south of the Adams/Arapahoe County Line; and

WHEREAS, said new report contains detailed floodplain information for Coyote Run; and

### **LOCAL REQUEST FOR DESIGNATION**

WHEREAS, the study resulting in the said new report was prepared to assist government officials in managing and regulating Box Elder Creek and Coyote Run; and

WHEREAS, the Urban Drainage and Flood Control District transmitted a letter dated June 8, 2016 to the CWCB requesting designation and approval of said new study for Box Elder Creek and Coyote Run; and

WHEREAS, the Urban Drainage and Flood Control District worked directly with all of the affected communities during the course of the study and received input and endorsement for the study methods and results; and

WHEREAS, CWCB staff concurs with the request from the Urban Drainage and Flood Control District for designation and approval of the study; and

WHEREAS, the Urban Drainage and Flood Control District Board of Directors also passed a resolution at their December 18, 2014 meeting to adopt the subject study; and

### **C.R.S. AUTHORITY**

WHEREAS, Section 37-60-106(1)(c), Colorado Revised Statutes, requires the Colorado Water Conservation Board to assist in the prevention of floods and flood damages therefrom; and

WHEREAS, Sections 31-23-301 and 30-28-111, Colorado Revised Statutes, provide 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 Colorado Water Conservation Board; and

WHEREAS, Section 37-60-106(1)(c), Colorado Revised Statutes, directs the Colorado Water Conservation Board to designate and approve storm or floodwater runoff channels or basins and to make such designations available to legislative bodies of local jurisdictions; and

### **CONSISTENCY WITH PREVIOUS FLOODPLAIN STUDIES**

WHEREAS, the detailed floodplain information for Box Elder Creek and Coyote Run revises and is, therefore, inconsistent with the detailed and approximate floodplain information for Box Elder Creek and Coyote Run contained in Resolutions No. 117, 277, 334, 353 354.01, 405, 421, 507, 508, 509, 512, 513, 514, 516, 517, 538, 590; and

### **COMPLIANCE WITH CWCB TECHNICAL STANDARDS**

WHEREAS, hydrologic information in said new report was developed using UDFCD's Colorado Urban Hydrograph Procedure (CUHP, v. 1.3.3) and the EPA's Stormwater Management Model (SWMM, v 5.0.022); and

WHEREAS, water surface elevations for the 10-, 50-, 100-, and 500-year flood frequencies for the studied stream reach were computed for said new report using the U.S. Army Corps of Engineers HEC-RAS hydraulic model, Version 4.1.0; and

WHEREAS, floodway limits for the 100-year flood frequency assuming a 0.5 foot maximum rise, as required by UDFCD and CWCB, were computed for said new report using the U.S. Army Corps of Engineers HEC-RAS hydraulic model, Version 4.1.0; and

WHEREAS, the detailed floodplain and floodway information for Box Elder Creek and Coyote Run in said new report meets the requirements listed under the Board's "Rules and Regulations for Regulatory Floodplains in Colorado" (2 CCR 408-1); and

WHEREAS, City of Aurora, City and County of Denver, Adams County, Arapahoe County, and the Urban Drainage and Flood Control District should continue to regulate new development and construction in floodplain areas on a case-by-case basis based on the information presented in said new report; and

**DESIGNATION, APPROVAL AND RESCISSION ACTION**

NOW, THEREFORE, BE IT RESOLVED by the Colorado Water Conservation Board in regular meeting assembled in Edwards, Colorado, this 21st day of September, 2016 that it does hereby designate and approve as detailed floodplain information the 100-year and 500-year floodplains and 0.5-ft floodway delineations for Box Elder Creek and Coyote Run in City of Aurora, City and County of Denver, Adams County, Arapahoe County contained in said new Flood Hazard Area Delineation dated December 2014; and

BE IT FURTHER RESOLVED that the Board does hereby rescind the detailed and approximate 100-year and 500-year floodplain and floodway information contained in Resolutions No. 117, 277, 334, 353 354.01, 405, 421, 507, 508, 509, 512, 513, 514, 516, 517, 538, 590; for the studied reaches of Box Elder Creek and Coyote Run contained in said new report dated December 2014; and

BE IT FURTHER RESOLVED that the Secretary of the Board is directed to send a certified copy of this resolution to City of Aurora, City and County of Denver, Adams County, Arapahoe County, Urban Drainage and Flood Control District, and the Federal Emergency Management Agency Region 8.

**CERTIFICATE**

I certify that the foregoing is a true and correct copy of a resolution adopted by a majority vote of the members of the Colorado Water Conservation Board in regular session assembled at Edwards, Colorado on the 21<sup>st</sup> day of September, 2016, at which a quorum was present.

  
James Eklund, Director