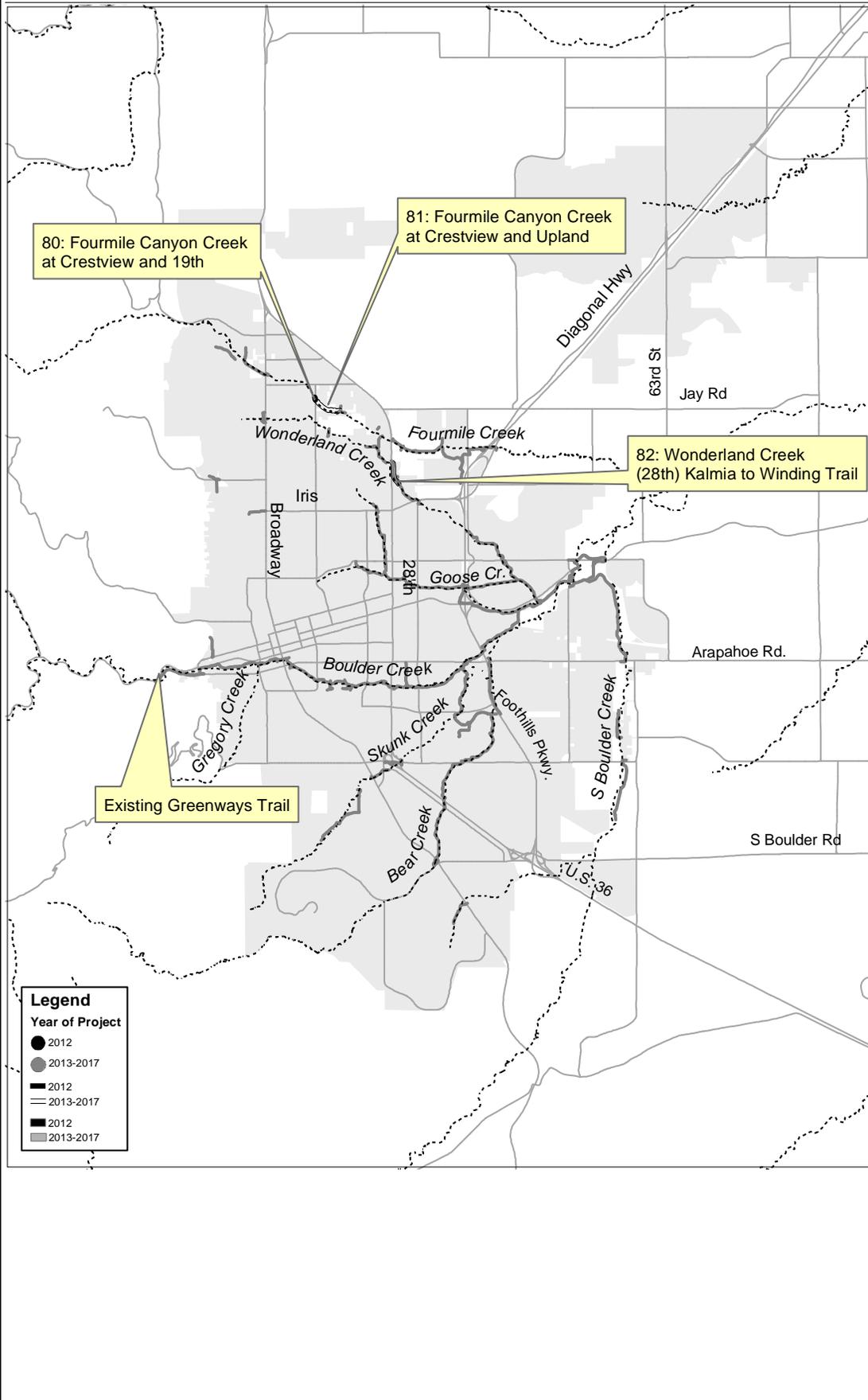




# TRIBUTARY GREENWAYS

# City of Boulder Capital Improvement Projects, 2012 - 2017

## PW/Tributary Greenways



## Tributary Greenways

The city of Boulder Greenways System is comprised of a series of corridors along riparian areas including Boulder Creek and its 14 tributaries, which provide an opportunity to integrate multiple objectives, including habitat protection, water quality enhancement, storm drainage and floodplain management, alternative transportation routes for pedestrians and bicyclists, recreation and cultural resources. In order to maximize the overlap of objectives and to coordinate projects along the Greenways, identification of projects for the 2012-2017 Greenways Capital Improvement Program was done as a team effort, combining input from Flood Utilities, Transportation, Parks and Recreation, Water Quality and Environmental Services, Environmental Affairs, Planning and Open Space and Mountain Parks.



The Greenways System is comprised of a series of Corridors along riparian areas

The Greenways CIP follows an opportunistic approach, contributing funding toward projects that are being completed by other departments or private development in order to meet the various objectives of the Greenways Program. The Greenways CIP also looks to leverage funds with outside agencies in order to move projects forward that meet more than one objective of the Greenways Program, but may not be the highest priority when evaluating any one particular objective.

### FUNDING OVERVIEW

The total 2012 Greenways budget is \$450,000, with \$105,000 in operating and \$345,000 in the capital budget. Greenways projects are funded from the Transportation Fund, Stormwater and Flood Management Utility Fund, and the Lottery Fund. Of the \$450,000 of total funding, only \$345,000 is available for capital projects with \$105,000 transferred separately from the Transportation and Utilities Divisions funds.

### ACCOMPLISHMENTS AND HIGHLIGHTS

- Elmer's Twomile Greenway project was completed in June 2010. This project included a grade-separated, multi-use path connection from Goose Creek to Glenwood Drive, an underpass at Valmont Road and flood mitigation improvements.
- The focus of the 2012-2017 Greenways CIP is on flood mitigation, bicycle and pedestrian multi-use paths and underpasses, and habitat and water quality improvements along the Fourmile and Wonderland Creek corridors.

In addition to the projects along Fourmile Canyon Creek and Wonderland Creek, possible habitat restoration projects during the next few years include:

- Stream bank restoration along Boulder Creek at Eben Fine Park
- Confluence of Bear Creek and Boulder Creek at Foothills Community Hospital in conjunction with the multi-use trail connection to 48th Street, a culvert removal under Bear Creek and drainage improvements to the underpass at Foothills and Arapahoe
- Dry Creek habitat improvements through Flatirons Golf Course

- Goose Creek, railroad to 47th Street tree plantings
- Goose Creek habitat improvements at the Transit Village
- Fish Passage enhancement projects in association with Fishing is Fun grants
- South Boulder Creek minimum stream flow

During 2010, a conceptual design for a stream bank restoration plan in Eben G. Fine Park was initiated. A design consultant was hired and an initial public open house to solicit input and comments is scheduled for May 2, 2011. Greenways also partnered with the Open Space and Mountain Parks Department during 2010-2011 to construct a fence along Fourmile Canyon Creek between 28th Street and the Pleasantview Soccer fields in order to preserve habitat and water quality.



## RELATIONSHIP TO GUIDING PRINCIPLES AND PRIORITIZATION

The projects identified in the 2012-2017 CIP are consistent with the department master plans identified below.

The Greenways CIP has been developed within the context of and is consistent with the Boulder Valley Comprehensive Plan (BVCP), the Transportation Master Plan (TMP), the major drainageway plans, the Comprehensive Flood and Stormwater Master Plan and the Greenways Master Plan. The Greenways Master Plan is being updated during 2011 to reflect improvements that have been completed and approved, and adopted changes that have been made in other master plans, city policies and ordinances that affect the Greenways Program since the last Master Plan update in 2001. Information from other existing master plans for seven additional tributaries will also be incorporated into the Greenways Master Plan update. Future opportunities will also be coordinated with the Open Space and Mountain Park's Grassland Plan and Visitor Master Plan and Trail Study Area plans where appropriate.

Transportation and flood utility projects were identified from the Transportation Master Plan, and the major drainageway plans, and intra-departmental meetings were held to determine project priorities and timing. Private development activities were also evaluated. Many of the Greenways projects shown in the CIP are being designed and constructed in coordination with major flood or transportation improvements. The Greenways funding associated with these projects focuses on habitat restoration, water quality improvements and trail connections. In addition to leveraging funding with the Transportation and Flood Utilities budgets, funding for Greenways projects is also available through the Urban Drainage and Flood Control District and Federal Transportation funds.

All projects proposed have sufficient funds for ongoing operations and maintenance.

## DEFERRED PROJECTS, CHANGES AND UNFUNDED NEEDS

Since the Greenways Program is opportunistic, taking advantage of projects that are funded through other departments, there are no unfunded needs. The 2012-2017 Greenways and

Habitat restoration is an important part of the Greenways program.

Flood CIPs include sufficient funding to complete:

- Wonderland Creek from Foothills to 30th Streets (100 year flood mitigation) and multi-use path
- Crestview Underpasses at 19th Streets along Fourmile Canyon Creek (High Hazard flood mitigation) and multi-use path connection
- Wonderland Creek at 28th Street (High Hazard or 100 year flood mitigation)

The Wonderland Creek from Foothills to 30th Street was recently granted Federal Transportation Improvement Program (TIP) funds in the amount of \$2 million (2012-2014). This additional funding has made it possible to move Greenways funding previously shown in 2011 from this project to the Crestview Underpass at 19th Street project and funding previously shown in 2014 for the Crestview Underpass at 19th Street to the Wonderland at 28th Street project.

The flood mitigation work for these projects will address high hazard flooding, unless significant outside funding is obtained, which will allow the city to construct flood improvements that address properties that are in the 100 year floodplain.

On-going discussions have occurred related to the operating budget of the Greenways program being reflected in the CIP budget. As part of the 2012 budget, the operating portion of the Greenways program is being reallocated from the CIP to the operating budget in both Transportation and Utilities.

## EMERGING NEEDS

None.

## BOARD ACTION

The Greenways Advisory Committee reviewed and unanimously approved the Greenways CIP on May 2, 2011.

Installation of a pedestrian bridge as part of the Elmer's Twomile Greenways Project



**2012-2017 Capital Improvements Program**

PW/ Tributary Greenways

06-Jan-12

	2012 Approved	2013 Projected	2014 Projected	2015 Projected	2016 Projected	2017 Projected	6-year Total	Prev Alloc Funding	Unfunded Amount
<b>Est Total Cost</b>									
<b>New Construction - Not Growth Related</b>									
Fourmile Canyon Creek at Crestview & 19th	195,000	195,000	0	0	0	0	390,000	195,000	0
Wonderland Creek (28th) Kalmia to Windin	0	0	195,000	170,441	170,441	0	535,882	0	0
Fourmile Canyon Creek at Crestview and U	0	0	0	0	0	170,441	170,441	0	0
<b>Project Type Total:</b>	<b>195,000</b>	<b>195,000</b>	<b>195,000</b>	<b>170,441</b>	<b>170,441</b>	<b>170,441</b>	<b>1,096,323</b>	<b>195,000</b>	<b>0</b>
<b>On-Going Projects</b>									
Greenways Project Administration	100,000	100,000	100,000	100,000	100,000	100,000	600,000	0	0
Miscellaneous Water Quality, Restoration a	50,000	50,000	50,000	50,000	50,000	50,000	300,000	125,970	0
<b>Project Type Total:</b>	<b>150,000</b>	<b>150,000</b>	<b>150,000</b>	<b>150,000</b>	<b>150,000</b>	<b>150,000</b>	<b>900,000</b>	<b>125,970</b>	<b>0</b>
<b>Department Total:</b>	<b>345,000</b>	<b>345,000</b>	<b>345,000</b>	<b>320,441</b>	<b>320,441</b>	<b>320,441</b>	<b>1,996,323</b>	<b>320,970</b>	<b>0</b>

**2012-2017 Capital Improvements Program  
Project Status Report**

<b>Project Name:</b> Fourmile Canyon Creek at Crestview & 19th	<b>Project Number:</b> 	<b>Map Number:</b> 80
-------------------------------------------------------------------	----------------------------	--------------------------

<b>Department:</b> PW/ Tributary Greenways	<b>Subcommunity:</b> North Boulder
<b>Funding Source:</b> Tributary Greenways	<b>BVCPArea:</b> Area I
<b>Project Type:</b> New Construction - Not Growth Related	
<b>CEAP Required:</b> Yes	<b>CEAP Completed:</b> currently in progress

**Project Description:**  
Project includes improvements to Fourmile Canyon Creek, flood mitigation, environmental restoration and off-street trail connections. These improvements will be done in conjunction with work being done by the Flood Utilities Division, Transportation Division and the Parks Department.

The first phase of the improvements at Crestview (19th to 22nd) includes carry over money of \$815,859 from flood and \$585,000 from Greenways (2011-2013) for a total project cost of \$1,400,000 as follows:  
 1. Planning: \$200,000  
 2. Acquisition: \$200,000  
 3. Construction: \$1,000,000  
 The project is anticipated to be completed in 2013.

**Relationship to Guiding Principals:**  
This project is listed in the Greenways Master Plan and the Transportation Master Plan and the Fourmile Canyon Creek and Wonderland Creek Flood Mitigation Plan and the North Boulder Subcommunity Plan.

**Public Process Status, Issues:**  
The CEAP for this project will be reviewed by the Greenways Advisory Committee.

**Relationship with Other Departments:**  
All work along the Greenways is coordinated through the Greenways staff group that includes representatives from the Open Space Department, Parks and Recreation Department, Environmental Affairs, Planning Department and Transportation and Utilities Divisions.

Capital Funding Plan							
Est Total Cost	2012	2013	2014	2015	2016	2017	6-year Total
\$1,400,859	\$195,000	\$195,000	\$0	\$0	\$0	\$0	\$390,000

<b>Prev Alloc Funding</b> \$195,000	<b>Unfunded Amount</b> \$0
----------------------------------------	-------------------------------

**Change from Prior Year:** separating Fourmile and Wonderland improvements into discrete projects

**Annual On-going Operating Costs** \$1,000

**Description:** will be covered by existing maintenance budgets

**Source of Funding:**

**2012-2017 Capital Improvements Program  
Project Status Report**

<b>Project Name:</b> Fourmile Canyon Creek at Crestview and Upland	<b>Project Number:</b> 	<b>Map Number:</b> 81
-----------------------------------------------------------------------	----------------------------	--------------------------

<b>Department:</b> PW/ Tributary Greenways	<b>Subcommunity:</b> North Boulder
<b>Funding Source:</b> Tributary Greenways	<b>BVCPArea:</b> 
<b>Project Type:</b> New Construction - Not Growth Related	
<b>CEAP Required:</b> Yes	<b>CEAP Completed:</b> 

**Project Description:**  
Project includes improvements to Fourmile Canyon Creek, flood mitigation, environmental restoration and off-street trail connections. These improvements will be done in conjunction with work being done by the Flood Utilities Division, Transportation Division and the Parks Department.

There is a \$1,000,000 from flood and \$195,000 from Greenways shown in the CIP in 2017 for improvements along Fourmile between Upland and 19th. A detailed cost estimate has not been developed for this project yet.

**Relationship to Guiding Principals:**  
This project is listed in the Greenways Master Plan and the Transportation Master Plan and the Fourmile Canyon Creek and Wonderland Creek Flood Mitigation Plan and the North Boulder Subcommunity Plan.

**Public Process Status, Issues:**  
The CEAP for this project will be reviewed by the Greenways Advisory Committee.

**Relationship with Other Departments:**  
All work along the Greenways is coordinated through the Greenways staff group that includes representatives from the Open Space Department, Parks and Recreation Department, Environmental Affairs, Planning Department and Transportation and Utilities Divisions.

Capital Funding Plan							
Est Total Cost	2012	2013	2014	2015	2016	2017	6-year Total
	\$0	\$0	\$0	\$0	\$0	\$170,441	\$170,441

<b>Prev Alloc Funding</b> \$0	<b>Unfunded Amount</b> 
----------------------------------	----------------------------

**Change from Prior Year:** separating Fourmile and Wonderland improvements into discrete projects

**Annual On-going Operating Costs** \$1,000

**Description:** will be covered by existing maintenance budgets

**Source of Funding:**

**2012-2017 Capital Improvements Program  
Project Status Report**

<b>Project Name:</b> Greenways Project Administration	<b>Project Number:</b> 	<b>Map Number:</b> 0
----------------------------------------------------------	----------------------------	-------------------------

<b>Department:</b> PW/ Tributary Greenways	<b>Subcommunity:</b> System-wide
<b>Funding Source:</b> Tributary Greenways	<b>BVCPArea:</b> System-wide
<b>Project Type:</b> On-Going Projects	
<b>CEAP Required:</b> No	<b>CEAP Completed:</b> 

**Project Description:**  
This line item includes funding for the administration of Greenways projects including all of the projects along Fourmile and Wonderland Creek.

**Relationship to Guiding Principals:**  
This funding supports projects that are recommended in the Greenways Master Plan.

**Public Process Status, Issues:**  
N/A

**Relationship with Other Departments:**  
All work along the Greenways is coordinated through the Greenways staff group that includes representatives from the Open Space Department, Parks and Recreation Department, Environmental Affairs, Planning Department and Transportation and Utilities Divisions.

Capital Funding Plan							
Est Total Cost	2012	2013	2014	2015	2016	2017	6-year Total
	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$600,000

<b>Prev Alloc Funding</b> \$0	<b>Unfunded Amount</b> \$0
----------------------------------	-------------------------------

**Change from Prior Year:** administrative costs associated with maintenance moved to operating budget

**Annual On-going Operating Costs**

<b>Description:</b>	Greenways project coordination and oversight
<b>Source of Funding:</b>	Greenways CIP

**2012-2017 Capital Improvements Program  
Project Status Report**

<b>Project Name:</b> Miscellaneous Water Quality, Restoration and Trail Improvements	<b>Project Number:</b> 	<b>Map Number:</b> 0
-----------------------------------------------------------------------------------------	----------------------------	-------------------------

<b>Department:</b> PW/ Tributary Greenways	<b>Subcommunity:</b> System-wide
<b>Funding Source:</b> Tributary Greenways	<b>BVCPArea:</b> System-wide
<b>Project Type:</b> On-Going Projects	
<b>CEAP Required:</b> No	<b>CEAP Completed:</b> 

**Project Description:**  
Miscellaneous water quality, habitat resoration and trail improvements projects.

This project is for an ongoing funding program. In 2012, this funding will be used to help fund stream bank restoration improvements along Boulder Creek at Eben Fine Park and potential joint restoration projects in conjunction with Open Space along Boulder Creek and South Boulder Creek

**Relationship to Guiding Principals:**  
These projects are listed in the Greenways Master Plan Update.

**Public Process Status, Issues:**  
Projects will be coordinated with Transportation, Utilities, Parks and Open Space or the developers of a property.

**Relationship with Other Departments:**  
Projects are developed with input from the City's Transportation, Utilities, Open Space Department, the Parks Department, Boulder County and the Environmental Affairs program, as well as through coordination with developers.

Capital Funding Plan							
Est Total Cost	2012	2013	2014	2015	2016	2017	6-year Total
	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$300,000

<b>Prev Alloc Funding</b> \$125,970	<b>Unfunded Amount</b> \$0
----------------------------------------	-------------------------------

**Change from Prior Year:** \_\_\_\_\_

**Annual On-going Operating Costs** \_\_\_\_\_

**Description:** \_\_\_\_\_  
**Source of Funding:** \_\_\_\_\_

**2012-2017 Capital Improvements Program  
Project Status Report**

<b>Project Name:</b> Wonderland Creek (28th) Kalmia to Winding Trail	<b>Project Number:</b> 	<b>Map Number:</b> 82
-------------------------------------------------------------------------	----------------------------	--------------------------

<b>Department:</b> PW/ Tributary Greenways	<b>Subcommunity:</b> North Boulder
<b>Funding Source:</b> Tributary Greenways	<b>BVCPArea:</b> 
<b>Project Type:</b> New Construction - Not Growth Related	
<b>CEAP Required:</b> Yes	<b>CEAP Completed:</b> 

**Project Description:**

Project includes improvements to Wonderland Creek, flood mitigation, environmental restoration and off-street trail connections. These improvements will be done in conjunction with work being done by the Flood Utilities Division, Transportation Division and the Parks Department.

The Wonderland at 28th St (from Kalmia to Winding Trail) will begin in 2013. The total project cost is \$5,085,000, with \$585,000 from Greenways and \$4,500,000 from flood distributed as follows:

- 1 Planning: \$760,000
- 2 Acquisition: \$200,000
- 3 Construction: \$4,125,000

**Relationship to Guiding Principals:**

This project is listed in the Greenways Master Plan and the Transportation Master Plan and the Fourmile Canyon Creek and Wonderland Creek Flood Mitigation Plan and the North Boulder Subcommunity Plan.

**Public Process Status, Issues:**

The CEAP for this project will be reviewed by the Greenways Advisory Committee.

**Relationship with Other Departments:**

All work along the Greenways is coordinated through the Greenways staff group that includes representatives from the Open Space Department, Parks and Recreation Department, Environmental Affairs, Planning Department and Transportation and Utilities Divisions.

Capital Funding Plan							
Est Total Cost	2012	2013	2014	2015	2016	2017	6-year Total
\$5,085,000	\$0	\$0	\$195,000	\$170,441	\$170,441	\$0	\$535,882

<b>Prev Alloc Funding</b> \$0	<b>Unfunded Amount</b> 
----------------------------------	----------------------------

**Change from Prior Year:** separating Fourmile and Wonderland improvements into discrete projects

**Annual On-going Operating Costs** \$1,000

**Description:** will be covered by existing maintenance staff  
**Source of Funding:**

This page is intentionally blank

