

**CLEAR CREEK FHAD AND MASTER PLAN  
PROGRESS MEETING  
JULY 6, 2006 @ 1:00 PM**

**UDFCD BOARD ROOM**

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Minutes

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- Craig Jacobson (ICON) provided a summary of action items from the previous meeting. Craig mentioned that utility information has been collected from most of the entities and that they are presently being put into the mapping. Terry Barnhart obtained property values ranging from \$ 2.50 to \$ 5.00 /sf for potential acquisition of the Calabrese property. However, it is currently under contract and would likely not be available. Regardless, it would be very expensive to purchase and will therefore not be considered as a viable alternative. This property has an existing approved CLOMR and those proposed improvements will be considered in the alternative analysis evaluation.
- Craig mentioned that he had met with Ben Urbonas and Bill DeGroot around two weeks ago to discuss mapping issues where the floodplain exceeds the mapping limits. Ben obtained additional mapping and provided Craig a CD with the data.
- Craig provided an update as to the status of the FHAD. Craig mentioned that ICON had completed the review of the hydraulic model and has a good delineation of the updated floodplain. In general, the update appeared to show increased flood area, as compared to previous studies.
- Maps were distributed displaying the floodplain as well as areas that have been identified as Problem ID areas. Some of the areas that were discussed in particular include the following:
  - I-70 & I-76 bridges do not overtop, but may have a slight constriction in the channel that has some floodplain impacts
  - Backwater at the Wadsworth Bridge forces the 100-yr. flows out of the channel. Around 30-cfs will pond in Wadsworth Boulevard before flowing back into Clear Creek downstream.
  - Due to some mapping limits and general topography, it was decided to end the floodplain along Wadsworth to the North where flows are conveyed down the road. An arrow will be shown on the map showing flow escapes down the road.
  - The hydraulic model indicates that 52<sup>nd</sup> Avenue overtops and the floodplain extends beyond the current mapping limits. Structures upstream of 52<sup>nd</sup> Avenue would be inundated during the 100-year flood.
  - 44th Avenue has flooding over the bridge due to insufficient channel capacity.
  - At the confluence with Lena Gulch and at Kipling Street, flows are out of the channel and overtop Kipling. The Master Plan for Lena will address

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- the problems associated with Lena Gulch. The alternatives for this area will consider those previously developed by the City of Wheat Ridge.
- In the area downstream of Youngfield, the lakes, (West Lake, Tabor Lake & Prospect Lake) are inundated as flows overtop embankments that separate the Lakes from the channel. A split flow was modeled at Tabor Lake and is conveyed to Prospect Lake.
  - The pond upstream of Youngfield (to the north) has been filled. It was decided to still show the area in the floodplain as the fill is approximately at the elevation of the previous water surface. The water surface was modeled as the ground elevation and therefore the floodplain is depicted correctly.
  - It was decided that the proposed Cabala's development will be shown instead of the existing contours as it is far enough in the approval process. ICON will attempt to obtain the most up to date design drawings to model the area to show the improved floodplain.
  - To the south, a new pond is being built by Coors—but is disconnected from the floodplain and will therefore not impact the evaluation.
  - Downstream of McIntyre Street there is a split flow to the north through the Coors Property caused by the railroad bridge. Ken Vaught (Coors) mentioned that he did not think that there were many structures in the area other than a greenhouse. To the South, there is also a split flow that is caused by backwater from the bridge. This area will have to be delineated using some of the updated mapping obtained from Ben.
  - Ken Vaught asked what the flow is estimated to be for the 25-yr. event as some property on Coors gets flooded at that level. Craig estimated it to be on the order of 7,500cfs.
  - In General, the floodplain through Coors is similar to the previous FHAD.
  - In Golden problems occur generally near the confluences with Kenny's Run & Tucker Gulch. A recent approved LOMR (Ford St. Bridge) & CLOMR (Washington St. Bridge) showed the floodplain to be confined in the channel. Our analysis is showing flows to be out of the channel. The problem may be with a pedestrian bridge located just downstream of Ford Street. This bridge causes a backwater that increases the flood elevation at Ford St causing the flooding. This bridge was not included in the Ford St. LOMR and at this time it is not known when it was constructed.
  - It was decided to run the model without the pedestrian bridge to evaluate the impacts to the water surface elevations. It was also decided to obtain more detailed field survey in this area to better model the bridges and UDFCD has asked ICON to provide a cost proposal to obtain this information.

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- ICON will report the results to Ben & Bill and decide how to proceed to finalize the FHAD.
  
- Craig mentioned that ICON had utilized the FHAD hydraulic models to identify problem areas in the Clear Creek floodplain and will use that information to develop the Alternatives Matrix for the different reaches along the Clear Creek. The next several weeks will be dedicated to producing a Draft FHAD and the Alternatives Matrix for the Phase A study. An updated schedule will be sent out to all stakeholders depicting the following:
  - Draft FHAD anticipated near the end of August
  - Draft Phase A in mid September
  
- It was noted that Carol Duecker has taken on a new position for Fast Tracks and will not longer to attending the meetings. Her replacement has not been named, however, Ashland Vaughn from Fast Tracks attended this meeting and will remain involved himself, or help coordinate that transition with the new person.
  
- Bill DeGroot mentioned that the FHAD through the Adams County had attempted to confine the floodway to the channel just downstream of Sheridan Boulevard. However, they found that this was not possible. As a result, Bill anticipated that the north overflow area would remain and need to be accommodated through sites such as the Hyland Hills park area. ‘
  
- Bill DeGroot also suggested that ICON run an evaluation of the Ford Street area in Golden by removing the downstream pedestrian bridge from the model in order to compare the results with the previous LOMR and better determine what the differences are.
  
- Craig Jacobson asked how the District wanted to handle the roadway embankment between Clear Creek and the water storage ponds in Jefferson County (Coors Area). Bill DeGroot mentioned that ICON should look at the area closer and get back to him, but the evaluation may need to consider a “with” “without” levee evaluation through there.
  
- The next meeting was scheduled for 9:00 AM on August 8th, at the UDFCD.

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**ACTION ITEMS:**

- ICON will distribute Meeting Minutes and Update Website
- ICON will provide a Cost Proposal to UDFCD for obtaining additional survey work in Golden and update the hydraulics accordingly
- ICON will contact Project 1 to inquire about Cabela's Plans
- ICON will update FHAD study with new mapping provided by District

**- END OF MEETING--**

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To the best of my knowledge, these minutes are a factual account of the business conducted, the discussions that took place, and the decisions that were reached at the subject meeting. Please direct any exceptions to these minutes in writing to the undersigned within ten (10) days of the issue date appearing herein. Failure to do so will constitute acceptance of these minutes as statements of fact in which you concur.

Minutes prepared by:

\_\_\_\_\_  
Craig D. Jacobson, P.E.  
ICON Engineering, Inc.

7-13-06  
Date



**Clear Creek Progress Meeting**

**July 6, 2006  
1:00 PM  
UD&FCD Board Room**

**Meeting called by:** ICON/UDFCD      **Facilitator:** Doug Williams  
**Note taker:** Craig Jacobson

**Invited Attendees:** See Attached Sign-in Sheet

**Agenda**

| <b>Item:</b>                             | <b>Presented By:</b> | <b>Time:</b> |
|--|----------------------|--------------|
| 1. Introduction                          | Ben Urbonas          | 5 minutes    |
| 2. Summary of Last Meetings Action Items | ICON                 | 10 minutes   |
| 3. FHAD Update & Issues                  | ICON                 | 30 minutes   |
| 4. Master Plan Discussions               | ICON                 |              |
| 4a. General Jefferson County Problem ID  | ICON                 | 15 minutes   |
| 4b. Adams County Master Planning         | ICON                 | 20 minutes   |
| 5. Schedule                              | ICON                 | 5 minutes    |
| 6. Set Next Meeting:                     | Ben Urbonas          | 5 minutes    |

**Action Items**

| <b>Item:</b> | <b>Person Responsible:</b> | <b>Due Date:</b> |
|--------------|----------------------------|------------------|
|--------------|----------------------------|------------------|

**Additional Information**

Special notes:

Clear Creek FHAD/MP Meeting Attendance Record

Kick-off Meeting  
April 5, 2006  
Progress No. 1  
May 1, 2006  
Progress No. 2  
May 25, 2006  
Progress No. 3  
July 6, 2006

Place a checkmark under the "Progress No. 3" column to indicate your attendance today. Also, please verify your contact information and add any missing items. Thank you!

| Invitees                     | Kick-off Meeting<br>April 5, 2006 | Progress No. 1<br>May 1, 2006 | Progress No. 2<br>May 25, 2006 | Progress No. 3<br>July 6, 2006 | Address   | Email  | Phone        | Fax          |
|------------------------------|-----------------------------------|-------------------------------|--------------------------------|--------------------------------|---|--|--------------|--------------|
| Penn Gildersleeve, ICON      | X                                 | X                             | X                              | X                              | 8100 S. Akron Street Ste 300 Centennial, CO 80112                                   | <a href="mailto:pgildersleeve@iconeng.com">pgildersleeve@iconeng.com</a>               | 303-221-0802 | 303-221-4019 |
| Doug Williams, ICON          | X                                 | X                             | X                              | X                              | 8100 S. Akron Street Ste 300 Centennial, CO 80112                                   | <a href="mailto:dwilliams@iconeng.com">dwilliams@iconeng.com</a>                       | 303-221-0802 | 303-221-4019 |
| Craig Jacobson, ICON         | X                                 | X                             | X                              | X                              | 8100 S. Akron Street Ste 300 Centennial, CO 80112                                   | <a href="mailto:cjacobson@iconeng.com">cjacobson@iconeng.com</a>                       | 303-221-0802 | 303-221-4019 |
| Ben Urbanos, UDFCD           | X                                 | X                             | X                              | X                              | 2480 W. 26th Ave Ste 156B Denver, CO 80211  | <a href="mailto:burbonas@udfcd.org">burbonas@udfcd.org</a>                             | 303-455-6277 | 303-455-7880 |
| Dave Bennetts, UDFCD         | X                                 | X                             | X                              | X                              | 2480 W. 26th Ave Ste 156B Denver, CO 80211  | <a href="mailto:dbennetts@udfcd.org">dbennetts@udfcd.org</a>                           | 303-455-6277 | 303-455-7880 |
| Bill DeGroot, UDFCD          | X                                 | X                             | X                              | X                              | 2480 W. 26th Ave Ste 156B Denver, CO 80211  | <a href="mailto:bdegroot@udfcd.org">bdegroot@udfcd.org</a>                             | 303-455-6277 | 303-455-7880 |
| Ken MacKenzie, UDFCD         | X                                 | X                             | X                              | X                              | 2480 W. 26th Ave Ste 156B Denver, CO 80211  | <a href="mailto:kmackenzie@udfcd.org">kmackenzie@udfcd.org</a>                         | 303-455-6277 | 303-455-7880 |
| Jessica Murphy, Adco         | X                                 | X                             | X                              | X                              | 12200 N. Pecos Street, 3rd Floor Westminster, CO 80234                              | <a href="mailto:jmurphy@co.adams.co.us">jmurphy@co.adams.co.us</a>                     | 303-453-8767 | 303-453-8775 |
| Besharah Najjar, Adco        | X                                 | X                             | X                              | X                              | 12200 N. Pecos Street, 3rd Floor Westminster, CO 80234                              | <a href="mailto:bnajjar@co.adams.co.us">bnajjar@co.adams.co.us</a>                     | 303-453-8770 | 303-453-8775 |
| Marc Pedrucci, Adco          | X                                 | X                             | X                              | X                              |   | <a href="mailto:mpedrucci@co.adams.co.us">mpedrucci@co.adams.co.us</a>                 | 303-637-8014 | 303-637-8015 |
| John Conn, Jeffco            | X                                 | X                             | X                              | X                              | 100 Jefferson County Pkwy Ste 3500 Golden 80419                                     | <a href="mailto:jconn@jeffco.us">jconn@jeffco.us</a>                                   | 303-2718496  | 303-271-8490 |
| Mike Vanatta, Jeffco         | X                                 | X                             | X                              | X                              |   | <a href="mailto:mvanatta@jeffco.us">mvanatta@jeffco.us</a>                             | 303-271-8481 | 303-271-8490 |
| Dave Ridenour, Denver        | X                                 | X                             | X                              | X                              | Public Works 201 W Colfax Ave Denver 80202  | <a href="mailto:david.ridenour@ci.denver.co.us">david.ridenour@ci.denver.co.us</a>     | 720-865-2524 | 720-865-2676 |
| Vince Auriemma, Golden       | X                                 | X                             | X                              | X                              |   | <a href="mailto:vauriemma@ci.golden.co.us">vauriemma@ci.golden.co.us</a>               | 303-384-8156 | 303-384-8161 |
| Steve Nguyen, Wheat Ridge    | X                                 | X                             | X                              | X                              |   | <a href="mailto:snguyen@ci.wheatridge.co.us">snguyen@ci.wheatridge.co.us</a>           | 303-235-2862 | 303-235-2857 |
| Patrick Dougherty, Arvada    | X                                 | X                             | X                              | X                              | 8101 Ralston Road; Arvada, CO 80002   | <a href="mailto:patrick@arvada.org">patrick@arvada.org</a>                             | 720-898-7642 | 720-898-7603 |
| Georgia Simpson, Arvada      | X                                 | X                             | X                              | X                              | 8101 Ralston Road; Arvada, CO 80002   | <a href="mailto:gsimpson@ci.arvada.co.us">gsimpson@ci.arvada.co.us</a>                 |              |              |
| Terry Barnhart, Hyland Hills | X                                 | X                             | X                              | X                              | 1800 West 89th Avenue Federal Heights, CO 80260                                     | <a href="mailto:tbarnhart@hylandhills.org">tbarnhart@hylandhills.org</a>               | 303-650-7609 | 303-650-7594 |
| Scott Franklin, COE          | X                                 | X                             | X                              | X                              |   | <a href="mailto:j.s.franklin@usace.army.mil">j.s.franklin@usace.army.mil</a>           |              |              |
| Ken Vaught, Coors            | X                                 | X                             | X                              | X                              |   | <a href="mailto:ken.vaught@coors.com">ken.vaught@coors.com</a>                         | 303-277-2756 | 303-277-3833 |
| Carol Duecker, RTD           | X                                 | X                             | X                              | X                              |   | <a href="mailto:carol.duecker@rtdfastracks.com">carol.duecker@rtdfastracks.com</a>     | 303-299-6970 | 303-299-6994 |
| Andy Ampan, BSNF             | X                                 | X                             | X                              | X                              |   | <a href="mailto:andy.ampan@bsnf.com">andy.ampan@bsnf.com</a>                           | 913-551-4964 | 913-551-4794 |
| Woody Starner, BNSF          | X                                 | X                             | X                              | X                              |   | <a href="mailto:Elwood.Starner@BNSF.com">Elwood.Starner@BNSF.com</a>                   |              |              |
| Justin Werdel, CDOT          | X                                 | X                             | X                              | X                              | 2000 S. Holly Street; Denver, CO 80222  | <a href="mailto:justin.werdel@dot.state.co.us">justin.werdel@dot.state.co.us</a>       | 303-757-9823 |              |
| Max Dodson, EPA              | X                                 | X                             | X                              | X                              |   | <a href="mailto:dodson.max@epa.gov">dodson.max@epa.gov</a>                             |              |              |
| Mike Palumbo, Project One    | X                                 | X                             | X                              | X                              | Project One Integrated Services; 9785 Maroon Circle, Suite 150; Englewood, CO 80112 | <a href="mailto:mikep@projectoneis.com">mikep@projectoneis.com</a>                     | 303-771-0396 | 303-771-0398 |
| Susan Grabler, Union Pacific | X                                 | X                             | X                              | X                              |   | <a href="mailto:skgrabler@up.com">skgrabler@up.com</a>                                 |              |              |
| Ashland Vaughn, RTD          | X                                 | X                             | X                              | X                              | 1560 Broadway, Suite 700, Denver, 80202   | <a href="mailto:ashland.vaughn@RTD-fastracks.com">ashland.vaughn@RTD-fastracks.com</a> | 303-299-6986 | 303-299-2452 |