

## MEETING AGENDA

# Lower Cottonwood Creek Outfall Systems Planning Study

Meeting Date: January 10, 2008

Meeting Location: UDFCD

### 1. Objectives for Meeting

- a. Solicit stakeholder input on study objectives, issues, and alternatives planning.
- b. Discuss progress to date and next steps.
- c. Address information needs.
- d. Discuss schedule.
- e. Other?

### 2. Project Objectives

- a. Update hydrology.
- b. Evaluate regional water quality/flood control detention opportunities.
- c. Recommend drainageway capacity and stabilization improvements.
- d. Update outfall system plan costs.

### 3. Study Scope

- a. Run hydrology on current software.
- b. Update existing and future imperviousness.
- c. Model existing regional detention ponds.
- d. Prepare hydrology report.
- e. Evaluate additional water quality and flood control detention alternatives.
- f. Recommend drainageway capacity and stabilization improvements.
- g. Develop updated cost opinions of alternative plans.
- h. Prepare alternatives evaluation report.
- i. Prepare conceptual preliminary design drawings of selected plan.
- j. Prepare costs and description of selected plan.
- k. Prepare preliminary design report.
- l. Conduct formal presentations.
- m. Maintain project web site.

### 4. Progress To-date

- a. Map products/GIS database.
- b. Initial assessment of drainageway conditions/photo record.
- c. Inventory of existing detention ponds/photo record.
- d. Initial hydrology modeling.

### 5. Specific Issues

- a. Rainfall distribution.
- b. Inverness pond releases.
- c. Importance of Lone Tree/Douglas County detention facilities.
- d. Calibration of hydrology.
- e. Potential detention opportunities.
  - Mainstem upstream of Caley.
  - Mainstem at Lincoln Executive Center.
  - Mainstem at Inverness Pond.

- Tributary B upstream of Arapahoe Road.
- Havana Tributary upstream of Briarwood.
- Airport Tributary upstream of Inverness.
- Meridian ponds.
- Ridgegate ponds.

**6. General Alternative Concepts**

- a. Maximum water quality/flood control detention with lowest 2/100-yr discharges.
- b. Limited water quality/flood control detention with higher 2/100-yr discharges.

**7. Information Needs**

- a. Existing detention pond stage/storage/discharge information.
  - Sky Ridge pond.
  - Meridian ponds.
  - Clinton pond at Dry Creek.
  - Rampart south pond at Havana.
  - Tributary B pond downstream of Easter Ave.
  - Airport ponds?
- b. Storm sewer facilities.
- c. Available floodplain information.
- d. Planned drainageway or detention projects.
- e. Upcoming development projects.
- f. Additional survey information.
  - Caley Avenue box culvert at mainstem.
  - Peakview Avenue bridge and upstream weir at mainstem.
  - Easter Avenue box culvert at mainstem.
  - Arapahoe Road box culvert at Peoria Tributary B.
  - Briarwood Avenue box culvert at Havana Tributary.
- g. Website access permissions and format.
- h. Other problems areas, concerns, or issues not already identified.

**8. Schedule**

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|------------------------------------------------|------------------|
| a. Notice to proceed                           | January 10, 2008 |
| b. Submit draft Alternatives Evaluation Report | April 9, 2008    |
| c. Review comments due on Alternatives Report  | May 9, 2008      |
| d. Print final Alternatives Report             | June 9, 2008     |
| e. Select preferred alternative                | August 8, 2008   |
| f. Submit draft Predesign Report               | October 7, 2008  |
| g. Review comments due on Predesign Report     | November 6, 2008 |
| h. Print final Predesign Report                | December 5, 2008 |

**9. Next Steps**

- a. Finalize baseline hydrology and report.
- b. Evaluate water quality/flood control detention alternatives and discharges.
- c. Next meeting.