



URBAN DRAINAGE AND FLOOD CONTROL DISTRICT

Paul A. Hindman, Executive Director
2480 W. 26th Avenue, Suite 156B
Denver, CO 80211-5304

Telephone 303-455-6277
Fax 303-455-7880
www.udfcd.org

January 27, 2016

Jeff Shoemaker, Executive Director
The Greenway Foundation
1855 S Pearl, St #40
Denver, CO 80210

RE: CWCB WSRA Grant – Final Report (CTTG1: 2015-3107)

Dear Mr. Shoemaker:

On behalf of the Urban Drainage and Flood Control District (District), it is my pleasure to submit to you a final report for the 2015 Colorado Water Conservation Board (CWCB) Water Supply Reserve Account (WSRA) grant awarded to The Greenway Foundation (TGF) for the 8th Avenue to 20th In-River, Recreation & Environmental Mitigation Project in the Metro River Basin.

The project has just reached the milestone of completing the Final Phase 1 Summary Report – SPR 6th Avenue to 58th Avenue. The information developed as part of this effort will be used to inform the project that Denver, the Greenway Foundation, and the District are working on as part of the USACE Feasibility Study. Information for accessing this report is below:

To access the FTP site, copy-and-paste the URL below into a Windows Explorer address bar. The password credentials are embedded in this URL for auto login when using Windows Explorer. Do not click on the link or use Internet Explorer or you will get an access denied error.

URL: <ftp://ftp16889:WR8x92Np@ftp.merrick.com/16889>

Subfolder: Phase I Summary Report

The attached final pay application provides a brief outline of the allocation the CWCB grant funds. The following summary briefly describes the tasks and deliverables identified in the original scope of work:

Task 1 – Project Management and Meetings

- Project Management Plan
- Project Schedule
- Monthly progress reports
- Monthly progress meetings and summaries
- Monthly stakeholder meetings and summaries
- Four (4) workshops with developers
- Two (2) small group/individual developer follow up meetings
- Public meeting (including graphics, displays & presentation)

Task 2 – Data Acquisition

- Summary meeting minutes of the project kick-off meeting
- A summary of existing data obtained will be incorporated as background information in the Phase I summary memorandum
- Project base mapping
- Existing river cross sections at approximately 100 ft. spacing
- Project mapping will be included in the Phase I summary memorandum
- Geotechnical results will be included with the Phase I summary memorandum
- 100-year floodplain TufLOW model results, including Depth Map and GIS data files for ground elevation, flow depth, and water surface elevations.

Task 3 – Floodplain Modeling and Hydraulic Analysis

- Existing and Proposed Conditions HEC-RAS models and results
- Electronic files of hydraulic models input and output data
- Map of Existing Conditions floodplain delineation
- Plan and Profile drawings of proposed channel improvements
- Conceptual opinion of probable costs of proposed channel improvements
- Letter Report summarizing hydraulic modeling and cost estimates

Task 4 – Identification of Alternatives

- Existing hydraulic analysis (HEC-RAS 100-year and 2-year, and TufLOW 2-year and low flow conditions)
- TufLOW floodplain results map and GIS output for Ringsby Court Overbank Spill (38th Avenue to 58th Avenue)
- 2D floodplain technical memorandum
- Overall Project Corridor Base Map with opportunities and constraints
- Technical memorandum summarizing Phase I
- Electronic file model input and output data will be included in the technical memorandum
- Attendance at workshop led by the Corps to identify array of alternatives

Task 5 – Environmental Evaluation

- Electronic file with boundaries of riparian vegetation, wetlands and open water
- Completed Routine Wetland Determination Forms and FACWet assessment forms and figures
- Completed field data forms
- Longnose dace HSI report with forms and figures
- Environmental Summary Report

Please let me know if you need anything else from me at this time.

Sincerely,



David Bennetts, P.E., CFM, Manager
Design, Construction, and Maintenance Program

Budget & Timeline Table - 6th Avenue to 58th Avenue River Study

Task	Description	Target Start Date	Target Completion Date	CWCB Funds	Denver/UDFCD Funds	Denver/UDFCD In-Kind Funding	Total
1	Project Management and Meetings	March 2015	March 2016	\$50,522.00	\$50,522.00	\$0.00	\$101,044.00
2	Data Acquisition	March 2015	June 2015	\$16,725.00	\$16,725.00	\$0.00	\$33,450.00
3	Floodplain Modeling and Hydraulic Analysis	March 2015	June 2015	\$0.00	\$0.00	\$362,570.00	\$362,570.00
4	Development of Alternatives	June 2015	March 2016	\$115,268.00	\$115,269.00	\$0.00	\$230,537.00
5	Conceptual Design of Selected Plan	June 2015	March 2016	\$39,346.00	\$39,347.00	\$0.00	\$78,693.00
6	Ecological and Special Services	March 2015	March 2016	\$227,288.00	\$127,289.00	\$0.00	\$354,577.00
	TOTALS			\$449,149.00	\$349,152.00	\$362,570.00	\$1,160,871.00