



MEETING MINUTES

Second Creek Tribs MDP and FHAD Pre-Hydrology Meeting

Date : May 28, 2021
Location : Virtual Meeting
Distributions : Agenda

Attendees :

NAME	ORGANIZATION	EMAIL
Dave Skuodas	MHFD	dskuodas@udfcd.org
Russel Nelson	Adams County	rnelson@adcogov.org
Brent Soderlin	Commerce City	bsoderlin@c3gov.com
Chris Hoydl	Commerce City	choydl@c3gov.com
Lisa Froshaug	DOTI	lisa.froshaug@denvergov.org
David Morrissey	DOTI	david.morrissey@denvergov.org
Matt Love	DEN	matt.love@flydenver.com
Catherine Rafferty	DEN	catherine.rafferty@flydenver.com
Alan Leak	RESPEC	alan.leak@respec.com
Jen Winters	RESPEC	jennifer.winters@respec.com
William Lynn	RESPEC	william.lynn@respec.com

1) Introductions

The meeting was opened with introductions.

2) Purpose

The purpose of the meeting was to kickoff the baseline hydrology for the Second Creek Tributaries MDP and FHAD; identify data needs; and discuss project schedule. Jen Winters (RESPEC) ran the meeting using a PowerPoint presentation to guide discussion.

3) Scope of Work

Nineteen tributaries are included in the study. The project sponsors selected the preliminary scope of work for the tributaries as follows:

Tributary	Municipality(s)	MDP	Non-Regulatory Floodplain	FHAD
Francis Gulch	Commerce City			x
Reed Run	Commerce City	x		x
Peachleaf Run	Commerce City	x		x



Dragway Draw	Adams Co. and Commerce City			x
Granma Gulch	Commerce City	x		x
Buckley Run	Adams Co. and Commerce City			x
Buckley Draw	Adams Co. and Commerce City			x
Tower Run	Adams Co., Commerce City, and Denver/DIA			x
West Fork Second Creek	Adams Co., Commerce City, and Denver/DIA	x		x
Quick Draw	Denver/DIA	x	x	
Second Creek Short Run	Adams Co. and Denver/DIA	x		x
Hawthorne Gulch	Denver/DIA	x		x
Buckthorn Draw	Denver/DIA	x		x
Barberry Run	Denver/DIA	x		x
Pinon Draw	Denver/DIA	x		x
Alfalfa Draw	Denver/DIA	x		x
Runaway Run	Denver/DIA	x		x
Cocklebur Run	Denver/DIA	x		x
Dandelion Draw	Denver	x		x

Dave Skuodas (MHFD) pointed out that some of the tributaries have been altered significantly since the 2014 when the LiDAR was collected. In some cases, the channels have been realigned, covered, or altered in some other fashion. These changes may make doing a FHAD for the tributaries unnecessary and make a non-regulatory floodplain a better option.

Action Item: RESPEC to review the tributaries and compare 2014 LiDAR to current aeriels to determine which tributaries have been altered since 2014. This information will be presented to project sponsors to help finalize the list of FHAD studies.

Dave Skuodas will coordinate surveys of crossing structures for incorporation into the FHAD modeling. The final list of survey needs will be developed after the FHAD scope has been finalized.

4) Project Goals

The goal of the MDP is determine existing and future issues (capacity, stream stability, flooding, etc.) along the Second Creek Tributaries and to identify projects that will correct the issues. The projects will be incorporated into the sponsors CIP and addressed when possible. The FHAD will identify current 100-year floodplains along the Tributaries and will set floodplain boundaries that will be adopted by FEMA for flood insurance and risk purposes.

5) MDP/FHAD Process

Jen presented a graphic showing the typical MDP/FHAD process. The initial step is to complete the Baseline Hydrology. After baseline hydrology is complete, the project splits into two parallel paths: Alternatives and FHAD modeling/mapping. The FHAD modeling begins first and will inform the development of alternatives to address flooding issues. After the MDP Alternatives and the FHAD mapping/modeling are complete, then a public meeting will be held to inform the public of the proposed



changes to floodplain and to the final recommended plan for the MDP. Following the public meeting, the MDP and FHAD reports will be finalized and adopted by the MHFD.

6) Hydrology Data

The Second Creek MDP and FHAD is currently being finalized by RESPEC and MHFD. The baseline hydrology models (CUHP and SWMM) will be used as the starting point for this study and will be further discretized at design points located along the tributaries themselves. The baseline hydrology for the tributaries study will be a stand-alone and separate analysis from the main stem of Second Creek.

Topographic Data:

RESPEC will use the 2014 post-flood LiDAR to delineate sub-basins. RESPEC asked if there was any development or projects that have occurred since 2017 (the date of the baseline hydrology for the main stem) that may need to be incorporated into the baseline hydrology. The area is developing quickly and there are several ongoing and/or imminent developments include: Reunion, High Point at DIA, Buffalo Run Highlands, Painted Prairie. Additionally, major changes to E-470 and Pena Blvd are upcoming. Lastly, the T88 diversion has been completed and will be incorporated into this study.

Action Items: Project sponsors will provide development drainage reports and other design information to RESPEC for incorporation into the baseline hydrology. Catherine Rafferty (DEN) to provide RESPEC with E-470 contact information. Chris Hoydl (Commerce City) to provide T88 diversion as built information. Dave Skuodas to provide High Point at DIA drainage report.

Soils Data:

RESPEC will use the soils information from the Second Creek MDP. No additional data needed.

Existing Land Use:

RESPEC will use USGS National Land Cover Database (NLCD) data along with the information provided for existing development to determine appropriate existing land uses.

Future Land Use:

RESPEC will use Adams County (2012), Commerce City (2020), and Aurora (2015/2016) future land uses data combined with the information from the development reports provided by the project sponsors.

Detention:

Two detention areas are existing within the original Second Creek MDP and will be incorporated into the baseline hydrology:

1. M4018 – 12AF on Barberry Run (ND corner Gun Club and 79th Ave.)
2. M6018 – 112 AF on West Fork Second Creek (Tower Road and 72nd Ave.)

Additionally, the following two imminent ponds will be included:

1. Dandelion Detention Pond – included in the Second Creek MDP as a proposed pond. Dave is not sure if this pond should be included in baseline hydrology at this time. RESPEC will confirm in mid-July if this pond will be included or not.
2. Pinyon Pond – located north of E-470 is likely to be built in next 6 months. Dave will provide RESPEC with information for this pond.

Action Items: RESPEC to confirm with Dave in mid-July if include Dandelion Pond in baseline Hydrology. Dave to provide RESPEC with Pinyon Pond design information.

7) Baseline Hydrology Schedule

The following is the draft schedule for baseline hydrology:

- i. Draft Baseline Hydrology Report – early August



- ii. Review Draft Report – late August
- iii. Final Baseline Hydrology Report – mid September

A progress meeting will be scheduled for mid-July to discuss progress of the hydrologic modeling. At this meeting, RESPEC will present the results of the FHAD LiDAR vs. aerial imagery review and the sponsors will finalize the scope for the tributaries which will receive FHAD studies.

Action Item: RESPEC to send a Doodle Poll to the team to schedule July review meeting.

8) Action Items

- a. RESPEC to review the tributaries and compare 2014 LiDAR to current aerials to determine which tributaries have been altered since 2014. This information will be presented to project sponsors to help finalize the list of FHAD studies.
- b. Project sponsors will provide development drainage reports and other design information to RESPEC for incorporation into the baseline hydrology.
- c. Dave Skuodas to provide High Point at DIA drainage report.
- d. Catherine Rafferty (DEN) to provide RESPEC with E-470 contact information.
- e. Chris Hoydl (Commerce City) to provide T88 diversion as built information.
- f. RESPEC to confirm with Dave in mid-July if include Dandelion Pond in baseline Hydrology.
- g. Dave to provide RESPEC with Pinyon Pond design information.
- h. RESPEC to send a Doodle Poll to the team to schedule July review meeting.