

MEETING AGENDA

Date/Time: November 23, 2020 @ 3:30 p.m.

Location: Microsoft Teams Meeting

Project: Englewood MDP Kickoff Meeting

Attendees:

Dewberry	Mile High Flood District	City of Englewood
Ken Cecil Danny Elsner Haley Heinemann Katie Kerstiens	Jon Villines Brik Zivkovich Melanie Poole	Tim Hoos Maria D'Andrea

Discussion Items:

1. Introductions

2. Project Goal

- a. The goal of this stage is to get up-to-date hydrology across Englewood while utilizing completed work from previous studies. Dewberry will update and build upon the recommendations from these previous studies and ultimately prioritize proposed improvements. This will provide guidance for Englewood as they plan for future implementation and construction.

3. MDP Scope – Attached is the map and table from the scope

- a. 2019 Calibre OSP studied five major basins. Dewberry will use the 2013 LiDAR data to update basin information. The latest NOAA rainfall will be used to run the latest version of CUHP and the SWMM model will be run in the latest version.
- b. 1999 Turner Collie & Braden OSP studied six major basins. Dewberry will recreate the basin delineation, update the basin parameters, update to the latest NOAA rainfall data, and run the model in the latest version of CUHP. A new SWMM model will be created and will be run in the latest version.

- c. The five Direct Flow Areas will have a full study done since there are no current studies for these areas.
- d. The three major basins (Big Dry Creek, Northeast Englewood, and Little Dry Creek) have been studied more recently so there will be no update to their hydrology.

4. Pluvial Study Scope

- a. Dewberry has an additional contract with MHFD to do a Pluvial Study. A Rain-on-Grid model will be created for all basins within the Englewood area. The results from this study will help inform the recommendations within the Englewood MDP.
- b. Obtaining the City of Englewood's portal information for flooding points may be helpful in completed this study.

5. Rough Schedule

- a. Late December – Complete basin updates and CUHP parameters, begin producing excess rainfall from CUHP and start Rain-on-Grid modeling
- b. Late January – Complete Rain-on-Grid modeling
- c. Late February – Submit Hydrology Report

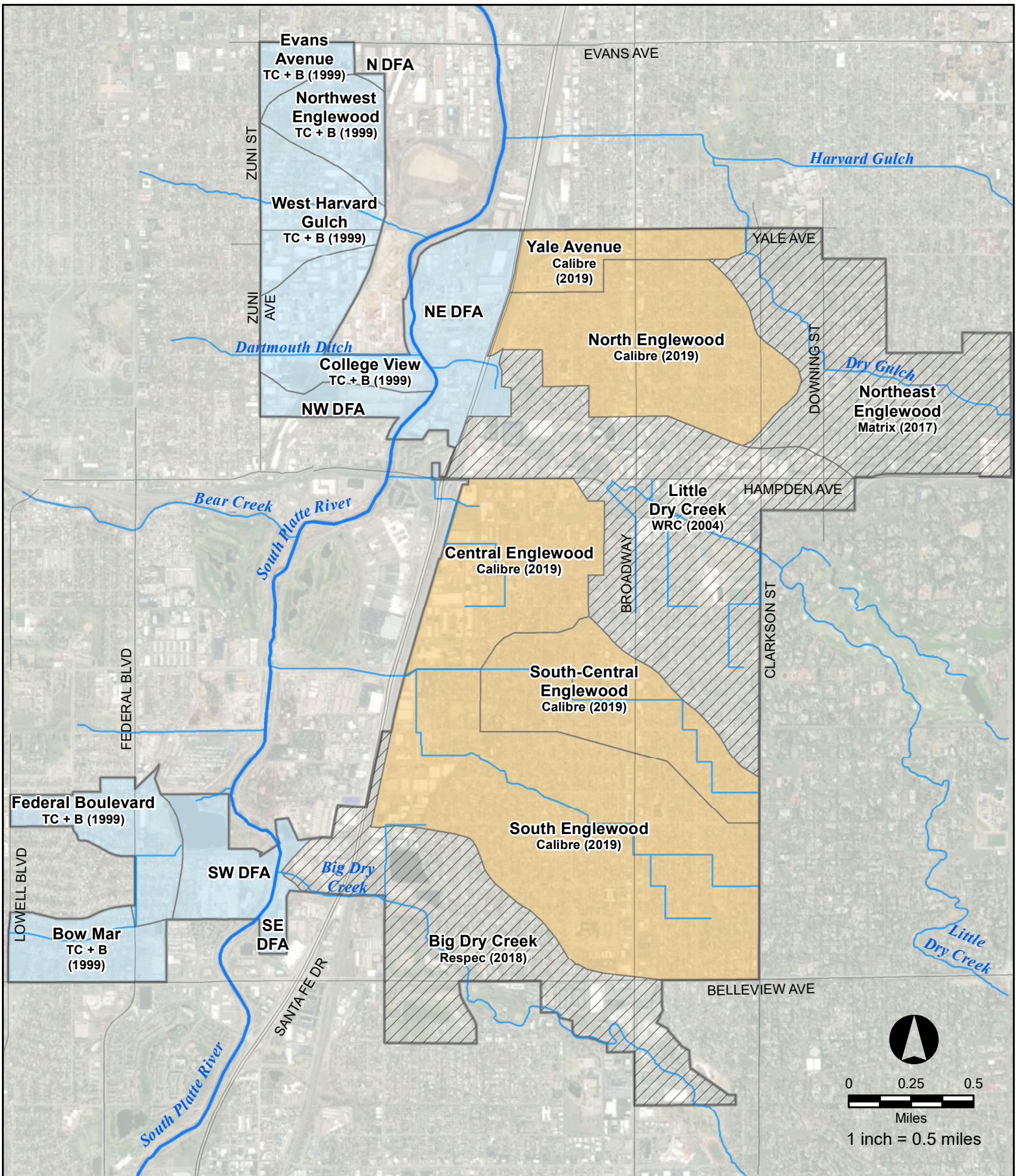


FIGURE 1
RECOMMENDED LIMITS OF
STUDY FOR HYDROLOGY

- Recommendations**
- Update study
 - Full study
 - No action

Project: Englewood MDP
Task: Data Collection
Map Date: 9/23/2020



Basin	Currently Adopted Study	Used for Currently Adopted Study			
		Hydrology Parameters			
		CUHP Topography	CUHP Land Use	CUHP Version	SWMM Version
<i>Dewberry 2020 MDP</i>	-	2013 LIDAR	Zoning data, current	2.0.1 (2019)	Version 5.1.015 (2020)
North Englewood	Calibre (OSP, 2019)	City of Englewood (1990s)	1997 Englewood zoning data	2016, version 2.0.0	Version 5.1.013
Central Englewood	Calibre (OSP, 2019)	City of Englewood (1990s)	1997 Englewood zoning data	2016, version 2.0.0	Version 5.1.013
South-Central Englewood	Calibre (OSP, 2019)	City of Englewood (1990s)	1997 Englewood zoning data	2016, version 2.0.0	Version 5.1.013
South Englewood	Calibre (OSP, 2019)	City of Englewood (1990s)	1997 Englewood zoning data	2016, version 2.0.0	Version 5.1.013
Yale Avenue	Calibre (OSP, 2019)	City of Englewood (1990s)	1997 Englewood zoning data	2016, version 2.0.0	Version 5.1.013
Big Dry Creek	RESPEC (MDP & FHAD, 2018)	2012 Ayres survey	Englewood zoning data	2005, version 1.4.2	Version 5.0.022.
Northeast Englewood	Matrix (MDP & FHAD, 2017)	2013 LiDAR Data	2014 Englewood zoning data	2005, version 1.4.4	Version 5.0.022.
Little Dry Creek	WRC (MDP & FHAD, 2004)	2001 G-Squared, LLC survey	Unspecified	2000, Version 1.1	UDSWM-2000, Version 1.4.1.
Bow Mar	TC & B (OSP, 1999)	City of Englewood (1990s)	1997 Englewood zoning data	1997 (CUHPFPC2)	UDSWM386
Federal Boulevard	TC & B (OSP, 1999)	City of Englewood (1990s)	1997 Englewood zoning data	1997 (CUHPFPC2)	UDSWM386
Evans Avenue	TC & B (OSP, 1999)	City of Englewood (1990s)	1997 Englewood zoning data	1997 (CUHPFPC2)	UDSWM386
Northwest Englewood	TC & B (OSP, 1999)	City of Englewood (1990s)	1997 Englewood zoning data	1997 (CUHPFPC2)	UDSWM386
West Harvard Gulch	TC & B (OSP, 1999)	City of Englewood (1990s)	1997 Englewood zoning data	1997 (CUHPFPC2)	UDSWM386
College View	TC & B (OSP, 1999)	City of Englewood (1990s)	1997 Englewood zoning data	1997 (CUHPFPC2)	UDSWM386
SW DFA	None	UNSTUDIED			
SE DFA	None	UNSTUDIED			
NW DFA	None	UNSTUDIED			
NE DFA	None	UNSTUDIED			
N DFA	None	UNSTUDIED			

Red	= Updated Recommended
Yellow	= Possible Update Recommended
Green	= No Update Recommended

Basin	Currently Adopted Study	Used for Currently Adopted Study			
		Hydrology Parameters			
		CUHP Topography	CUHP Land Use	CUHP Version	SWMM Version
<i>Dewberry 2020 MDP</i>	-	2013 LIDAR	Zoning data, current	2.0.1 (2019)	Version 5.1.015 (2020)
North Englewood	Calibre (OSP, 2019)	City of Englewood (1990s)	1997 Englewood zoning data	2016, version 2.0.0	Version 5.1.013
Central Englewood	Calibre (OSP, 2019)	City of Englewood (1990s)	1997 Englewood zoning data	2016, version 2.0.0	Version 5.1.013
South-Central Englewood	Calibre (OSP, 2019)	City of Englewood (1990s)	1997 Englewood zoning data	2016, version 2.0.0	Version 5.1.013
South Englewood	Calibre (OSP, 2019)	City of Englewood (1990s)	1997 Englewood zoning data	2016, version 2.0.0	Version 5.1.013
Yale Avenue	Calibre (OSP, 2019)	City of Englewood (1990s)	1997 Englewood zoning data	2016, version 2.0.0	Version 5.1.013
Big Dry Creek	RESPEC (MDP & FHAD, 2018)	2012 Ayres survey	Englewood zoning data	2005, version 1.4.2	Version 5.0.022.
Northeast Englewood	Matrix (MDP & FHAD, 2017)	2013 LiDAR Data	2014 Englewood zoning data	2005, version 1.4.4	Version 5.0.022.
Little Dry Creek	WRC (MDP & FHAD, 2004)	2001 G-Squared, LLC survey	Unspecified	2000, Version 1.1	UDSWM-2000, Version 1.4.1.
Bow Mar	TC & B (OSP, 1999)	City of Englewood (1990s)	1997 Englewood zoning data	1997 (CUHPFPC2)	UDSWM386
Federal Boulevard	TC & B (OSP, 1999)	City of Englewood (1990s)	1997 Englewood zoning data	1997 (CUHPFPC2)	UDSWM386
Evans Avenue	TC & B (OSP, 1999)	City of Englewood (1990s)	1997 Englewood zoning data	1997 (CUHPFPC2)	UDSWM386
Northwest Englewood	TC & B (OSP, 1999)	City of Englewood (1990s)	1997 Englewood zoning data	1997 (CUHPFPC2)	UDSWM386
West Harvard Gulch	TC & B (OSP, 1999)	City of Englewood (1990s)	1997 Englewood zoning data	1997 (CUHPFPC2)	UDSWM386
College View	TC & B (OSP, 1999)	City of Englewood (1990s)	1997 Englewood zoning data	1997 (CUHPFPC2)	UDSWM386
SW DFA	None	UNSTUDIED			
SE DFA	None	UNSTUDIED			
NW DFA	None	UNSTUDIED			
NE DFA	None	UNSTUDIED			
N DFA	None	UNSTUDIED			

Red	= Updated Recommended
Yellow	= Possible Update Recommended
Green	= No Update Recommended