



PINEY CREEK MAJOR DRAINAGEWAY PLANNING & FHAD

Progress Meeting Minutes

June 3, 2010

Attendees:

- Shea Thomas, UDFCD
- Monica Bortolini, SEMSWA
- Hoanh Tran, City of Aurora
- Curtis Bish, Aurora Parks, Recreation and Open Space Department
- Lori Tagawa, Aurora Parks, Recreation and Open Space & Water Department
- Brad Robenstein, Douglas County
- Stacey Thompson, Arapahoe County
- Lynn Cornell, Arapahoe Park and Recreation District
- Doug Rockne, Arapahoe Park and Recreation District
- Alan Leak, WRC Engineering, Inc.
- Nate Torrey, WRC Engineering, Inc.

A sign-in sheet and meeting agenda were distributed to attendees prior to the start of the meeting.

A revised schedule was handed out. It was explained that the revised schedule is based on a notice to proceed date based on the receipt of the mapping.

Hydrologic Analysis:

WRC summarized the hydrologic data received and still required. Aurora GIS data had yet to be received, but should have it by Monday. WRC requested soil samples along the creek for sediment analysis modeling. Shea stated she would provide a geotechnical engineering consultant (Ground Engineering) contact to provide an estimate for UDFCD. They would invoice to UDFCD. The sediment analysis is part of WRC's original scope.

Detention pond information had yet to be received. WRC had requested detention pond back-up information for the ponds previously modeled in the 2003 OSP as well as ponds located in the lower watershed. It was discussed that we should only pull information for ponds that meet the criteria for being included in the baseline hydrology; publicly owned and having tributary areas greater than 100 acres.

A large water quality pond is located in the Tallyn's reach development, Bill McCormick had provided the data for this pond previously. The pond has water quality and 100-year detention volume. It was discussed whether or not to assume the water quality volume full at the time of the storm event. It was agreed to assume the water quality full.

Hoanh mentioned a couple of ponds in Aurora that were not shown on the WRC figures, one located in the Rockinghorse development and one in the Kings Point development.

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Ponds in the lower watershed were discussed and identified as public or private. It was discussed whether or not to consider metro district ponds as public ponds. Monica mentioned that she didn't think SEMSWA inspected metro district ponds, so we should not include them in the baseline analysis. The alternative analysis could include the metro district ponds if they were to be acquired by SEMSWA or other public entity. Stacey with Arapahoe County will work on locating pond back-up information for the lower watershed, downstream of Arapahoe Road.

Curt mentioned that Aurora Parks may have GIS data related to detention ponds, he would look into it.

East Cherry Creek Valley Water & Sanitation District (ECCV) detention ponds are being transferred to SEMSWA, so they can be included in the baseline hydrology. Monica provided an exhibit showing ECCV property transfer parcels. She will have the SEMSWA GIS department forward a copy of the exhibit to WRC for their use.

11" x 17" map scale was discussed. At a scale of 1" = 2000', three sheets would be required to show the entire watershed. It was decided to use this scale because a larger scale would be too small.

Impervious area estimates were discussed. WRC plans on using impervious area shapefiles provided by SEMSWA within their service area boundary. The shapefiles contain polygons for all impervious area including roofs, drives, walks, misc structures, etc. for individual parcels. The shapefiles also contain ROW delineations outside of the parcels. The ROW polygons include pervious buffer zones along the ROW.

UDFCD criteria recommends 90% impervious area for roofs and drives and 2% for greenbelts or agricultural areas. These values should be used for analysis.

WRC will email impervious area maps to project sponsors for their review. If there are no major concerns, a progress meeting will not be necessary to discuss.

Initial hydrology results were discussed. WRC converted the CUHP and UDSWMM models from the 2003 OSP to the current versions of the software.


WRC found that the conversion from the previous version of CUHP to CUHP 2005 v1.3.3 decreased the runoff hydrographs by about 20%. Shea mentioned that this is not typically the case. The version of CUHP used in the 2003 OSP was creating larger hydrographs. This was eventually corrected by UDFCD. The conversion from UDSWMM to EPA SWMM 5.0 resulted in larger peak flows, even with the decreased hydrographs. These differences are a result of changes to the modeling software.

Shea mentioned that the converted models should match the original flows within 10%. Peak flows from the converted models are within 10% of the 2003 OSP flows, and in most cases much less than 10%.

Shea mentioned that 8 copies of the draft baseline hydrology report will be needed for distribution to UDFCD and the sponsors.

Meeting was adjourned at 3:30 PM.

Minutes Developed By:


Nathan R. Torrey