

# Master Planning Program Update



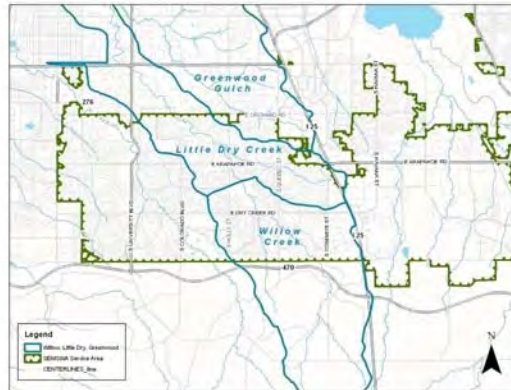
## Dutch Creek, Lilley Gulch, Coon Creek, Three Lakes Tributary

- ◆ Completed in December 2008
- ◆ Adopted by UDFCD
- ◆ Adopted by CWCB (Colo. Water Conservation Board)
- ◆ **Has not been adopted by BOCC to date**
- ◆ Initiated discussion with County on adoption process



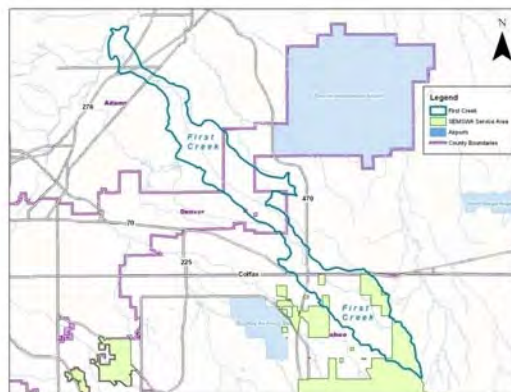
## Willow Creek, Little Dry Creek, and Greenwood Gulch

- ◆ Outfall Systems Planning Study
- ◆ Sponsors: UDFCD, **SEMSWA**, City of Lone Tree, Greenwood Village, Douglas County and South Suburban Parks and Recreation
- ◆ Additional Stakeholders: City of Centennial
- ◆ Consultant: CH2M Hill
- ◆ **Hydrology Final – October 2008**
- ◆ Final Alternatives Report due this month
- ◆ **Next Step – Selected Plan of Improvements**
- ◆ **Final Public Meeting – to introduce Selected Plan**



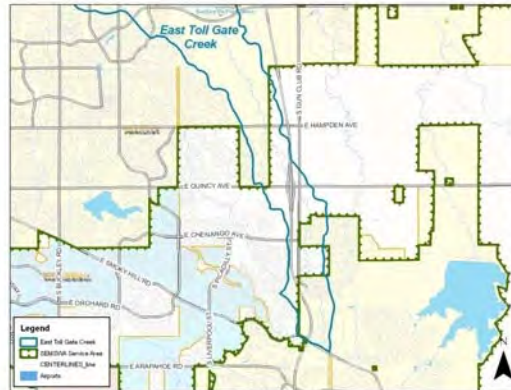
## First Creek

- ◆ Major Drainageway Planning and Flood Hazard Area Delineation Reports
- ◆ Sponsors: UDFCD, City of Aurora and the City and County of Denver
- ◆ Additional Stakeholders: Aurora Water, **SEMSWA**, Arapahoe County, Oakwood Homes and Stantec
- ◆ Consultant: Moser and Associates Engineering
- ◆ **NEW Draft Baseline Hydrology Report submitted and commented on April 2009**
- ◆ Next progress meeting – June 1



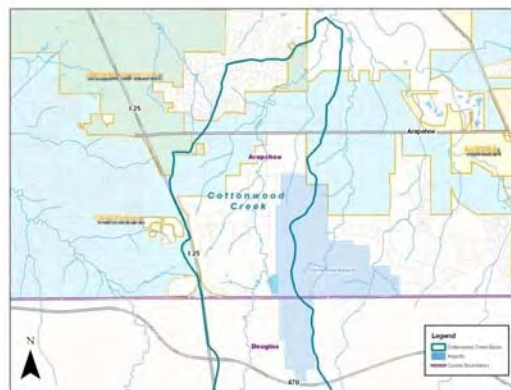
## Upper East Tollgate Creek

- ◆ Major Drainageway Planning and Flood Hazard Area Delineation Reports
- ◆ Project Sponsors: UDFCD, Aurora, **SEMSWA**
- ◆ Additional Stakeholders: None
- ◆ Consultant: **J3 Engineering Consultants**
- ◆ Draft Hydrology Report submitted and commented on – May 5



## Lower Cottonwood Creek

- ◆ Outfall Systems Plan Update to the 1991 plan
- ◆ Sponsors are: UDFCD and **SEMSWA**
- ◆ Consultant: Muller Engineering
- ◆ Additional Stakeholders are: Arapahoe County, Greenwood Village, City of Centennial, City of Lone Tree, Inverness Metro District, Douglas County and the Cherry Creek Water Quality Authority (CCWQA)
- ◆ **Hydrology Final – March 2009**
- ◆ Final Alternatives Report due this month.
- ◆ **Next Step – Selected Plan of Improvements**
- ◆ **Public Meeting – to introduce Selected Plan**



## Lone Tree, Windmill, and Dove

- ◆ Master Drainageway Planning and Flood Hazard Delineation Reports
- ◆ Sponsors: UDFCD, **SEMSWA** and Douglas County
- ◆ Additional Stakeholders: Arapahoe County, City of Aurora, Aurora Water, WWC (ACWWA), WRC Engineering (ACWWA), Cherry Creek Basin Water Quality Authority and Centennial Airport
- ◆ Consultant: Icon Engineering
- ◆ **Hydrology Final – February 2009**
- ◆ **Alternatives Analysis Memo and FHAD submitted for review May 4, 2009**



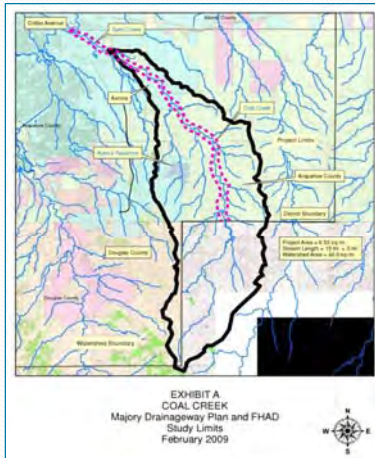
## Centennial Airport Drainage Master Plan Report

- ◆ Sponsor: Centennial Airport
- ◆ Consultant: CH2M Hill
- ◆ Additional Stakeholders: **SEMSWA**, Arapahoe County, ACWWA and Douglas County
- ◆ **NEW Draft Report Submitted to the Airport in April 2009 – SEMSWA commented May 11, 2009**

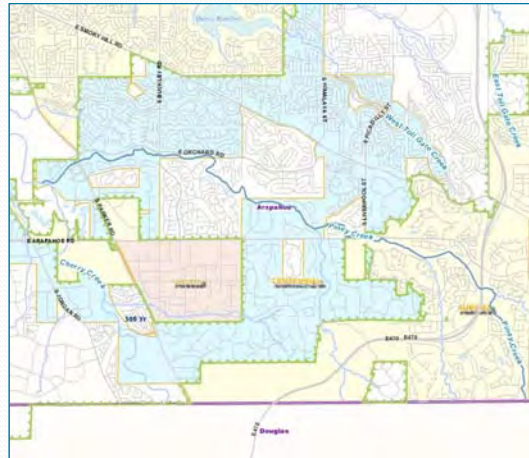


## Upcoming Master Plans and Studies in 2009

### Coal Creek MDP and FHAD



### Piney Creek Stabilization Update



## Floodplain Management Program Update



## National Flood Insurance Program (NFIP) Projects

DFIRMs – Digital Flood Insurance Rate Maps

- ◆ Maps delivered & under review
- ◆ Maps effective late 2009



Existing Firm



DFIRM Update

## National Flood Insurance Program (NFIP) Projects

### Community Rating System (CRS)

- ◆ Baker on board to have the City of Centennial be a CRS Community by mid 2009
- ◆ Plan to increase discount to at least 15% (from rating of 8 to 7) for both communities by mid 2009 – cannot be done without a Building Code Effectiveness Grading Schedule (BCEGS) rating of 6/6 (residential/commercial) or better.
- ◆ **Both the City and the County do not want to pursue a BCEGS rating at this time.**

**BUILDING CODE EFFECTIVENESS GRADING SCHEDULE (BCEGS®)**

**Building codes without enforcement are like buildings without foundations**  
*Maximize your community's quality of life with ISO's BCEGS program.*

Building-code enforcement can have a major influence on the economic well-being of a municipality and the safety of its citizens. Municipalities that adopt up-to-date, unamended codes — and rigorously enforce them using a sufficient number of trained and certified code-enforcement professionals — minimize damage from natural hazards, fire, and other perils, ultimately reducing insurance costs.

How can you determine the effectiveness of code-enforcement in your community?

**Building Code Effectiveness Grading Schedule (BCEGS®)**  
 ISO's independent structural, rating, and advisory organization that serves the insurance industry, creates the BCEGS program. BCEGS is an evaluation system that has retained building-code enforcement for more than 15,000 municipalities nationwide. Since 1975, annual ISO field representatives have visited municipalities to inspect and collect information on building-code adoption and enforcement practices. We analyze that data and assign each municipality a Building Code Effectiveness Classification from 1 to 10 for both commercial and residential communities. Class 1 municipalities represent strong commitment to building-code enforcement. Incentives include the classification as great protection, credit for building constructed to standards that exceed the lowest code practice.

## Current Projects with Significant Floodplain Issues

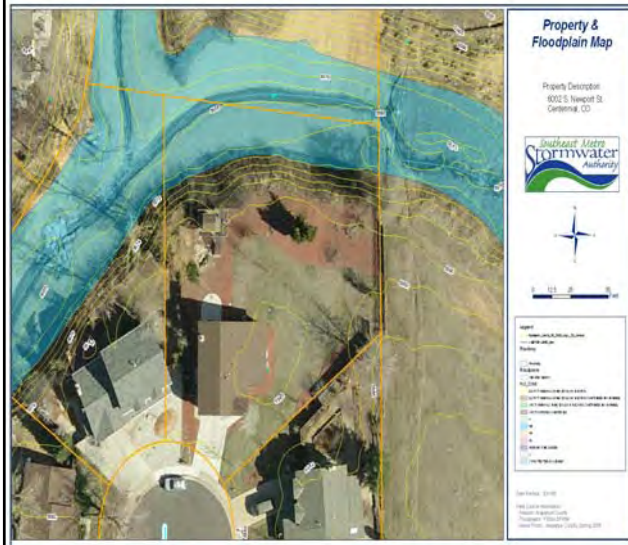
- ◆ Piney Creek Ranches – City of Centennial
- ◆ Tagawa Access Road and Trailhead – City of Centennial
- ◆ Vermillion Creek – City of Centennial
- ◆ Cottonwood Creek Stabilization Project – Arapahoe County
- ◆ Valley Country Club – Arapahoe County
- ◆ Walbash Bridge - Arapahoe County – CLOMR accepted
- ◆ Little Dry Creek at Arapahoe Road Crossing – City of Centennial – CLOMR accepted

## Floodplain Development Permits

- ◆ Currently 20 permits in process
- ◆ 6 Permits issued this year to date
- ◆ **Revised Floodplain Development Permit will be available on-line for the City by end of this month**

SOUTHEAST METRO STORMWATER AUTHORITY (SEMSWA)		City of Centennial	
<b>FLOODPLAIN DEVELOPMENT PERMIT (FDDP)</b> for the City of Centennial SWS 900.0046			
Section 1 through 4 to be filled out by Applicant			
<b>Section 1: Project (Permit/Basic) Information</b>			
Pre-Submittal Meeting Date: _____			
FDDP Submittal Date: _____			
Project Name: _____			
Project Number: _____			
SEMSWA Case No.: _____			
City Case No.: _____			
FEMA Case No.: _____			
<b>Section 2: Applicant Information</b>			
Owner's Name: _____		Telephone No.: _____	
Address: _____		Contact: _____	
Engineer's Name: _____		Telephone No.: _____	
Address: _____		Contact: _____	
Contractor Information Name: _____		Telephone No.: _____	
Address: _____		Contact: _____	
<b>Section 3: Project Information</b>			
Project Location: _____		Parcel I.D. No.: _____	
Project Type: _____		Extent: _____	
<b>Channel Improvements</b>		<b>Recreational Activity</b>	
<input type="checkbox"/> Bank Stabilization	<input type="checkbox"/> Outfall	<input type="checkbox"/> Trail Construction	<input type="checkbox"/> Park
<input type="checkbox"/> Grade Control	<input type="checkbox"/> Fill	<input type="checkbox"/> Pedestrian Bridge	<input type="checkbox"/> Playground
<input type="checkbox"/> Drop Structure		<input type="checkbox"/> Common Area	<input type="checkbox"/> Ball Field
<input type="checkbox"/> Other _____	<input type="checkbox"/> Other _____	<input type="checkbox"/> Other _____	<input type="checkbox"/> Other _____
Type: <input type="checkbox"/> Temporary <input type="checkbox"/> Permanent		<input type="checkbox"/> Rehabilitation <input type="checkbox"/> Emergency Repair <input type="checkbox"/> Maintenance	
Description of Project, including impact to floodplain: _____			
<b>Section 4: Floodplain Information</b>			
Floodplain Source: _____			
FEMA FIRM Panel No.: _____		Date: _____	
Floodplain Designation Source: <input type="checkbox"/> FEMA <input type="checkbox"/> LUD/CD			
<input type="checkbox"/> Other (explain) _____			
FEMA Zone(s): <input type="checkbox"/> A <input type="checkbox"/> AE <input type="checkbox"/> AH <input type="checkbox"/> AO <input type="checkbox"/> AR <input type="checkbox"/> AR3 <input type="checkbox"/> AR30 <input type="checkbox"/> AR300 <input type="checkbox"/> AR3000 <input type="checkbox"/> AR30000			
Regulatory Floodway: <input type="checkbox"/> Yes <input type="checkbox"/> No			

## Floodplain Limit Inquiries



- 10 general inquiries completed to date in 2009
- 0 reviews completed for Arapahoe County's or City's Building Department to date in 2009