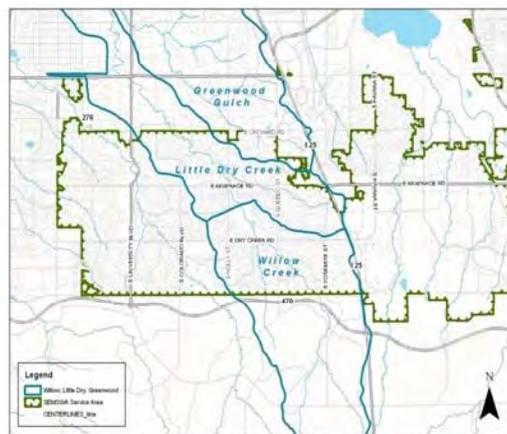


Master Planning Program Update



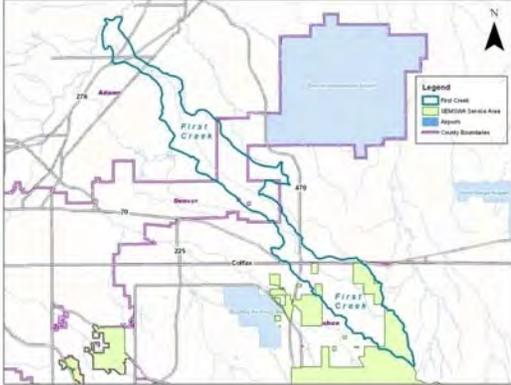
Willow Creek, Little Dry Creek, and Greenwood Gulch

- ◆ 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
- ◆ Final Hydrology Report- October 2008
- ◆ Final Alternatives Report - July 2009
- ◆ **Draft Phase B Report due - Nov 6**
- ◆ **Final Public Meeting - to introduce Selected Plan likely in December**
- ◆ **UDFCD has decided to add a FHAD for Willow Creek to this project.**



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
- ◆ **Baseline Hydrology Report final report – May 2009**
- ◆ **Phase A – Development of Alternative Plans final report - October 2009**
- ◆ **Recommended Plan Comments due – December 8**



The map shows the First Creek drainage area in green, the flood hazard area in yellow, and city boundaries in purple. Major roads like Aurora, Blaine, and Coffee are labeled. A legend in the top right corner identifies the symbols for First Creek, Flood Hazard Area, City, and County Boundaries. A north arrow is also present.

Upper East Tollgate Creek

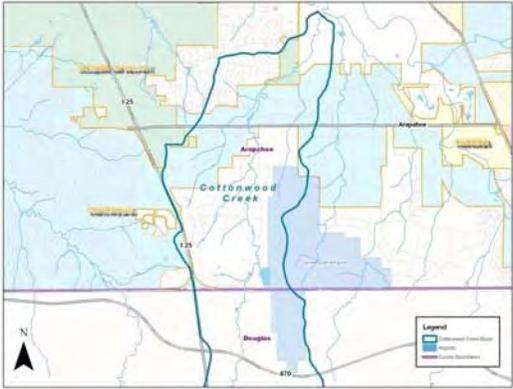
- ◆ Major Drainageway Planning and Flood Hazard Area Delineation Reports
- ◆ Project Sponsors: UDFCD, Aurora, **SEMSWA**
- ◆ Additional Stakeholders: None
- ◆ Consultant: J3 Engineering Consultants
- ◆ **Final FHAD – October 2009**
- ◆ **Phase A report - not re-submitted yet – reviewed July 2009**



The map shows the Upper East Tollgate Creek drainage area in green, the flood hazard area in yellow, and city boundaries in purple. Major roads like East Tollgate Creek, Leitch, and Leitch are labeled. A legend in the bottom left corner identifies the symbols for East Tollgate Creek, SEMSWA Service Area, City, and County Boundaries. A north arrow is also present.

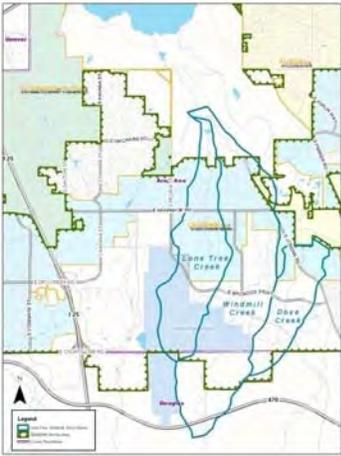
Lower Cottonwood Creek

- ◆ Outfall Systems Plan Update to the 1991 plan
- ◆ Sponsors are: UDFCD, **SEMSWA and Douglas County**
- ◆ 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 Report Final - March 2009**
- ◆ **Alternatives Report Final - September 2009**
- ◆ **Next Step - Selected Plan of Improvements - due November 2009 - Douglas County now a sponsor**
- ◆ **Public Meeting - to introduce Selected Plan - November/December 2009**



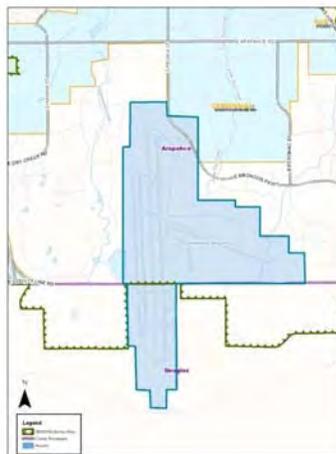
Lone Tree, Windmill, and Dove

- ◆ Master Drainageway Planning and Flood Hazard Delineation Reports
- ◆ Sponsors: UDFCD, **SEMSWA and Douglas County**
- ◆ Additional Stakeholders: Arapahoe County, City of Aurora, Aurora Water, WWE (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 final - July 2009**
- ◆ **Phase B - Selected Plan report due November 2009**
- ◆ **Public Meeting to present Selected Plan - Nov/Dec 2009**



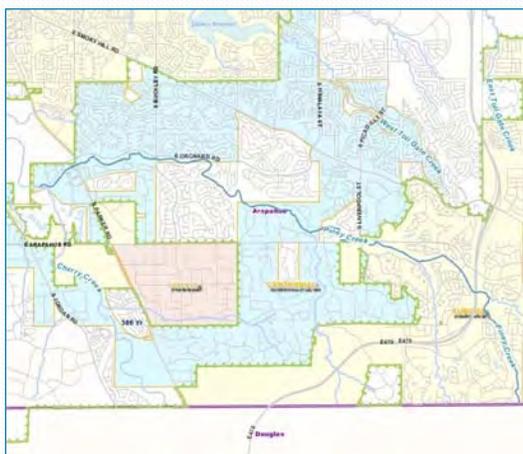
Centennial Airport Drainage Master Plan Report

- ◆ Sponsor: Centennial Airport
- ◆ Consultant: CH2M Hill
- ◆ Additional Stakeholders: **SEMSWA**, Arapahoe County, ACWWA and Douglas County
- ◆ **Final - July 2009**



Upcoming Master Plans and Studies in 2009 Piney Creek Outfall Systems Plan and FHAD

- ◆ Funding Agreement is final
- ◆ **FHAD newly added by UDFCD**
- ◆ Project Sponsors – UDFCD, **SEMSWA**, Aurora and **newly added Douglas County**
- ◆ Next step – Review Scope of Work and Select a consultant



Upcoming Master Plans and Studies in 2009

Little's Creek (upstream of Broadway) OSP and FHAD

- ◆ Will replace Coal Creek MDP and FHAD
- ◆ 2 CIP projects planned for 2010
- ◆ Funding Agreement – UDFCD resolution passed
- ◆ SEMSWA resolution under review this month.
- ◆ Project Sponsors – UDFCD and **SEMSWA – Littleton could not afford to participate**
- ◆ **Next step – Pass resolution**

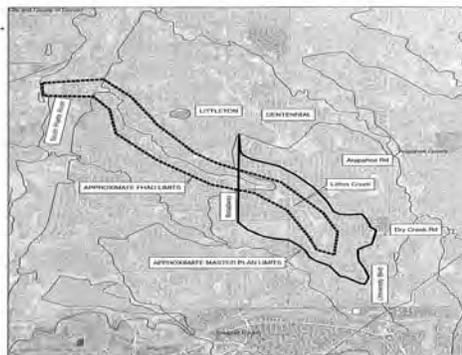


EXHIBIT A
LITTLES CREEK
Outfall Systems Plan & FHAD
Approximate Study Limits
September 2009



Floodplain Management Program Update



National Flood Insurance Program (NFIP) Projects

DFIRMs – Digital Flood Insurance Rate Maps

- ◆ Maps Reviewed by all jurisdictions
- ◆ Two successful Public Open Houses generated 100's of inquiries
- ◆ Appeal Period ended September 22, 2009
- ◆ No formal appeals made in City or Unincorp. Arap. County
- ◆ Formal appeals possible from Aurora
- ◆ New effective date is now August or September 2010



Existing Firm

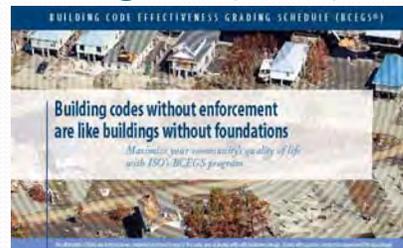


DFIRM Update

National Flood Insurance Program (NFIP) Projects

Community Rating System (CRS)

- ◆ City application submitted in August – preliminary results indicate a CRS Rating of 8 (10% discount)
- ◆ County 5-yr Cycle Review submitted in August – preliminary results indicate a CRS rating of 9 (5% discount) – was previously an 8 with enough points for a 7
- ◆ **Cannot get a higher rating until a BCEGS Rating of 6 or better is achieved**

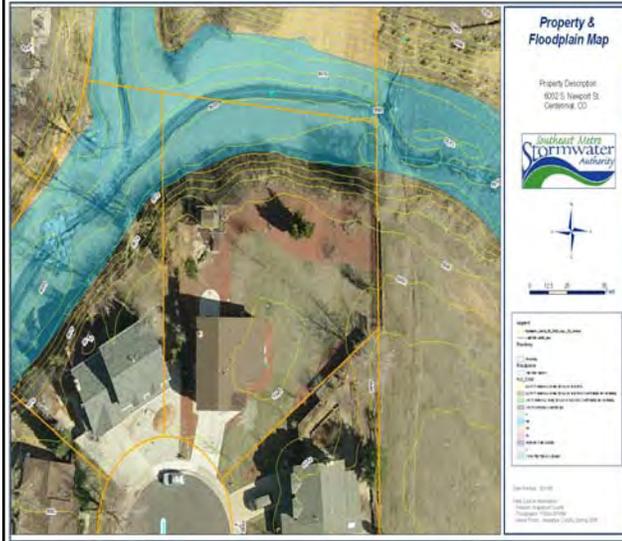


Building-code enforcement can have a major influence on the economic well-being of a municipality and the safety of its citizens. Municipalities that adopt up-to-date, unamended codes — and rigorously enforce them using a sufficient number of trained and certified code-enforcement professionals — minimize 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)
 The International Building Code (IBC) and other model codes are the basis for the NFIP program. BCEGS is an evaluation system that has provided building-code enforcement the same time (100% compliance) as the 1975 model IBC had. Requirements have been added to ensure that code enforcement is building-code compliant and well-enforced. The system has been used in many states to help municipalities determine their code enforcement status. The IBC's enforcement system was the foundation of building-code enforcement. Some cities use the distribution of their properties under the building code to determine their status in the lower code systems.

City's Land Development Code Rewrite Project



- ◆ Coincided well with City's Community Assistance Visit (CAV) from the State (CWCB) in August
- ◆ Rewrite includes missing floodplain management information required by FEMA to insure the City remains in good standing with the NFIP
- ◆ Draft is currently under review

Floodplain Development Permits

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

SOUTH EAST METRO STORMWATER AUTHORITY (SEMSWA)
FLOODPLAIN DEVELOPMENT PERMIT (FPDP)
 for the City of Centennial
NO RAIN NO FLOOD

Section 1 through 4 to be filled out by Applicant

Section 1: Project (Parcel/Block) Information

Pre-Submittal Meeting Date:
FPDP Submittal Date:
Project Name:
Project Number:
SEMSWA Case No.:
City Case No.:
FEMA Case No.:

Section 2: Applicant Information

Owner's Name:	Telephone No.:
Address:	Contact:
Engineer's Name:	Telephone No.:
Address:	Contact:
Contractor Information Name:	Telephone No.:
Address:	Contact:

Section 3: Project Information

Project Location:	Parcel I.D. No.:	Extent:
Project Type:		
<input type="checkbox"/> Bank Stabilization	<input type="checkbox"/> Overfall	<input type="checkbox"/> Trail Construction
<input type="checkbox"/> Grade Control	<input type="checkbox"/> Fill	<input type="checkbox"/> Pedestrian Bridge
<input type="checkbox"/> Drop Structure		<input type="checkbox"/> Common Area
<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
		<input type="checkbox"/> Other
Description of Project, including impact to floodplain:		

Section 4: Floodplain Information

Flooding Source:	Date:
FEMA FIRM Panel No.:	
Floodplain Designation Source: <input type="checkbox"/> FEMA	<input type="checkbox"/> LUD/CD
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"/> AX <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D	
Regulatory Floodway: <input type="checkbox"/> Yes <input type="checkbox"/> No	

Floodplain Violation Issues

- ◆ 2 violations along **Greenwood Gulch** in the City – both involving walls built into the newly stabilized UDFCD channel project
- ◆ Sent **information letters** to all City residents along Greenwood Gulch regarding allowed floodplain uses
- ◆ Currently producing **two permit and floodplain use educational brochures** as a result 1) for homeowners 2) for “professionals” i.e. landscapers and landscape architects



Floodplain Violation Issues

- ◆ 1 violation on **Goldsmith Gulch** in the County – previously permitted fence across Gulch was chained and no longer worked as intended. County TRC and SEMSWA agreed on a replacement design.
- ◆ 1 new zoning violation issued on **Coal Creek** regarding storage of materials in the floodplain – similar violation has been issued to same property in the past
- ◆ 2nd new zoning violation on **Coal Creek** regarding unlawful floodplain and floodway filling will likely still be necessary – again similar violation has been issued in the past

