



# CHATFIELD RESERVOIR REALLOCATION STUDY

## FEDERAL BRIEFING BOOK

### SEPTEMBER 2010

#### DOWNSTREAM WATER PROVIDERS:

CITY OF AURORA  
CITY OF BRIGHTON  
CENTRAL COLORADO WATER CONSERVANCY DISTRICT  
DENVER BOTANIC GARDENS AT CHATFIELD  
WESTERN MUTUAL DITCH COMPANY

#### INSTREAM WATER INTERESTS:

CITY AND COUNTY OF DENVER  
DENVER WATER  
THE GREENWAY FOUNDATION  
CITY OF LITTLETON  
METRO WASTEWATER RECLAMATION DISTRICT

#### UPSTREAM WATER PROVIDERS:

TOWN OF CASTLE ROCK  
CASTLE PINES METROPOLITAN DISTRICT  
CASTLE PINES NORTH METROPOLITAN DISTRICT  
CENTENNIAL WATER AND SANITATION DISTRICT  
CENTER OF COLORADO WATER CONSERVANCY DISTRICT  
COLORADO DIVISION OF PARKS AND OUTDOOR RECREATION  
MT. CARBON METROPOLITAN DISTRICT  
PERRY PARK COUNTRY CLUB  
ROXBOROUGH WATER AND SANITATION DISTRICT  
SOUTH METRO WATER SUPPLY AUTHORITY

#### GOVERNMENT STAKEHOLDERS:

COLORADO GOVERNOR BILL RITTER  
COLORADO GENERAL ASSEMBLY  
COLORADO GENERAL ASSEMBLY DOUGLAS COUNTY LEGISLATORS  
COLORADO DEPARTMENT OF NATURAL RESOURCES  
COLORADO DIVISION OF WILDLIFE  
COLORADO WATER CONSERVATION BOARD (NON-FEDERAL SPONSOR)  
DOUGLAS COUNTY BOARD OF COMMISSIONERS  
WELD COUNTY BOARD OF COMMISSIONERS  
CHATFIELD WATERSHED AUTHORITY  
DOUGLAS COUNTY WATER RESOURCE AUTHORITY  
METRO BASIN ROUNDTABLE  
SOUTH SUBURBAN PARKS AND RECREATION DISTRICT  
SOUTH PLATTE BASIN ROUNDTABLE  
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT

#### NON-PROFIT STAKEHOLDERS:

AUDUBON SOCIETY OF GREATER DENVER  
CHATFIELD BASIN CONSERVATION NETWORK  
COLORADO ENVIRONMENTAL COALITION  
THE NATURE CONSERVANCY  
SIERRA CLUB, SOUTH PLATTE GROUP  
TROUT UNLIMITED  
WESTERN RESOURCE ADVOCATES

# **CHATFIELD RESERVOIR REALLOCATION STUDY**

## **FEDERAL BRIEFING BOOK**

**SEPTEMBER 2010**

### **Downstream Water Providers:**

City of Aurora  
City of Brighton  
Central Colorado Water Conservancy District  
Denver Botanic Gardens at Chatfield  
Western Mutual Ditch Company

### **Instream Water Interests:**

City and County of Denver  
Denver Water  
The Greenway Foundation  
City of Littleton  
Metro Wastewater Reclamation District

### **Upstream Water Providers:**

Town of Castle Rock  
Castle Pines Metropolitan District  
Castle Pines North Metropolitan District  
Centennial Water and Sanitation District  
Center of Colorado Water Conservancy District  
Colorado Division of Parks & Outdoor Recreation  
Mt. Carbon Metropolitan District  
Perry Park Country Club  
Roxborough Water and Sanitation District  
South Metro Water Supply Authority

### **Government Stakeholders:**

Colorado Governor Bill Ritter  
Colorado General Assembly  
Colorado General Assembly Douglas County Legislators  
Colorado Department of Natural Resources  
Colorado Division of Wildlife  
Colorado Water Conservation Board (non-federal sponsor)  
Douglas County Board of Commissioners  
Weld County Board of Commissioners  
Chatfield Watershed Authority  
Douglas County Water Resource Authority  
Metro Basin Roundtable  
South Suburban Parks and Recreation District  
The South Platte Basin Roundtable  
Urban Drainage and Flood Control District

### **Non-Profit Stakeholders:**

Audubon Society of Greater Denver  
Chatfield Basin Conservation Network  
Colorado Environmental Coalition  
The Nature Conservancy  
Sierra Club, South Platte Group  
Trout Unlimited  
Western Resource Advocates

# **TABLE OF CONTENTS**

**Section 1: Chatfield Reservoir Reallocation  
Coordinating Committee Washington, DC  
Delegation Representatives**

**Section 2: Chatfield Request Letter**

**Section 3: Chatfield Reservoir Reallocation  
Overview**

**Section 4: Chatfield Reservoir Reallocation  
Project Participants Map**

**Section 5: Federal and State Actions**

**Section 6: Summaries of Participants' Water  
Conservation Programs**

**Section 7: Letters and Resolutions of  
Support**



# **SECTION: 1**

## **CHATFIELD RESERVOIR REALLOCATION COORDINATING COMMITTEE WASHINGTON, DC DELEGATION REPRESENTATIVES**



# **SOUTH PLATTE RIVER CHATFIELD RESERVOIR REALLOCATION STUDY**

**Washington, DC Chatfield Delegation Representatives  
September 21-23, 2010**

Tom Browning, Colorado Water Conservation Board

Frank Eckhardt, Western Mutual Ditch Company

Gary Herman, Central Colorado Water Conservancy District

David Howlett, Capitol Representatives

Randy Knutson, Central Colorado Water Conservancy District

John Lagomarcino, Capitol Representatives

Rick McLoud, Centennial Water and Sanitation District

Jack Ostrowski, Castle Pines Metropolitan District

Marge Price, Capitol Representatives

Randy Ray, Central Colorado Water Conservancy District

Ronda Sandquist, Squire, Sanders & Dempsey L.L.P.  
(Roxborough Water and Sanitation District)

Mark Shively, Castle Pines North Metropolitan District

Kip Stastny, The Greenway Foundation

Jeff Shoemaker, The Greenway Foundation

Britta Strother, South Metro Water Supply Authority

**SECTION: 2**

**CHATFIELD REQUEST LETTER**



# THE GREENWAY FOUNDATION

Planning, Building, Protecting and Enhancing Communities, Parks, Trails and Waterways  
Since 1974

September 21, 2010

Honorable Jeffrey Zients, Acting Director  
Office of Management and Budget  
Eisenhower Executive Office Building  
725 – 17<sup>th</sup> Street, NW  
Washington, DC 20503

Dear Mr. Zients:

On behalf of the Chatfield Reservoir Reallocation Study (Study), I am writing to ask for your continued leadership and support for our efforts.

We need to be certain that U. S. Army Corps of Engineers resources continue to be fully available to the Omaha District Civil Works staff to complete the Feasibility Report (FR) and Environmental Impact Statement (EIS) for the Study, leading to a Record of Decision, so that additional storage space within Chatfield Reservoir becomes available for water supply and other needs in a timely manner.

The non-federal sponsor request for federal funding for FY2012 for the Chatfield Reallocation FR/EIS and related studies is under development in conjunction with the Omaha District. The Omaha Corps capability for the continuation of this study process in FY2012 is expected to be covered by this amount, which will be matched by local resources through cash and in-kind services. Funding for this and preliminary studies began in 1999, and has continued into 2010. The federal cost through FY2009 is \$2,661,000. (The FR/EIS process requires a 50:50 cost share between the federal government and the local sponsor.)

Success of the Study will be measured by the ability of Front Range water entities to store excess water in the reservoir as a result of snowmelt and stormwater runoff.

The Study was authorized in the Water Resources Development Act (WRDA) 1986. Recent actions by the U. S. Army Corps of Engineers have determined that Chatfield Reservoir, located in the upstream portion of metropolitan Denver, may be reallocated for multiple uses without jeopardizing its original flood control purposes.

The Study's goal is to support maximizing the highest and best use of

**"A river is more than an amenity, it is a treasure"** Justice WM. O Douglas

**CHAIRMAN**

Joe Shoemaker

**VICE CHAIRMAN**

Kip Stastny

Jon Bridges  
Bar Chadwick  
Larry Elrod  
John Moran  
Gary Roffe  
Lesley Roper  
Paula Sandoval  
Pete West

**EXECUTIVE DIRECTOR**

Jeff Shoemaker

**SPECIAL EVENTS**

**DIRECTOR**

Cindy Shoemaker

**DEVELOPMENT**

**DIRECTOR**

Lisa May

**SPREE PROGRAM**

**DIRECTOR**

Jolon Clark



available Chatfield Reservoir capacity for purposes of meeting municipal and agricultural water supply needs while simultaneously balancing the needs of recreation interests, environmental opportunities and increasing the potential for instream environmental benefits along the South Platte River through the Denver metropolitan area. The following stakeholders are supportive of the Study:

**Government:**

Colorado Governor Bill Ritter  
Colorado General Assembly  
Colorado General Assembly Douglas County Legislators  
Colorado Division of Wildlife  
Colorado Water Conservation Board (non-federal sponsor)  
Douglas County Board of Commissioners  
Douglas County Water Resource Authority  
Metro Basin Roundtable  
South Suburban Parks & Recreation District  
The South Platte Basin Roundtable  
Urban Drainage & Flood Control District  
Weld County Board of Commissioners

**Non-Profit:**

Audubon Society of Greater Denver  
The Nature Conservancy  
Trout Unlimited  
Western Resource Advocates

**Downstream Users:**

City of Aurora  
City of Brighton  
Central Colorado Water Conservancy District  
Colorado Division of Parks & Outdoor Recreation  
Denver Botanic Gardens at Chatfield  
Western Mutual Ditch Company

**Instream Users:**

City and County of Denver  
Denver Water  
The Greenway Foundation  
City of Littleton  
Metro Wastewater Reclamation District

**Upstream Users:**

Town of Castle Rock  
Castle Pines Metropolitan District  
Castle Pines North Metropolitan District  
Centennial Water and Sanitation District  
Center of Colorado Water Conservancy District  
Mount Carbon Metropolitan District  
Perry Park Country Club  
Roxborough Water and Sanitation District  
South Metro Water Supply Authority

The South Platte River provides drinking water, irrigation water, fish and wildlife habitat, and recreational and quality of life benefits to millions of our citizens in a location that has been targeted as an area of high likelihood of water supply crises by 2025. The long-term management of the river will require the deliberate and earnest balance of traditional water resources demands with environmental objectives. Letters and resolutions of support for this effort are included in this packet.

Thank you for your time and consideration.

Yours truly,



Jeff Shoemaker  
Executive Director

THANK YOU, MR. ZIENTS!



# THE GREENWAY FOUNDATION

Planning, Building, Protecting and Enhancing Communities, Parks, Trails and Waterways  
Since 1974

September 21, 2010

Honorable Jo-Ellen Darcy  
Assistant Secretary of the Army for Civil Works  
Department of the Army  
The Pentagon, Room 3E446  
Washington, DC 20310-0108

Dear Secretary Darcy:

On behalf of the Chatfield Reservoir Reallocation Study (Study), I am writing to ask for your continued leadership and support for our efforts.

We need to be certain that U. S. Army Corps of Engineers resources continue to be fully available to the Omaha District Civil Works staff to complete the Feasibility Report (FR) and Environmental Impact Statement (EIS) for the Study, leading to a Record of Decision, so that additional storage space within Chatfield Reservoir becomes available for water supply and other needs in a timely manner.

The non-federal sponsor request for federal funding for FY2012 for the Chatfield Reallocation FR/EIS and related studies is under development in conjunction with the Omaha District. The Omaha Corps capability for the continuation of this study process in FY2012 is expected to be covered by this amount, which will be matched by local resources through cash and in-kind services. Funding for this and preliminary studies began in 1999, and has continued into 2010. The federal cost through FY2009 is \$2,661,000. (The FR/EIS process requires a 50:50 cost share between the federal government and the local sponsor.)

Success of the Study will be measured by the ability of Front Range water entities to store excess water in the reservoir as a result of snowmelt and stormwater runoff.

The Study was authorized in the Water Resources Development Act (WRDA) 1986. Recent actions by the U. S. Army Corps of Engineers have determined that Chatfield Reservoir, located in the upstream portion of metropolitan Denver, may be reallocated for multiple uses without jeopardizing its original flood control purposes.

The Study's goal is to support maximizing the highest and best use of

**"A river is more than an amenity, it is a treasure"** Justice WM. O Douglas

**CHAIRMAN**

Joe Shoemaker

**VICE CHAIRMAN**

Kip Stastny

Jon Bridges

Bar Chadwick

Larry Elrod

John Moran

Gary Roffe

Lesley Roper

Paula Sandoval

Pete West

**EXECUTIVE DIRECTOR**

Jeff Shoemaker

**SPECIAL EVENTS**

**DIRECTOR**

Cindy Shoemaker

**DEVELOPMENT**

**DIRECTOR**

Lisa May

**SPREE PROGRAM**

**DIRECTOR**

Jolon Clark





# THE GREENWAY FOUNDATION

Planning, Building, Protecting and Enhancing Communities, Parks, Trails and Waterways  
Since 1974

September 21, 2010

Major Gen. Don T. Riley  
Director, Civil Works  
United States Army Corps of Engineers  
441 G Street, NW  
Washington, DC 20314

Dear General Riley:

On behalf of the Chatfield Reservoir Reallocation Study (Study), I am writing to ask for your continued leadership and support for our efforts.

We need to be certain that U. S. Army Corps of Engineers resources continue to be fully available to the Omaha District Civil Works staff to complete the Feasibility Report (FR) and Environmental Impact Statement (EIS) for the Study, leading to a Record of Decision, so that additional storage space within Chatfield Reservoir becomes available for water supply and other needs in a timely manner.

The non-federal sponsor request for federal funding for FY2012 for the Chatfield Reallocation FR/EIS and related studies is under development in conjunction with the Omaha District. The Omaha Corps capability for the continuation of this study process in FY2012 is expected to be covered by this amount, which will be matched by local resources through cash and in-kind services. Funding for this and preliminary studies began in 1999, and has continued into 2010. The federal cost through FY2009 is \$2,661,000. (The FR/EIS process requires a 50:50 cost share between the federal government and the local sponsor.)

Success of the Study will be measured by the ability of Front Range water entities to store excess water in the reservoir as a result of snowmelt and stormwater runoff.

The Study was authorized in the Water Resources Development Act (WRDA) 1986. Recent actions by the U. S. Army Corps of Engineers have determined that Chatfield Reservoir, located in the upstream portion of metropolitan Denver, may be reallocated for multiple uses without jeopardizing its original flood control purposes.

The Study's goal is to support maximizing the highest and best use of

**"A river is more than an amenity, it is a treasure"** Justice WM. O Douglas

**CHAIRMAN**  
Joe Shoemaker

**VICE CHAIRMAN**  
Kip Stastny

Jon Bridges  
Bar Chadwick  
Larry Elrod  
John Moran  
Gary Roffe  
Lesley Roper  
Paula Sandoval  
Pete West

**EXECUTIVE DIRECTOR**  
Jeff Shoemaker

**SPECIAL EVENTS  
DIRECTOR**  
Cindy Shoemaker

**DEVELOPMENT  
DIRECTOR**  
Lisa May

**SPREE PROGRAM  
DIRECTOR**  
Jolon Clark



# THE GREENWAY FOUNDATION

Planning, Building, Protecting and Enhancing Communities, Parks, Trails and Waterways  
Since 1974

September 21, 2010

**CHAIRMAN**

Joe Shoemaker

**VICE CHAIRMAN**

Kip Stastny

Jon Bridges

Bar Chadwick

Larry Elrod

John Moran

Gary Roffe

Lesley Roper

Paula Sandoval

Pete West

**EXECUTIVE DIRECTOR**

Jeff Shoemaker

**SPECIAL EVENTS  
DIRECTOR**

Cindy Shoemaker

**DEVELOPMENT  
DIRECTOR**

Lisa May

**SPREE PROGRAM  
DIRECTOR**

Jolon Clark

Honorable Mark Udall  
United States Senate  
Washington, DC 20510

Dear Senator Udall:

On behalf of the Chatfield Reservoir Reallocation Study (Study), I am writing to ask for your continued leadership and support for our efforts.

We need to be certain that U. S. Army Corps of Engineers resources continue to be fully available to the Omaha District Civil Works staff to complete the Feasibility Report (FR) and Environmental Impact Statement (EIS) for the Study, leading to a Record of Decision, so that additional storage space within Chatfield Reservoir becomes available for water supply and other needs in a timely manner.

The non-federal sponsor request for federal funding for FY2012 for the Chatfield Reallocation FR/EIS and related studies is under development in conjunction with the Omaha District. The Omaha Corps capability for the continuation of this study process in FY2012 is expected to be covered by this amount, which will be matched by local resources through cash and in-kind services. Funding for this and preliminary studies began in 1999, and has continued into 2010. The federal cost through FY2009 is \$2,661,000. (The FR/EIS process requires a 50:50 cost share between the federal government and the local sponsor.)

Success of the Study will be measured by the ability of Front Range water entities to store excess water in the reservoir as a result of snowmelt and stormwater runoff.

The Study was authorized in the Water Resources Development Act (WRDA) 1986. Recent actions by the U. S. Army Corps of Engineers have determined that Chatfield Reservoir, located in the upstream portion of metropolitan Denver, may be reallocated for multiple uses without jeopardizing its original flood control purposes.

The Study's goal is to support maximizing the highest and best use of

**"A river is more than an amenity, it is a treasure"** Justice WM. O Douglas

The Greenway Foundation is supported in part by  
the Scientific and Cultural Facilities District as well  
as a gift from the Estate of Robert V. and Billie Mae Behrent.

5299 DTC Blvd., Suite 710, Greenwood Village, CO 80111  
303.455.7109

FAX 303.455.7234

[www.greenwayfoundation.org](http://www.greenwayfoundation.org)





# THE GREENWAY FOUNDATION

Planning, Building, Protecting and Enhancing Communities, Parks, Trails and Waterways  
Since 1974

September 21, 2010

**CHAIRMAN**

Joe Shoemaker

**VICE CHAIRMAN**

Kip Stastny

Jon Bridges

Bar Chadwick

Larry Elrod

John Moran

Gary Roffe

Lesley Roper

Paula Sandoval

Pete West

**EXECUTIVE DIRECTOR**

Jeff Shoemaker

**SPECIAL EVENTS  
DIRECTOR**

Cindy Shoemaker

**DEVELOPMENT  
DIRECTOR**

Lisa May

**SPREE PROGRAM  
DIRECTOR**

Jolon Clark

Honorable Michael Bennet  
United States Senate  
Washington, DC 20510

Dear Senator Bennet:

On behalf of the Chatfield Reservoir Reallocation Study (Study), I am writing to ask for your continued leadership and support for our efforts.

We need to be certain that U. S. Army Corps of Engineers resources continue to be fully available to the Omaha District Civil Works staff to complete the Feasibility Report (FR) and Environmental Impact Statement (EIS) for the Study, leading to a Record of Decision, so that additional storage space within Chatfield Reservoir becomes available for water supply and other needs in a timely manner.

The non-federal sponsor request for federal funding for FY2012 for the Chatfield Reallocation FR/EIS and related studies is under development in conjunction with the Omaha District. The Omaha Corps capability for the continuation of this study process in FY2012 is expected to be covered by this amount, which will be matched by local resources through cash and in-kind services. Funding for this and preliminary studies began in 1999, and has continued into 2010. The federal cost through FY2009 is \$2,661,000. (The FR/EIS process requires a 50:50 cost share between the federal government and the local sponsor.)

Success of the Study will be measured by the ability of Front Range water entities to store excess water in the reservoir as a result of snowmelt and stormwater runoff.

The Study was authorized in the Water Resources Development Act (WRDA) 1986. Recent actions by the U. S. Army Corps of Engineers have determined that Chatfield Reservoir, located in the upstream portion of metropolitan Denver, may be reallocated for multiple uses without jeopardizing its original flood control purposes.

The Study's goal is to support maximizing the highest and best use of

**"A river is more than an amenity, it is a treasure" Justice WM. O Douglas**

The Greenway Foundation is supported in part by  
the Scientific and Cultural Facilities District as well  
as a gift from the Estate of Robert V. and Billie Mae Behrent.

5299 DTC Blvd., Suite 710, Greenwood Village, CO 80111  
303.455.7109  
FAX: 303.455.7234

[www.greenwayfoundation.org](http://www.greenwayfoundation.org)





# THE GREENWAY FOUNDATION

Planning, Building, Protecting and Enhancing Communities, Parks, Trails and Waterways  
Since 1974

September 21, 2010

**CHAIRMAN**

Joe Shoemaker

**VICE CHAIRMAN**

Kip Stastry

Jon Bridges

Bar Chadwick

Larry Elrod

John Moran

Gary Roffe

Lesley Roper

Paula Sandoval

Pete West

**EXECUTIVE DIRECTOR**

Jeff Shoemaker

**SPECIAL EVENTS**

**DIRECTOR**

Cindy Shoemaker

**DEVELOPMENT**

**DIRECTOR**

Lisa May

**SPREE PROGRAM**

**DIRECTOR**

Jolon Clark

Honorable Diana L. DeGette  
U.S. House of Representatives  
Washington, DC 20515

Dear Representative DeGette:

On behalf of the Chatfield Reservoir Reallocation Study (Study), I am writing to ask for your continued leadership and support for our efforts.

We need to be certain that U. S. Army Corps of Engineers resources continue to be fully available to the Omaha District Civil Works staff to complete the Feasibility Report (FR) and Environmental Impact Statement (EIS) for the Study, leading to a Record of Decision, so that additional storage space within Chatfield Reservoir becomes available for water supply and other needs in a timely manner.

The non-federal sponsor request for federal funding for FY2012 for the Chatfield Reallocation FR/EIS and related studies is under development in conjunction with the Omaha District. The Omaha Corps capability for the continuation of this study process in FY2012 is expected to be covered by this amount, which will be matched by local resources through cash and in-kind services. Funding for this and preliminary studies began in 1999, and has continued into 2010. The federal cost through FY2009 is \$2,661,000. (The FR/EIS process requires a 50:50 cost share between the federal government and the local sponsor.)

Success of the Study will be measured by the ability of Front Range water entities to store excess water in the reservoir as a result of snowmelt and stormwater runoff.

The Study was authorized in the Water Resources Development Act (WRDA) 1986. Recent actions by the U. S. Army Corps of Engineers have determined that Chatfield Reservoir, located in the upstream portion of metropolitan Denver, may be reallocated for multiple uses without jeopardizing its original flood control purposes.

The Study's goal is to support maximizing the highest and best use of

**"A river is more than an amenity, it is a treasure"** Justice WM. O Douglas



# THE GREENWAY FOUNDATION

Planning, Building, Protecting and Enhancing Communities, Parks, Trails and Waterways  
Since 1974

September 21, 2010

**CHAIRMAN**

Joe Shoemaker

**VICE CHAIRMAN**

Kip Stastny

Jon Bridges

Bar Chadwick

Larry Elrod

John Moran

Gary Roffe

Lesley Roper

Paula Sandoval

Pete West

**EXECUTIVE DIRECTOR**

Jeff Shoemaker

**SPECIAL EVENTS**

**DIRECTOR**

Cindy Shoemaker

**DEVELOPMENT**

**DIRECTOR**

Lisa May

**SPREE PROGRAM**

**DIRECTOR**

Jolon Clark

Honorable Jared Polis

U.S. House of Representatives

Washington, DC 20515

Dear Representative Polis:

On behalf of the Chatfield Reservoir Reallocation Study (Study), I am writing to ask for your continued leadership and support for our efforts.

We need to be certain that U. S. Army Corps of Engineers resources continue to be fully available to the Omaha District Civil Works staff to complete the Feasibility Report (FR) and Environmental Impact Statement (EIS) for the Study, leading to a Record of Decision, so that additional storage space within Chatfield Reservoir becomes available for water supply and other needs in a timely manner.

The non-federal sponsor request for federal funding for FY2012 for the Chatfield Reallocation FR/EIS and related studies is under development in conjunction with the Omaha District. The Omaha Corps capability for the continuation of this study process in FY2012 is expected to be covered by this amount, which will be matched by local resources through cash and in-kind services. Funding for this and preliminary studies began in 1999, and has continued into 2010. The federal cost through FY2009 is \$2,661,000. (The FR/EIS process requires a 50:50 cost share between the federal government and the local sponsor.)

Success of the Study will be measured by the ability of Front Range water entities to store excess water in the reservoir as a result of snowmelt and stormwater runoff.

The Study was authorized in the Water Resources Development Act (WRDA) 1986. Recent actions by the U. S. Army Corps of Engineers have determined that Chatfield Reservoir, located in the upstream portion of metropolitan Denver, may be reallocated for multiple uses without jeopardizing its original flood control purposes.

The Study's goal is to support maximizing the highest and best use of

**"A river is more than an amenity, it is a treasure"** Justice WM. O Douglas





# THE GREENWAY FOUNDATION

Planning, Building, Protecting and Enhancing Communities, Parks, Trails and Waterways  
Since 1974

September 21, 2010

**CHAIRMAN**

Joe Shoemaker

**VICE CHAIRMAN**

Kip Stastny

Jon Bridges

Bar Chadwick

Larry Elrod

John Moran

Gary Roffe

Lesley Roper

Paula Sandoval

Pete West

**EXECUTIVE DIRECTOR**

Jeff Shoemaker

**SPECIAL EVENTS  
DIRECTOR**

Cindy Shoemaker

**DEVELOPMENT  
DIRECTOR**

Lisa May

**SPREE PROGRAM  
DIRECTOR**

Jolon Clark

Honorable John T. Salazar  
U.S. House of Representatives  
Washington, DC 20515

Dear Representative Salazar:

On behalf of the Chatfield Reservoir Reallocation Study (Study), I am writing to ask for your continued leadership and support for our efforts.

We need to be certain that U. S. Army Corps of Engineers resources continue to be fully available to the Omaha District Civil Works staff to complete the Feasibility Report (FR) and Environmental Impact Statement (EIS) for the Study, leading to a Record of Decision, so that additional storage space within Chatfield Reservoir becomes available for water supply and other needs in a timely manner.

The non-federal sponsor request for federal funding for FY2012 for the Chatfield Reallocation FR/EIS and related studies is under development in conjunction with the Omaha District. The Omaha Corps capability for the continuation of this study process in FY2012 is expected to be covered by this amount, which will be matched by local resources through cash and in-kind services. Funding for this and preliminary studies began in 1999, and has continued into 2010. The federal cost through FY2009 is \$2,661,000. (The FR/EIS process requires a 50:50 cost share between the federal government and the local sponsor.)

Success of the Study will be measured by the ability of Front Range water entities to store excess water in the reservoir as a result of snowmelt and stormwater runoff.

The Study was authorized in the Water Resources Development Act (WRDA) 1986. Recent actions by the U. S. Army Corps of Engineers have determined that Chatfield Reservoir, located in the upstream portion of metropolitan Denver, may be reallocated for multiple uses without jeopardizing its original flood control purposes.

The Study's goal is to support maximizing the highest and best use of

**"A river is more than an amenity, it is a treasure"** Justice WM. O Douglas

The Greenway Foundation is supported in part by  
the Scientific and Cultural Facilities District as well  
as a gift from the Estate of Robert V. and Billie Mae Behrent.

5299 DTC Blvd., Suite 710, Greenwood Village, CO 80111  
303.455.7109

FAX: 303.455.7234

[www.greenwayfoundation.org](http://www.greenwayfoundation.org)





# THE GREENWAY FOUNDATION

Planning, Building, Protecting and Enhancing Communities, Parks, Trails and Waterways  
Since 1974

September 21, 2010

**CHAIRMAN**

Joe Shoemaker

**VICE CHAIRMAN**

Kip Stastny

Jon Bridges

Bar Chadwick

Larry Elrod

John Moran

Gary Roffe

Lesley Roper

Paula Sandoval

Pete West

**EXECUTIVE DIRECTOR**

Jeff Shoemaker

**SPECIAL EVENTS  
DIRECTOR**

Cindy Shoemaker

**DEVELOPMENT  
DIRECTOR**

Lisa May

**SPREE PROGRAM  
DIRECTOR**

Jolon Clark

Honorable Betsy Markey  
U.S. House of Representatives  
Washington, DC 20515

Dear Representative Markey:

On behalf of the Chatfield Reservoir Reallocation Study (Study), I am writing to ask for your continued leadership and support for our efforts.

We need to be certain that U. S. Army Corps of Engineers resources continue to be fully available to the Omaha District Civil Works staff to complete the Feasibility Report (FR) and Environmental Impact Statement (EIS) for the Study, leading to a Record of Decision, so that additional storage space within Chatfield Reservoir becomes available for water supply and other needs in a timely manner.

The non-federal sponsor request for federal funding for FY2012 for the Chatfield Reallocation FR/EIS and related studies is under development in conjunction with the Omaha District. The Omaha Corps capability for the continuation of this study process in FY2012 is expected to be covered by this amount, which will be matched by local resources through cash and in-kind services. Funding for this and preliminary studies began in 1999, and has continued into 2010. The federal cost through FY2009 is \$2,661,000. (The FR/EIS process requires a 50:50 cost share between the federal government and the local sponsor.)

Success of the Study will be measured by the ability of Front Range water entities to store excess water in the reservoir as a result of snowmelt and stormwater runoff.

The Study was authorized in the Water Resources Development Act (WRDA) 1986. Recent actions by the U. S. Army Corps of Engineers have determined that Chatfield Reservoir, located in the upstream portion of metropolitan Denver, may be reallocated for multiple uses without jeopardizing its original flood control purposes.

The Study's goal is to support maximizing the highest and best use of

**"A river is more than an amenity, it is a treasure"** Justice WM. O Douglas



# THE GREENWAY FOUNDATION

Planning, Building, Protecting and Enhancing Communities, Parks, Trails and Waterways  
Since 1974

September 21, 2010

**CHAIRMAN**

Joe Shoemaker

**VICE CHAIRMAN**

Kip Stastny

Jon Bridges

Bar Chadwick

Larry Elrod

John Moran

Gary Roffe

Lesley Roper

Paula Sandoval

Pete West

**EXECUTIVE DIRECTOR**

Jeff Shoemaker

**SPECIAL EVENTS  
DIRECTOR**

Cindy Shoemaker

**DEVELOPMENT  
DIRECTOR**

Lisa May

**SPREE PROGRAM  
DIRECTOR**

Jolon Clark

Honorable Doug Lamborn  
U.S. House of Representatives  
Washington, DC 20515

Dear Representative Lamborn:

On behalf of the Chatfield Reservoir Reallocation Study (Study), I am writing to ask for your continued leadership and support for our efforts.

We need to be certain that U. S. Army Corps of Engineers resources continue to be fully available to the Omaha District Civil Works staff to complete the Feasibility Report (FR) and Environmental Impact Statement (EIS) for the Study, leading to a Record of Decision, so that additional storage space within Chatfield Reservoir becomes available for water supply and other needs in a timely manner.

The non-federal sponsor request for federal funding for FY2012 for the Chatfield Reallocation FR/EIS and related studies is under development in conjunction with the Omaha District. The Omaha Corps capability for the continuation of this study process in FY2012 is expected to be covered by this amount, which will be matched by local resources through cash and in-kind services. Funding for this and preliminary studies began in 1999, and has continued into 2010. The federal cost through FY2009 is \$2,661,000. (The FR/EIS process requires a 50:50 cost share between the federal government and the local sponsor.)

Success of the Study will be measured by the ability of Front Range water entities to store excess water in the reservoir as a result of snowmelt and stormwater runoff.

The Study was authorized in the Water Resources Development Act (WRDA) 1986. Recent actions by the U. S. Army Corps of Engineers have determined that Chatfield Reservoir, located in the upstream portion of metropolitan Denver, may be reallocated for multiple uses without jeopardizing its original flood control purposes.

The Study's goal is to support maximizing the highest and best use of

**"A river is more than an amenity, it is a treasure"** Justice WM. O Douglas





# THE GREENWAY FOUNDATION

Planning, Building, Protecting and Enhancing Communities, Parks, Trails and Waterways  
Since 1974

September 21, 2010

**CHAIRMAN**

Joe Shoemaker

**VICE CHAIRMAN**

Kip Stastny

Jon Bridges

Bar Chadwick

Larry Elrod

John Moran

Gary Roffe

Lesley Roper

Paula Sandoval

Pete West

**EXECUTIVE DIRECTOR**

Jeff Shoemaker

**SPECIAL EVENTS  
DIRECTOR**

Cindy Shoemaker

**DEVELOPMENT  
DIRECTOR**

Lisa May

**SPREE PROGRAM  
DIRECTOR**

Jolon Clark

Honorable Mike Coffman  
U.S. House of Representatives  
Washington, DC 20515

Dear Representative Coffman:

On behalf of the Chatfield Reservoir Reallocation Study (Study), I am writing to ask for your continued leadership and support for our efforts.

We need to be certain that U. S. Army Corps of Engineers resources continue to be fully available to the Omaha District Civil Works staff to complete the Feasibility Report (FR) and Environmental Impact Statement (EIS) for the Study, leading to a Record of Decision, so that additional storage space within Chatfield Reservoir becomes available for water supply and other needs in a timely manner.

The non-federal sponsor request for federal funding for FY2012 for the Chatfield Reallocation FR/EIS and related studies is under development in conjunction with the Omaha District. The Omaha Corps capability for the continuation of this study process in FY2012 is expected to be covered by this amount, which will be matched by local resources through cash and in-kind services. Funding for this and preliminary studies began in 1999, and has continued into 2010. The federal cost through FY2009 is \$2,661,000. (The FR/EIS process requires a 50:50 cost share between the federal government and the local sponsor.)

Success of the Study will be measured by the ability of Front Range water entities to store excess water in the reservoir as a result of snowmelt and stormwater runoff.

The Study was authorized in the Water Resources Development Act (WRDA) 1986. Recent actions by the U. S. Army Corps of Engineers have determined that Chatfield Reservoir, located in the upstream portion of metropolitan Denver, may be reallocated for multiple uses without jeopardizing its original flood control purposes.

The Study's goal is to support maximizing the highest and best use of

**"A river is more than an amenity, it is a treasure"** Justice WM. O Douglas





# THE GREENWAY FOUNDATION

Planning, Building, Protecting and Enhancing Communities, Parks, Trails and Waterways  
Since 1974

September 21, 2010

**CHAIRMAN**

Joe Shoemaker

**VICE CHAIRMAN**

Kip Stastny

Jon Bridges

Bar Chadwick

Larry Elrod

John Moran

Gary Roffe

Lesley Roper

Paula Sandoval

Pete West

**EXECUTIVE DIRECTOR**

Jeff Shoemaker

**SPECIAL EVENTS**

**DIRECTOR**

Cindy Shoemaker

**DEVELOPMENT**

**DIRECTOR**

Lisa May

**SPREE PROGRAM**

**DIRECTOR**

Jolon Clark

Honorable Ed Perlmutter

U.S. House of Representatives

Washington, DC 20515

Dear Representative Perlmutter:

On behalf of the Chatfield Reservoir Reallocation Study (Study), I am writing to ask for your continued leadership and support for our efforts.

We need to be certain that U. S. Army Corps of Engineers resources continue to be fully available to the Omaha District Civil Works staff to complete the Feasibility Report (FR) and Environmental Impact Statement (EIS) for the Study, leading to a Record of Decision, so that additional storage space within Chatfield Reservoir becomes available for water supply and other needs in a timely manner.

The non-federal sponsor request for federal funding for FY2012 for the Chatfield Reallocation FR/EIS and related studies is under development in conjunction with the Omaha District. The Omaha Corps capability for the continuation of this study process in FY2012 is expected to be covered by this amount, which will be matched by local resources through cash and in-kind services. Funding for this and preliminary studies began in 1999, and has continued into 2010. The federal cost through FY2009 is \$2,661,000. (The FR/EIS process requires a 50:50 cost share between the federal government and the local sponsor.)

Success of the Study will be measured by the ability of Front Range water entities to store excess water in the reservoir as a result of snowmelt and stormwater runoff.

The Study was authorized in the Water Resources Development Act (WRDA) 1986. Recent actions by the U. S. Army Corps of Engineers have determined that Chatfield Reservoir, located in the upstream portion of metropolitan Denver, may be reallocated for multiple uses without jeopardizing its original flood control purposes.

The Study's goal is to support maximizing the highest and best use of

"A river is more than an amenity, it is a treasure" Justice WM. O Douglas



# THE GREENWAY FOUNDATION

Planning, Building, Protecting and Enhancing Communities, Parks, Trails and Waterways

September 21, 2010

Since 1974

## CHAIRMAN

Joe Shoemaker

## VICE CHAIRMAN

Kip Stastny

Jon Bridges  
Bar Chadwick  
Larry Elrod  
John Moran  
Gary Roffe  
Lesley Roper  
Paula Sandoval  
Pete West

## EXECUTIVE DIRECTOR

Jeff Shoemaker

## SPECIAL EVENTS DIRECTOR

Cindy Shoemaker

## DEVELOPMENT DIRECTOR

Lisa May

## SPREE PROGRAM DIRECTOR

Jolán Clark

Roger K. Cockrell  
Professional Staff Member  
Subcommittee on Energy & Water Development  
Committee on Appropriations  
United States Senate  
186 Dirksen Senate Office Building  
Washington, DC 20510

Dear Mr. Cockrell:

On behalf of the Chatfield Reservoir Reallocation Study (Study), I am writing to ask for your continued leadership and support for our efforts.

We need to be certain that U. S. Army Corps of Engineers resources continue to be fully available to the Omaha District Civil Works staff to complete the Feasibility Report (FR) and Environmental Impact Statement (EIS) for the Study, leading to a Record of Decision, so that additional storage space within Chatfield Reservoir becomes available for water supply and other needs in a timely manner.

The non-federal sponsor request for federal funding for FY2012 for the Chatfield Reallocation FR/EIS and related studies is under development in conjunction with the Omaha District. The Omaha Corps capability for the continuation of this study process in FY2012 is expected to be covered by this amount, which will be matched by local resources through cash and in-kind services. Funding for this and preliminary studies began in 1999, and has continued into 2010. The federal cost through FY2009 is \$2,661,000. (The FR/EIS process requires a 50:50 cost share between the federal government and the local sponsor.)

Success of the Study will be measured by the ability of Front Range water entities to store excess water in the reservoir as a result of snowmelt and stormwater runoff.

The Study was authorized in the Water Resources Development Act (WRDA) 1986. Recent actions by the U. S. Army Corps of Engineers have determined that Chatfield Reservoir, located in the upstream portion of metropolitan Denver, may be reallocated for multiple uses without jeopardizing its original flood control purposes.

The Study's goal is to support maximizing the highest and best use of  
"A river is more than an amenity, it is a treasure" Justice WM. O Douglas





# THE GREENWAY FOUNDATION

Planning, Building, Protecting and Enhancing Communities, Parks, Trails and Waterways

September 21, 2010

Since 1974

## CHAIRMAN

Joe Shoemaker

## VICE CHAIRMAN

Kip Stastny

Jon Bridges

Bar Chadwick

Larry Elrod

John Moran

Gary Roffe

Lesley Roper

Paula Sandoval

Pete West

## EXECUTIVE DIRECTOR

Jeff Shoemaker

## SPECIAL EVENTS

### DIRECTOR

Cindy Shoemaker

## DEVELOPMENT

### DIRECTOR

Lisa May

## SPREE PROGRAM

### DIRECTOR

Jolon Clark

Taunja Berquam

Professional Staff Member

Subcommittee on Energy and Water Development, and Related Agencies

Committee on Appropriations

U.S. House of Representatives

2362-B Rayburn House Office Building

Washington, DC 20515

Dear Ms. Berquam:

On behalf of the Chatfield Reservoir Reallocation Study (Study), I am writing to ask for your continued leadership and support for our efforts.

We need to be certain that U. S. Army Corps of Engineers resources continue to be fully available to the Omaha District Civil Works staff to complete the Feasibility Report (FR) and Environmental Impact Statement (EIS) for the Study, leading to a Record of Decision, so that additional storage space within Chatfield Reservoir becomes available for water supply and other needs in a timely manner.

The non-federal sponsor request for federal funding for FY2012 for the Chatfield Reallocation FR/EIS and related studies is under development in conjunction with the Omaha District. The Omaha Corps capability for the continuation of this study process in FY2012 is expected to be covered by this amount, which will be matched by local resources through cash and in-kind services. Funding for this and preliminary studies began in 1999, and has continued into 2010. The federal cost through FY2009 is \$2,661,000. (The FR/EIS process requires a 50:50 cost share between the federal government and the local sponsor.)

Success of the Study will be measured by the ability of Front Range water entities to store excess water in the reservoir as a result of snowmelt and stormwater runoff.

The Study was authorized in the Water Resources Development Act (WRDA) 1986. Recent actions by the U. S. Army Corps of Engineers have determined that Chatfield Reservoir, located in the upstream portion of metropolitan Denver, may be reallocated for multiple uses without jeopardizing its original flood control purposes.

The Study's goal is to support maximizing the highest and best use of  
"A river is more than an amenity, it is a treasure" Justice WM. O Douglas



## **SECTION 3:**

# **CHATFIELD RESERVOIR REALLOCATION OVERVIEW**

**Chatfield Reservoir Storage Reallocation  
Study executive summary**

**Reallocation of Chatfield Reservoir Storage  
for Multiple Uses**

**Chatfield Reservoir Reallocation Project  
Project Summary and Project Funding  
History**

**Denver Water: Chatfield Reservoir**





US Army Corps  
of Engineers

# Chatfield Reservoir Storage Reallocation Study



## Background:

Chatfield Reservoir was built in 1975 by the U.S. Army Corps of Engineers (Corps) at the confluence of the South Platte River and Plum Creek to control flooding. The reservoir currently has the ability to store more than 350,000 acre-feet (AF) of water. The main purpose of the reservoir is for flood control, but it also provides storage space for conservation (or "multipurpose") water, which is used for municipal, industrial, agricultural and recreational uses, as well as maintaining fisheries and wildlife habitat.

## Regional Water Demand:

Colorado's population is projected to increase by 65% from 4.34 million in 2000 to 7.16 million in 2030. The Statewide Water Supply Initiative, commissioned by the State Legislature, estimates that by 2030, water demand along the Front Range will exceed supply by 22%, leaving 90,700 AF of unmet needs. (The average suburban household uses around one-half of an acre-foot per year.) Water users have looked to Chatfield Reservoir as one of the potential solutions to store surface water and reduce their dependency on non-tributary (non-renewable) groundwater.

## Chatfield Reservoir Storage Reallocation Study:

The Colorado Water Conservation Board (CWCBC), a division of the Department of Natural Resources, has contracted with the Corps to investigate the feasibility of "reallocating" some of the storage space in Chatfield Reservoir. **The concept behind reallocation is to re-designate storage space that is currently reserved for flood control purposes to space for joint flood control *and* conservation purposes, effectively increasing capacity for multipurpose water.**

The Corps is preparing a detailed Feasibility Report and Environmental Impact Statement (FR/EIS) to evaluate the potential impacts and costs of four alternatives: two options for reallocation and two alternatives for water users if no action is taken at Chatfield. The Corps will release Draft and Final versions of the FR/EIS for review before issuing a Record of Decision (ROD) on any action.

## Proposed Alternatives: (SEE MAP ON REVERSE.)

- 1) **No Action: New Storage Construction:** Without reallocation, water providers could consider using gravel pit storage and constructing a reservoir in the area.
- 2) **No Action: NTGW/Gravel Pits:** Without reallocation, water providers could continue reliance on non-tributary groundwater (NTGW) and gravel pit storage.
- 3) **Reallocation for 20,600 AF storage:** Raises top elevation of the existing conservation pool by 12 feet to 5,444 feet above mean sea level (feet m.s.l.). This is the maximum storage volume available for reallocation without negatively affecting the reservoir's flood control function. Fifteen water users would share the new joint flood control-conservation storage space, their use of which could cause fluctuations in lake levels.
- 4) **Reallocation for 7,700 AF storage:** Raises top elevation of the conservation pool by 5 feet to 5,437 feet m.s.l. Fifteen water users would share the new joint flood control-conservation storage space, their use of which could cause fluctuations in lake levels.

## Evaluating Potential Impacts and Mitigation

The FR/EIS will evaluate each alternative's potential impact on and potential mitigation for:

- Recreational Facilities and Activities
- Wildlife and Fisheries
- Vegetation
- Aquatic, Wetland and Land Habitat
- Rare, Threatened and Endangered Species
- Water Supply Resources
- Water & Air Quality
- Cultural & Socioeconomic Resources
- Flood Control

## Study Participants & Stakeholders:

The Corps is the lead federal agency and the CWCBC is the State (non-federal) sponsor of the study. Other interested parties include: U.S. Fish and Wildlife Service, Colorado State Parks, Colorado Division of Wildlife, local water providers, interest groups and the public.



## Public Participation:

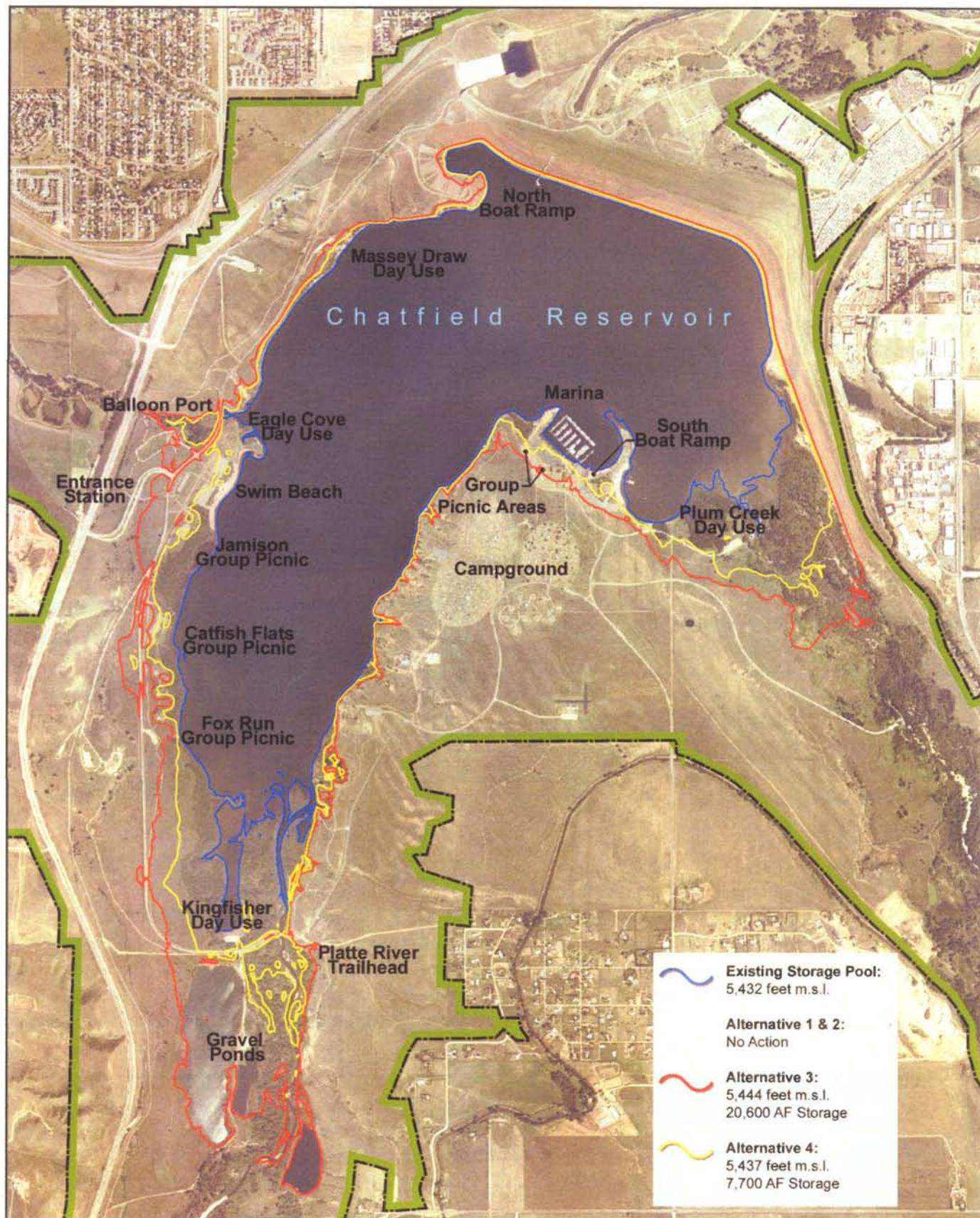
The Draft FR/EIS is anticipated to be released in 2009. The public will play an important role during a comment period following the release by providing feedback on the Draft at public meetings and in writing.


## To stay informed about the study's progress:

- Visit the study Web site for more information and to add your name to our mailing list: [www.chatfieldstudy.org](http://www.chatfieldstudy.org)
- Call the study's toll-free line with questions: **1-866-643-5875**



# Proposed Chatfield Reservoir Storage Reallocation Alternatives




 Study Boundary

Rev. 12-08

EDAW  
6/2/08  
Aerial Photograph: May 1999

**Chatfield Reservoir Storage Reallocation FR/EIS**  
Proposed Chatfield Storage Reallocation Alternatives

 0 1,000 2,000 Feet



# Reallocation of Chatfield Reservoir Storage for Multiple Uses

## Current Situation

The South Platte River is the birthplace of Denver. From the very beginning, the River provided water supply and a place to dispose of unwanted belongings. As late as the early 1970's, the River was uninviting and nasty - its dark and smelly waters rarely visited by the members of the community, belying its value



as a source of drinking water, irrigation water and refuge for wildlife. Thankfully the nature of the relationship between the River and the community has changed over the past decades, with a "renaissance" occurring over the past 35 years. A vital component of that renaissance has been the development and expansion of parks and other amenities along the river's corridor that have renewed the connection between water and people, and water and wildlife.

As in many areas in the West, the South Platte River has become under increasing pressure to provide for the various and diverse needs of its community - human and wildlife - which leads to decreased flows, and therefore decreased options to meet the needs of the growing population.

## The Challenge

The citizens of the Denver Metropolitan Area are faced with a tremendous opportunity, and a challenge, associated with leveraging the storage within Chatfield Reservoir. Just in the past few weeks, USACE HQ has come to understand that the reservoir's original purpose - that of flood control protection to the downstream population - can be expanded without detriment or compromise to its original mission.

The reallocation of the storage in Chatfield Reservoir creates a tremendous opportunity to

address one of the "Key National Water Resources Challenges" that USACE Civil Works identified in its 2004 Strategic Plan, namely that the USACE needs to assist the country's citizens to "Achieve greater balance between traditional water resources demands and environmental/ecosystem objectives." We are looking to fully engage the challenge identified by the USACE and develop an appropriate means to leverage future flow enhancements for both traditional water resource demands and the needs of the river environment through an urban and suburban setting. This has not been done in the US by the USACE before!



**To address this challenge and leverage this once-in-a-lifetime opportunity, a strong political coalition has been developed linking many different water users and jurisdictions across the Denver Metropolitan Area - linked by a common need for and desire to manage that most precious resource - the South Platte River.**

## Our Goals

- Engage USACE in a policy discussion to develop and adopt metrics and criteria for evaluating environmental benefits within an urban and suburban area.
- Develop environmental benefit alternatives for downstream water users that help to offset future costs associated with the reallocated Chatfield Storage.
- Expand and maintain strong local political consortium to support USACE programs in and along the South Platte to benefit the local water community.
- Overall, maximize the beneficial use of available Chatfield Reservoir capacity for purposes of meeting instream needs, without compromising municipal and agricultural water supply needs.



## USACE Environmental Operating Principles

1. Strive to achieve environmental sustainability
2. Recognize the interdependence of life and the physical environment
3. Seek balance and synergy among human development activities and natural systems by designing economic and environmental solutions that support and reinforce one another
4. Continue to accept corporate responsibility and accountability under the law for activities and decisions under our control that impact human health and welfare and the continued viability of natural systems
5. Seek ways and means to assess and mitigate cumulative impacts to the environment; bring systems approaches to the full life cycle of processes and work
6. Build and share an integrated scientific, economic and social knowledge base that supports a greater understanding of the environment and impacts of the our work
7. Respect the views of individuals and groups interested in Corps activities - listen actively and learn from their perspectives in the search to find innovative win-win solutions to the Nation's problems that also protect and enhance the environment

### Our Team

Our project stakeholders include:

Colorado Water Conservation Board  
Colorado Division of Wildlife  
Urban Drainage and Flood Control District

Central Colorado Water Conservancy District  
City of Aurora  
City of Brighton  
Western Mutual Ditch Company

Audubon Society of Greater Denver  
City and County of Denver  
City of Littleton  
Denver Water  
Metropolitan Wastewater Reclamation District  
The Greenway Foundation

### Our Project Needs

- Member support for swift passage of WRDA
- Member support to continue flow of USACE funds to Omaha Civil Works for the Reallocation EIS and Feasibility Report and for other downstream evaluations
- Member understanding and encouragement of active and fruitful policy discussions with USACE to develop new or revised environmental metrics and criteria for an urban and/or suburban river corridor
- May need Member support for new or revised USACE policies





# Chatfield Reservoir Reallocation Project

*Providing Municipal, Agricultural, Environmental, and Recreational Water Supply Benefits to the South Platte River*

*Representing Upstream, Downstream and Instream Stakeholders*

## Project Summary:

**Chatfield Reservoir:** Owned and Operated by U.S. Army Corps of Engineers

**Current Purpose:** Flood Control to Protect Metropolitan Denver, Recreation

**Future Purpose:** Flood Control Protection, Water Supply, Environmental, Recreation

**Process for Re-Programming Project Purpose**

- Create Program Management Plan/Execute Feasibility Cost Share Agreement with CWCB
- Downstream impacts, seismic study, flood plain mapping, H&H Modeling
- Revise Antecedent Flood Storage Requirements, Rare Plant Survey
- Perform and Complete Environmental Impact Statement and Feasibility Report
- Evaluate and Quantify Environmental Benefits to Downstream Ecosystem
- Establish Implementation Plan (implement mitigation, execute local water contracts)

## Project Funding History:

(Authorized as Chatfield, Cherry Creek, Bear Creek Reservoir Studies in 1997)

Year	FY97	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11
PHASE	GI	GI	FS	FS	FS	FS	FS	EIS	EIS	EIS	EIS	EIS	EIS	EIS	EIS
Federal Allocation (in \$1,000)	\$100		\$118	\$318	\$187	\$150	\$128	\$244	\$276	\$166	\$354	\$269	\$191 / \$160	\$200 (\$110 / \$90)	\$267



## Chatfield Reservoir

### **Background:**

Chatfield Reservoir is a flood control reservoir on the South Platte River owned and operated by the U.S. Army Corps of Engineers. It was built in response to the devastating floods of 1965 that caused millions of dollars of damage in Denver. The reservoir has the ability to store more than 300,000 acre-feet of flood waters from the South Platte River and Plum Creek. Denver Water can use about 27,400 acre-feet of space in Chatfield. Denver Water uses its own water rights to fill and maintain water in the reservoir. Pursuant to an agreement with the State of Colorado, Denver Water manages its water for municipal supply, while also maintaining water levels for recreation. The land at Chatfield is leased to the State of Colorado, which operates Chatfield State Park. Below are some common questions we receive concerning Chatfield:

- **How does Denver Water use its storage space in Chatfield?**

Denver Water uses its space in Chatfield to capture bypass flows it releases from Strontia Springs Reservoir, located a few miles upstream of Chatfield. The bypass flows maintain the trout fishery in Waterton Canyon.

- **How does Denver Water use its water in Chatfield?**

Denver Water uses its water in Chatfield primarily for exchange to Denver's upstream reservoirs. An exchange is a trade of water. Water is released from Chatfield to supply a senior agricultural water right downstream of Chatfield, in exchange for allowing Denver Water to divert a like amount of water at its upstream reservoirs that have junior water rights, such as Cheesman or Eleven Mile. Exchanges of water help fill Denver's upstream reservoirs, from which water can be delivered to Denver Water's treatment plants. Without exchange, Denver Water would miss opportunities to store more water in its upstream reservoirs. Denver Water also has a temporary pump installed in Chatfield that can access the top five feet of the reservoir. This water is pumped to Marston Reservoir.

- **How low can Chatfield get?**

Denver's use of its water in Chatfield is governed by an agreement between Denver Water and the State of Colorado. In most years, the reservoir stays above elevation 5426 (feet) until around Labor Day to maximize recreation. However, in a drought, Denver can lower the reservoir level to elevation 5423. During severe drought conditions, Denver may lower the reservoir below 5423. Recreation at Chatfield is impacted at elevations below 5423.

- **What is the Chatfield Reservoir Reallocation project?**

The Army Corps of Engineers has determined that a 20,600 acre-foot portion of Chatfield's storage space currently reserved for flood control can be used (reallocated) for municipal and agricultural water supply. If the Reallocation receives final approval the total amount of storage for uses other than flood control will be about 48,000 acre-feet, including Denver Water's current space. A group of 15 water suppliers have agreed to divide amongst themselves the new storage space that would be made available if the Army Corps of Engineers decides the project is feasible and the environmental and recreational impacts can be mitigated. The Corps is now conducting a study of the impacts of storing additional water in the reservoir. They plan to issue an Environmental Impact Statement (EIS) and Record of Decision (ROD) in February 2009.

- **What is Denver Water's role in the Chatfield Reallocation Project?**

In the mid-1990's Denver Water began seeking solutions to help enhance stream flow in the South Platte River through Denver. Denver Water supports this project because the additional water stored in the reservoir for the users downstream of the Metro Area could be released from the reservoir in ways to benefit the stream flows and fisheries in the South Platte River through Denver.

- **Will Denver Water get any of the water from the Reallocation project?**

Denver Water will not receive water from the reallocated storage space in Chatfield. Denver Water is working to fully utilize its existing storage space in Chatfield and is also pursuing other options for increasing water supplies for the future. Denver Water recognizes the need for new water supplies for the 15 suppliers, many of whom now rely on non-renewable groundwater, and is interested in these suppliers' success in developing renewable water. Denver Water will still maintain its original storage pool of 27,400 acre-feet and will remain involved in the overall operation of Chatfield after the reallocation is completed.

Source: chatfield.html

Also on the Web:

**State of Colorado-Colorado Water Conservation Board**

<http://cwcb.state.co.us/Flood/chatfield.htm>

**State of Colorado-Colorado State Parks**

<http://parks.state.co.us/Parks/Chatfield/>

**US Army Corps of Engineers**

<http://corpslakes.usace.army.mil/visitors/projects.cfm?ld=G603020>

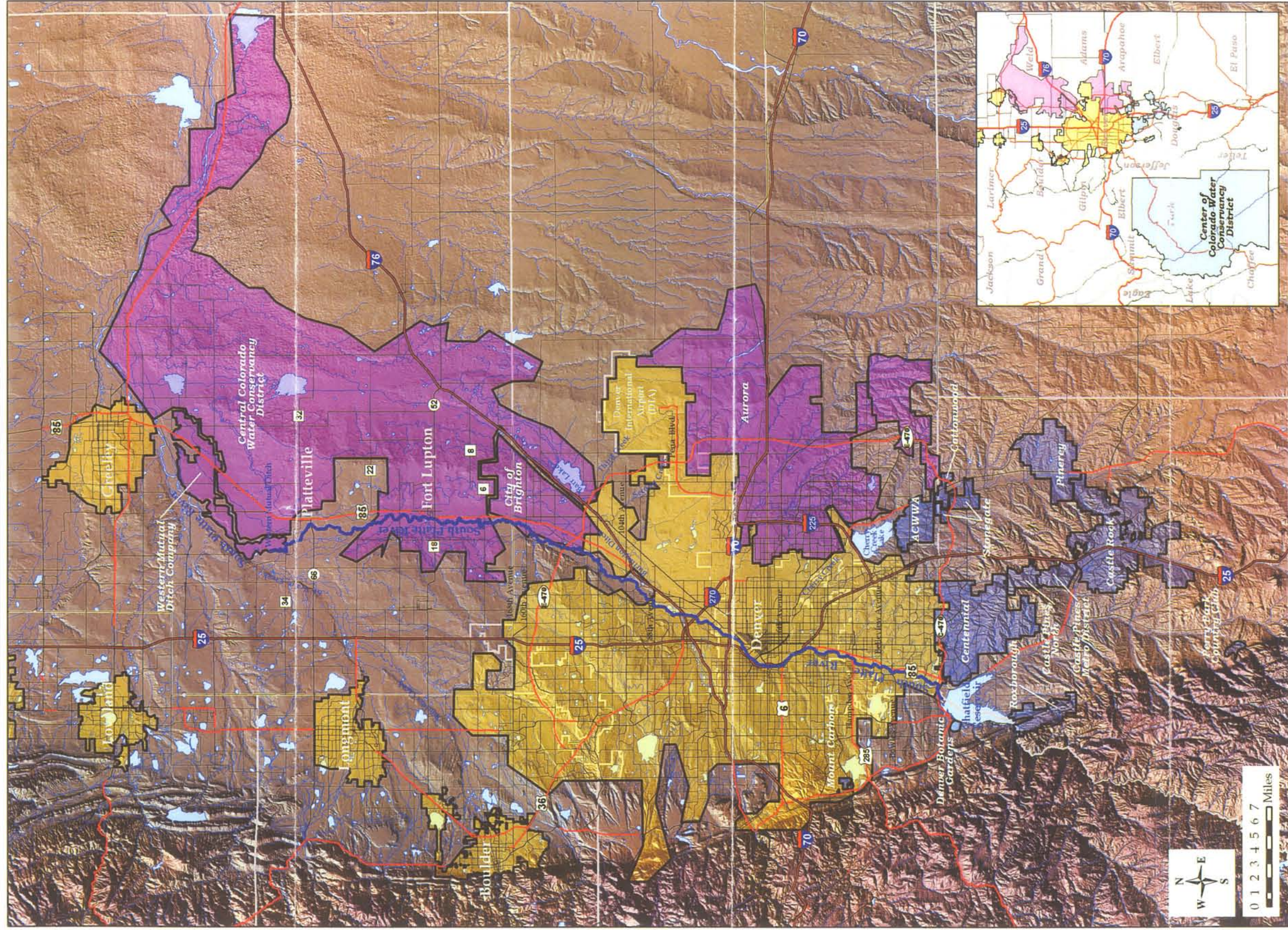
[https://www.nwo.usace.army.mil/html/Lake\\_Proj/TriLakes/TLCLDam.htm](https://www.nwo.usace.army.mil/html/Lake_Proj/TriLakes/TLCLDam.htm)



## **SECTION 4:**

# **CHATFIELD RESERVOIR REALLOCATION PROJECT PARTICIPANTS MAP**





## Legend

- Major City/Populated Area
- Downstream Water User
- Upstream Water User
- Interstate/Freeway
- Major Road
- Local Road
- Lakes
- South Platte River
- Rivers
- Counties

## Entities Requesting Reallocated Storage Space in Chatfield Reservoir

- | Upstream Water Users  | Downstream Water Users   |
|---|--|
| <ul style="list-style-type: none"> <li>South Metro Water Supply Authority</li> <li>Centennial Water and Sanitation District</li> <li>Town of Castle Rock</li> <li>Roxborough Water and Sanitation District</li> <li>Castle Pines Metropolitan District</li> <li>Castle Pines North Metropolitan District</li> <li>Perry Park Country Club</li> <li>Center of Colorado Water Conservancy District</li> <li>Mount Carbon Metropolitan District</li> </ul> | <ul style="list-style-type: none"> <li>City of Aurora</li> <li>City of Brighton</li> <li>Central Colorado Water Conservancy District</li> <li>Western Mutual Ditch Company</li> <li>Colorado State Parks</li> <li>Denver Botanic Gardens at Chatfield</li> </ul> |

## Chatfield Reservoir Reallocation Project Participants



THE GREENWAY FOUNDATION  
Preserving Nature's Diversity Urban Watersheds Since 1974

**CIR TERRA** LLC  
geographic data solutions

August 4, 2008



## **SECTION 5:**

# **FEDERAL AND STATE ACTIONS**

**John Paul Woodley, Assistant Secretary of the Army (Civil Works) memorandum re. granting of policy exception for calculating updated cost of storage for reallocation projects – January 22, 2009**

**John Bertino, Chief of Engineering Division, USACE Omaha letter to Tom Browning, Chief, Water Protection & Flood Mitigation Section, CWCB re. granting of waiver for placement of recreational structures – January 29, 2009**

**Public Law 111-8: Omnibus Appropriations Act, 2009 – March 11, 2009**

**Colorado House Bill 08-1346: Chatfield Authorization and Appropriation**

**Public Law 110-114: Water Resources Development Act of 2007 – November 8, 2007**

**USACE February 16, 2006 Memorandum: Request for a Waiver of Antecedent Flood Criteria – Chatfield Dam and Lake, Denver, Colorado**

**House Committee on Transportation and Infrastructure June 22, 2000 Letter and Committee Resolutions**

**Senate Committee on Public Works July 29, 1971 Resolution**

**Senate Committee on Public Works March 22, 1971 Resolution**



DEPARTMENT OF THE ARMY  
OFFICE OF THE ASSISTANT SECRETARY  
CIVIL WORKS  
108 ARMY PENTAGON  
WASHINGTON DC 20310-0108

JAN 22 2009

**MEMORANDUM FOR Deputy Commanding General for Civil and Emergency Operations**

**SUBJECT: Reallocation of Storage at Chatfield Reservoir, Colorado, for Water Supply – Policy Exception**

This is in response to a December 8, 2008, Northwestern Division Regional Integration Team (CECW-NWD) memorandum requesting that I grant an exception to Corps policy of calculating the updated cost of storage (UCS) for reallocation projects. The exception would grant a one-time waiver for the Chatfield Reservoir reallocation project, in order for the UCS to more equitably reflect the reliability of inflows and yield.

The Chatfield Lake Reservoir project is part of the South Platte River Basin in Colorado. Section 808 of the Water Resources Development Act (WRDA) of 1986 authorized the Secretary, in coordination with the Colorado Department of Natural Resources to reassign a portion of the storage space in Chatfield Lake to municipal and industrial water supply, if the Chief of Engineers finds the project to be feasible and economically justified. The Chatfield reallocation project consists of raising the pool from 5,432 to 5,444 feet National Geodetic Vertical Datum to create up to an additional 20,600 acre-feet (A/F) of water supply storage. The estimated project cost associated with increased storage is \$123,000,000, which is a 100 percent non-Federal responsibility in accordance with the Water Supply Act of 1958 and Section 103 of the Water resources Development Act of 1986. The sponsor for the study is the State of Colorado and the Department of Natural Resources, Colorado Water Conservation Board (CWCB) with support from 15 local water providers with current water rights.

I understand that the reallocation study is currently underway and is expected to be completed in September of 2009. Should reallocation prove feasible, the Corps would enter into a single water supply agreement with the CWCB for repayment of storage and operations, maintenance, repair, replacement and rehabilitation, and the State would enter into separate agreements with the water users. The CWCB would also be responsible for all relocation costs associated with the pool raise.

The Corps' memorandum forwarded background information, an options paper and recommendations by the Omaha District and Northwestern Division Commanders. The intent of the policy exception was to provide a method for calculating UCS at Chatfield based on reliability considerations to reflect low yield





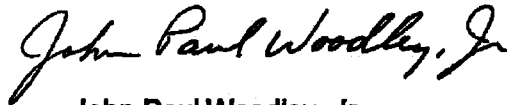
and reliability of storage space. The overall project costs for the Chatfield reallocation are unusually high because of the impacts associated with (1) inundation of riparian habitat, (2) modifying existing recreation facilities, and (3) the UCS. The cost of reallocation is comprised of three components: \$44,000,000 for modification of recreational facilities, \$45,000,000 for environmental mitigation and the remaining \$34,000,000 project cost represents the UCS. However, at Chatfield Lake the reliability of water, as measured by dependable yield is very low.

Given the combination of low rainfall and runoff, along with demands from existing water rights holders on the conservation pool, inflows that can be captured and stored in Chatfield Lake make up an average of about 41 percent of the newly allocated storage space and include a percentage of natural inflows along with man-made inflows from treated effluent. The low yield has the effect of driving up the cost of water supply storage when Chatfield is compared with other Corps reservoirs. When dependable yield is factored into the cost per A/F of storage, an inventory of other Corps reservoirs shows a range from a low \$50 per A/F to a high \$3,300 per A/F and an average of \$530 per A/F. Using the same method, the cost per A/F as measured by dependable yield is \$14,300 at Chatfield, which is 4 times higher than the next highest Corps reallocation cost.

The Corps' supporting documentation proposed an adjusted cost of storage based on measured flows into the reservoir over a period of 59 years. The recommended alternative used an observation of combined natural and man-made flows into Chatfield from 1949 through 2000 to calculate the average annual use of storage. This average figure was estimated to be 8,539 A/F of the total 20,600 A/F available in the reallocated storage area, which represents 41 percent of the total available storage space. The Corps, therefore, recommended adjusting the UCS to 41 percent of the current cost, which is an adjustment from \$34,000,000 to \$14,000,000. This figure also reflects an adjustment of \$14,300 per A/F to \$680 per A/F, which is more in line with the average cost of other Corps reallocations.

My staff has reviewed the memorandum, background information, options paper and recommendations by the Omaha District and Northwestern Division Commanders and the assessment by Corps Headquarters. In accordance with their recommendations, I find the analysis to be presented clearly and reasonably, and that it represents a proposed valuation method that more accurately reflects uncertainty of the water storage yield at Chatfield Lake when placing a value on the UCS. The requested policy exception is approved because of the special conditions at Chatfield Reservoir. The exception will provide a more equitable rate for the UCS, bringing the UCS in line with other Corps reservoirs.

If there are any questions, you may contact my staff members,  
Ms. Marianne Matheny-Katz, at (202) 761-0027 or Mr. Chip Smith, at  
(703) 693-3655).

A handwritten signature in cursive script that reads "John Paul Woodley, Jr.".

John Paul Woodley, Jr.  
Assistant Secretary of the Army  
(Civil Works)





DEPARTMENT OF THE ARMY  
CORPS OF ENGINEERS, OMAHA DISTRICT  
1616 CAPITOL STREET  
OMAHA NE 68102-9000

January 29, 2009

Hydrologic Engineering Branch

Mr. Thomas Browning, Chief  
Watershed Protection & Flood Mitigation Section  
Colorado Water Conservation Board  
1313 Sherman Street, Room 721  
Denver, Colorado 80203

Dear Mr. Browning:

This letter is in response to your request of January 8, 2009, for the Omaha District to consider a waiver to Northwestern Division Regulation 1110-2-5; Land Development Guidance at Corps Reservoir Projects (NWDR 1110-2-5), for the location of recreational structures at Chatfield Reservoir. Your request included background information for the waiver being sought, a completed "Evaluation Criteria for Land Development Proposals", a structural analysis conducted by CH2M Hill, and a "Chatfield Reservoir Recreations Facilities Plan".

As had been previously discussed between Mr. Eric Laux and Mr. Randall Behm of the Omaha District and yourself, the Chatfield Reservoir 20,600 acre foot reallocation currently being studied would change the current pool designations within the reservoir. Currently, Zone 1 is identified as a pool elevation of 5,444.5 feet mean sea level (ft msl) and lower. Under the proposed reallocation plan Zone 1 will be identified as pool elevation 5,453.7 ft msl and lower. Due to the proposed reallocation of the reservoir, the operation of Zone 1 will be increased by 9.2 feet. Under this modification numerous existing recreational structures will be continuously inundated and become unusable. In accordance with NWDR 1110-2-5, structures are not allowed within Zone 1. This requirement is to eliminate structural damages to the recreation structures as well as the Corps of Engineers facilities attributable to flooding, debris and wind-wave forces. A review of existing structures within Chatfield Reservoir indicated that none of the structures could sustain the effects of complete inundation.

Several discussions with Omaha District personnel focused on elevating recreation structures above elevation 5,453.7 ft msl. In those discussions, it became apparent that to make facilities such as the Bath House Complex at the swim beach user friendly, extremely large amounts of fill material and grading would be required. In lieu of making significant changes to the existing terrain to accommodate the recreation facilities you were requested to provide a structural assessment for the conceptual design of structures which could undergo periods of inundation without resulting in significant damage to the structure. A review of the results of the structural assessment indicates that by modifying the general building specifications new recreation structures could be designed and placed within an elevation range of 5,447.0 ft msl to 5,453.7 ft msl to undergo periodic inundation without sustaining significant damage.

As previously discussed and noted in your request, acceptance of the structural assessment by the Omaha District does not set a precedent for locating additional structures within Zone 1 of this reservoir beyond those currently being addressed without further review. In addition, acceptance of the structural assessment does not indicate the approval of the placement of similar type structures within Zone 1 of other reservoirs within the regulatory jurisdiction of the Omaha District.

In response to your request for a waiver regarding the placement of recreational structures within the upper range of the reallocated Zone 1 of Chatfield Reservoir, elevation 5,447.0 ft msl to 5,453.7 ft msl, the waiver is granted with the following conditions:

- All structural requirements of the Technical Memorandum, Chatfield Structural Analysis, dated December 2008 are implemented.
- In accordance with NWDR 1110-2-5, an evacuation plan is developed for all recreational activities associated with the proposed structures.
- The proposed structures meet the definition of being closed floodable, wet flood-proofed as specified in NWDR 1110-2-5
- This waiver is applicable to only structures identified as requiring relocation as part of the Chatfield Reallocation Study. Any additional structures will require a separate review.
- Upon completion of construction, the CWCB shall submit a letter, signed by a Professional Engineer, to the Omaha District, Chief, Engineering Division, certifying that all structures associated with this waiver were constructed to the specifications contained within Technical Memorandum, Chatfield Structural Analysis, dated December 2008.

If you have additional concerns or comments regarding this response or our enforcement of NWDR 1110-2-5, please contact Mr. Randall Behm of my staff at (402) 995-2322 or myself anytime at (402) 995- 2093.

Sincerely,

**SIGNED**

John J. Bertino Jr., P. E.  
Chief, Engineering Division



Copies Furnished:

CENWO-OD-TL (F. Rios)  
CENWO-PM-AE (Laux)

BEHM/orw/2322 *RLB*

LAUX/CENWO-PM-*RLB*

*BRANDON/CENWO-PM-AE*  
ECKERT-UPTMOR/CENWO-PM-*RLB*

REMUS/CENWO-ED-*RLB*

SCHENK/CENWO-OD *RLB*

BERTINO/CENWO-ED



PUBLIC LAW 111-8—MAR. 11, 2009

## OMNIBUS APPROPRIATIONS ACT, 2009

:



1944, Public Law 78-534, is modified to direct the Secretary, acting through the Chief of Engineers, to take such action as is necessary to correct deficiencies in the L-385 levee system in Riverside, Missouri at full Federal expense at a cost of no more than \$7,000,000.

121 Stat. 1945. SEC. 112. Section 115 of the Energy and Water Development and Related Agencies Appropriations Act, 2008 as contained in division C of Public Law 110-161, is amended by striking “\$20,000,000. The Secretary shall transfer this facility to the Secretary of the Interior for operation and maintenance upon the completion of construction.” and inserting in lieu thereof, “\$20,000,000: *Provided*, That the Secretary shall transfer ownership of this facility to the Secretary of Health and Human Services for operation and maintenance upon the completion of construction.”.

SEC. 113. Section 103(c)(7) of the Water Resources Development Act of 1992 (106 Stat. 4811-12), as amended by section 117 of the Energy and Water Development Appropriations Act of 2006 (119 Stat. 2255), is further amended by striking “15,000,000” and inserting “26,000,000”.

SEC. 114. Section 3118 of Public Law 110-114 (121 Stat. 1137) is amended by—

(1) in paragraph (b) by inserting after “New Mexico” the following: “in accordance with the plans recommended in the feasibility report for the Middle Rio Grande Bosque, New Mexico, scheduled for completion in December 2008”;

(2) redesignating subsection (d) as subsection (e); and

(3) inserting a new subsection (d):

“(d) COST SHARING.—Any requirement for non-Federal participation in a project carried out in the bosque of Bernalillo County, New Mexico, pursuant to this section shall be limited to the provision of lands, easements, rights-of-way, relocations, and dredged material disposal areas necessary for construction, operation and maintenance of the project.”.

SEC. 115. The non-Federal interest for the project referenced in section 3154 of the Water Resources Development Act of 2007 (Public Law 110-114; 121 Stat. 1148) may carry out design and construction work on the project in advance of Federal appropriations or may provide funds directly to the Secretary for the Secretary to carry out such work: *Provided*, That the Secretary of the Army shall reimburse the non-Federal interest for any costs incurred by the non-Federal interest that are in excess of the non-Federal share of total project costs subject to the availability of appropriations.

Colorado. SEC. 116. The Colorado Department of Natural Resources is authorized to perform modifications of the facility (Chatfield Reservoir, Colorado), and any required mitigation which results from implementation of the project: *Provided*, That in carrying out the reassignment of storage space provided for in this section, the Secretary shall collaborate with the Colorado Department of Natural Resources and local interests to determine costs to be repaid for storage that reflects the limited reliability of the resources and the capability of non-Federal interests to make use of the reallocated storage space in Chatfield Reservoir, Colorado.

118 Stat. 2944. SEC. 117. Section 117 of the Energy and Water Development and Related Agencies Appropriations Act, 2005, as contained in division C of Public Law 108-447, is hereby repealed.

# An Act

---

HOUSE BILL 08-1346

BY REPRESENTATIVE(S) Curry, Borodkin, Fischer, Gardner C., Green, Hodge, Looper, Massey, McFadyen, Roberts, Rose, Solano, Sonnenberg, Stafford, White, King, and Scanlan;  
also SENATOR(S) Isgar, Brophy, Gibbs, Kester, Kopp, Mitchell S., Penry, Schwartz, Shaffer, Tapia, Taylor, Tochtrop, Ward, and Wiens.

CONCERNING THE FUNDING OF COLORADO WATER CONSERVATION BOARD PROJECTS, AND MAKING APPROPRIATIONS IN CONNECTION THEREWITH.

*Be it enacted by the General Assembly of the State of Colorado:*

**SECTION 1. Water project loan authorizations from the Colorado water conservation board construction fund.** (1) Pursuant to section 37-60-122 (1) (b), Colorado Revised Statutes, the Colorado water conservation board is hereby authorized to loan moneys from the Colorado water conservation board construction fund to enable the construction of the following water resources projects or the purchase of water rights with the following priority:

<b>Priority</b>	<b>Borrower - Project</b>	<b>Loan Amount</b>
-----------------	---------------------------	--------------------

*Capital letters indicate new material added to existing statutes; dashes through words indicate deletions from existing statutes and such material not part of act.*



resources, for allocation to the Colorado water conservation board, for the fiscal year beginning July 1, 2008, the sum of sixty-seven thousand dollars (\$67,000), or so much thereof as may be necessary, for the board to participate with the United States geological survey to present the 2005 Colorado water-use data compiled for the national water use information program of the United States geological survey in a published report specifically for Colorado. The board will develop in cooperation with the geological survey a detailed project scope of work to ensure that the published data is in a useful format that can be used in the Colorado decision support system and other Colorado water conservation board activities.

(2) The moneys appropriated in subsection (1) of this section shall remain available for the designated purposes until the project is completed.

**SECTION 24.** Subsection (1) of section 15 of chapter 224, Session Laws of Colorado 2005, is amended to read:

**Section 15. Oak creek flood control mitigation feasibility study - appropriation.** (1) In addition to any other appropriation, there is hereby appropriated, out of any moneys in the Colorado water conservation board construction fund not otherwise appropriated, to the Colorado water conservation board, for the fiscal year beginning July 1, 2005, the sum of one hundred sixty-seven thousand dollars (\$167,000), or so much thereof as may be necessary, for the board to participate with the city of Florence, Colorado, in the Oak creek ~~reservoir~~ FLOOD CONTROL MITIGATION feasibility study to be prepared by the United States Army corps of engineers. ~~Other participating entities include the town of Coal Creek, the town of Rockvale, and the town of Williamsburg.~~

**SECTION 25.** Article 60 of title 37, Colorado Revised Statutes, is amended BY THE ADDITION OF A NEW SECTION to read:

**37-60-120.1. Chatfield reservoir reallocation project - authority - repeal.** (1) IN ORDER TO PROMOTE THE GENERAL WELFARE AND SAFETY OF THE CITIZENS OF THIS STATE AND UTILIZE REALLOCATED STORAGE SPACE AVAILABLE IN THE FEDERAL FLOOD CONTROL PROJECT KNOWN AS CHATFIELD RESERVOIR, THE BOARD HAS UNDERTAKEN THE CHATFIELD RESERVOIR REALLOCATION PROJECT, REFERRED TO IN THIS SECTION AS THE "PROJECT", IN COORDINATION AND COOPERATION WITH A LOCAL COALITION

AND WITH PARTICIPANTS WHO HAVE EXECUTED LETTERS OF COMMITMENT WITH THE BOARD. THE IMPLEMENTATION OF THE PROJECT WILL RESULT IN BENEFITS TO SOUTH PLATTE RIVER WATER USERS AND THE DOWNSTREAM ENVIRONMENT WITHOUT ADVERSELY IMPACTING OTHER RIVER BASINS. THE IMPLEMENTATION OF THE PROJECT WILL REQUIRE THE BOARD TO CONTRACT WITH THE UNITED STATES ARMY CORPS OF ENGINEERS, REFERRED TO IN THIS SECTION AS THE "CORPS", TO HOLD AND ALLOCATE STORAGE SPACE IN THE RESERVOIR AND TO UNDERTAKE SUBSTANTIAL ACTIVITIES RELATED TO THE MITIGATION OF ENVIRONMENTAL AND RECREATION IMPACTS CAUSED BY THE INCREASE IN RESERVOIR WATER LEVELS.

(2) THE BOARD IS HEREBY AUTHORIZED TO ACT AS AN AGENT OF THE PROJECT PARTIES TO IMPLEMENT THIS SECTION. THROUGH AN AGENCY FUND THE BOARD MAY COLLECT AND DISBURSE MONEY FROM ANY ENTITY TO IMPLEMENT THE PROJECT AND TO MEET THE OBLIGATIONS CONTAINED IN AN INTERGOVERNMENTAL AGREEMENT, PROJECT PARTNERSHIP AGREEMENT, OR OTHER CONTRACT, REFERRED TO IN THIS SECTION AS AN "AGREEMENT", WITH THE CORPS OR OTHER ENTITY THAT IS REQUIRED TO IMPLEMENT THE PROJECT. NOTWITHSTANDING ANY OTHER LAW, INCLUDING SECTION 24-30-1303, C.R.S., THE BOARD AND THE DEPARTMENT OF NATURAL RESOURCES ACTING THROUGH ITS AGENCIES SHALL HAVE THE AUTHORITY TO ENTER INTO ANY AGREEMENT WITH THE CORPS OR OTHER ENTITIES, INCLUDING CONSULTANTS AND CONTRACTORS, THAT IN THE BOARD'S DISCRETION IS NECESSARY TO IMPLEMENT THE PROJECT; HOWEVER, SUFFICIENT FUNDS SHALL HAVE BEEN MADE AVAILABLE TO THE BOARD FOR SUCH PURPOSES. THE AUTHORITY GRANTED BY THIS SUBSECTION (2) INCLUDES: THE ABILITY TO HOLD STORAGE SPACE IN THE RESERVOIR; TO CONTRACT WITH, AND ALLOCATE STORAGE TO, LOCAL ENTITIES WHO WILL UTILIZE THE RESERVOIR STORAGE SPACE; TO UNDERTAKE MITIGATION AND LONG-TERM OPERATION AND MAINTENANCE OF THE PROJECT; TO PAY THE COSTS OF STORAGE OR OTHER NECESSARY EXPENSES; AND TO OTHERWISE IMPLEMENT THE PROJECT. THE BOARD HAS THE EXPRESS AUTHORITY, IN EQUITABLE PARTNERSHIP WITH THE PARTICIPANTS, TO UNDERTAKE SUCH ACTION AS IS NECESSARY, INCLUDING THE AWARD OF CONTRACTS TO PUBLIC AND PRIVATE ENTITIES, TO UNDERTAKE MITIGATION CONSTRUCTION AND LONG-TERM OPERATION AND MAINTENANCE AND RELATED ACTIVITIES; TO LEASE, SUBLEASE, OR ASSIGN STORAGE SPACE RIGHTS; AND TO OTHERWISE EFFECTUATE THE STORAGE OF WATER IN THE RESERVOIR. IN THE EVENT OF A CONFLICT BETWEEN THE APPLICATION OF STATE OR FEDERAL LAW OR RULES, INCLUDING CHAPTER 3 OF THE STATE FISCAL RULES IN EXISTENCE AS



OF THE EFFECTIVE DATE OF THIS SECTION, FEDERAL LAWS AND RULES SHALL APPLY.

(3) THIS SECTION IS REPEALED, EFFECTIVE AT THE END OF THE PROJECT. SUCH REPEAL SHALL NOT AFFECT THE VALIDITY OF ANY ACTION TAKEN PURSUANT TO THIS SECTION. THE DIRECTOR OF THE BOARD SHALL, IN WRITING, PROMPTLY NOTIFY THE STATE TREASURER AND THE REVISOR OF STATUTES WHEN THE PROJECT IS COMPLETED.


**SECTION 26. Chatfield reservoir reallocation project - appropriation.** (1) In addition to any other appropriation, there is hereby appropriated, out of any moneys in the Colorado water conservation board construction fund not otherwise appropriated, to the department of natural resources, for allocation to the board, for the fiscal year beginning July 1, 2008, the sum of two million dollars (\$2,000,000), or so much thereof as may be necessary, to implement the project. The moneys appropriated in this section shall remain available for the designated purposes until the project is completed.

(2) Any remaining balance from the moneys appropriated in this section shall revert to the Colorado water conservation board construction fund at the end of the project.

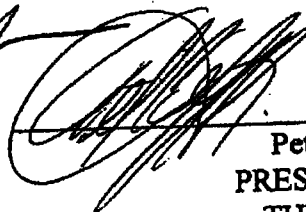
**SECTION 27.** The introductory portion to 37-92-102 (3), Colorado Revised Statutes, is amended to read:

**37-92-102. Legislative declaration - basic tenets of Colorado water law.** (3) Further recognizing the need to correlate the activities of mankind with some reasonable preservation of the natural environment, the Colorado water conservation board is hereby vested with the exclusive authority, on behalf of the people of the state of Colorado, to appropriate in a manner consistent with sections 5 and 6 of article XVI of the state constitution, such waters of natural streams and lakes as the board determines may be required for minimum stream flows or for natural surface water levels or volumes for natural lakes to preserve the natural environment to a reasonable degree. In the adjudication of water rights pursuant to this article and other applicable law, no other person or entity shall be granted a decree adjudicating a right to water or interests in water for instream flows in a stream channel between specific points, or for natural surface water levels or volumes for natural lakes, for any purpose

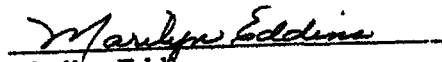
determines, and declares that this act is necessary for the immediate preservation of the public peace, health, and safety.




Andrew Romanoff  
SPEAKER OF THE HOUSE  
OF REPRESENTATIVES



Peter C. Groff  
PRESIDENT OF  
THE SENATE



Marilyn Eddins  
CHIEF CLERK OF THE HOUSE  
OF REPRESENTATIVES



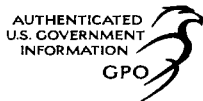
Karen Goldman  
SECRETARY OF  
THE SENATE

APPROVED May 29th, 2008 at 11:37 AM



Bill Ritter, Jr.  
GOVERNOR OF THE STATE OF COLORADO





PUBLIC LAW 110–114—NOV. 8, 2007

121 STAT. 1041

Public Law 110–114  
110th Congress

An Act

To provide for the conservation and development of water and related resources, to authorize the Secretary of the Army to construct various projects for improvements to rivers and harbors of the United States, and for other purposes.

Nov. 8, 2007  
[H.R. 1495]

*Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled,*

SECTION 1. SHORT TITLE; TABLE OF CONTENTS.

(a) SHORT TITLE.—This Act may be cited as the “Water Resources Development Act of 2007”.

(b) TABLE OF CONTENTS.—The table of contents for this Act is as follows:

Water Resources  
Development Act  
of 2007.  
Inter-  
governmental  
relations.  
33 USC 2201  
note.

- Sec. 1. Short title; table of contents.  
Sec. 2. Definition of Secretary.

TITLE I—WATER RESOURCES PROJECTS

- Sec. 1001. Project authorizations.  
Sec. 1002. Small projects for flood damage reduction.  
Sec. 1003. Small projects for emergency streambank protection.  
Sec. 1004. Small projects for navigation.  
Sec. 1005. Small projects for improvement of the quality of the environment.  
Sec. 1006. Small projects for aquatic ecosystem restoration.  
Sec. 1007. Small projects for shoreline protection.  
Sec. 1008. Small projects for snagging and sediment removal.  
Sec. 1009. Small projects to prevent or mitigate damage caused by navigation projects.  
Sec. 1010. Small projects for aquatic plant control.

TITLE II—GENERAL PROVISIONS

- Sec. 2001. Non-Federal contributions.  
Sec. 2002. Funding to process permits.  
Sec. 2003. Written agreement for water resources projects.  
Sec. 2004. Compilation of laws.  
Sec. 2005. Dredged material disposal.  
Sec. 2006. Remote and subsistence harbors.  
Sec. 2007. Use of other Federal funds.  
Sec. 2008. Revision of project partnership agreement; cost sharing.  
Sec. 2009. Expedited actions for emergency flood damage reduction.  
Sec. 2010. Watershed and river basin assessments.  
Sec. 2011. Tribal partnership program.  
Sec. 2012. Wildfire firefighting.  
Sec. 2013. Technical assistance.  
Sec. 2014. Lakes program.  
Sec. 2015. Cooperative agreements.  
Sec. 2016. Training funds.  
Sec. 2017. Access to water resource data.  
Sec. 2018. Shore protection projects.  
Sec. 2019. Ability to pay.  
Sec. 2020. Aquatic ecosystem and estuary restoration.  
Sec. 2021. Small flood damage reduction projects.  
Sec. 2022. Small river and harbor improvement projects.  
Sec. 2023. Protection of highways, bridge approaches, public works, and nonprofit public services.

5b), toward the non-Federal share of the cost of the project the cost of work carried out by the non-Federal interest for the project before the date of the partnership agreement for the project and to authorize the Secretary to consider national ecosystem restoration benefits in determining the Federal interest in the project.

**SEC. 3041. YUBA RIVER BASIN PROJECT, CALIFORNIA.**

The project for flood damage reduction, Yuba River Basin, California, authorized by section 101(a)(10) of the Water Resources Development Act of 1999 (113 Stat. 275), is modified—

(1) to authorize the Secretary to construct the project at a total cost of \$107,700,000, with an estimated Federal cost of \$70,000,000 and an estimated non-Federal cost of \$37,700,000; and

(2) to direct the Secretary to credit, in accordance with section 221 of the Flood Control Act of 1970 (42 U.S.C. 1962d-5b), toward the non-Federal share of the cost of the project the cost of work carried out by the non-Federal interest for the project before the date of the partnership agreement for the project.

**SEC. 3042. SOUTH PLATTE RIVER BASIN, COLORADO.**

Section 808 of the Water Resources Development Act of 1986 (100 Stat. 4168) is amended by striking “agriculture,” and inserting “agriculture, environmental restoration,”.

**SEC. 3043. INTRACOASTAL WATERWAY, DELAWARE RIVER TO CHESAPEAKE BAY, DELAWARE AND MARYLAND.**

The project for navigation, Intracoastal Waterway, Delaware River to Chesapeake Bay, Delaware and Maryland, authorized by the first section of the Rivers and Harbors Act of August 30, 1935 (49 Stat. 1030), and section 101 of the River and Harbor Act of 1954 (68 Stat. 1249), is modified to add recreation as a project purpose.

**SEC. 3044. ST. GEORGE'S BRIDGE, DELAWARE.**

Deadline.

Section 102(g) of the Water Resources Development Act of 1990 (104 Stat. 4612) is amended by adding at the end the following: “The Secretary shall assume ownership responsibility for the replacement bridge not later than the date on which the construction of the bridge is completed and the contractors are released of their responsibility by the State. In addition, the Secretary may not carry out any action to close or remove the St. George's Bridge, Delaware, without specific congressional authorization.”.

**SEC. 3045. BREVARD COUNTY, FLORIDA.**

Reports.

(a) **SHORELINE.**—The project for shoreline protection, Brevard County, Florida, authorized by section 101(b)(7) of the Water Resources Development Act of 1996 (110 Stat. 3667), is modified to authorize the Secretary to include the mid-reach as an element of the project from the Florida department of environmental protection monuments 75.4 to 118.3, a distance of approximately 7.6 miles. The restoration work shall only be undertaken upon a determination by the Secretary, following completion of the general reevaluation report authorized by section 418 of the Water Resources Development Act of 2000 (114 Stat. 2637), that the shoreline protection is feasible.





**DEPARTMENT OF THE ARMY**  
**U.S. ARMY CORPS OF ENGINEERS**  
WASHINGTON, D.C. 20314-1000

REPLY TO  
ATTENTION OF:

CECW-NWD


FEB 16 2006

MEMORANDUM FOR Commander, Northwestern Division (CENWD-RBT)

SUBJECT: Request for a Waiver of Antecedent Flood Criteria – Chatfield Dam and Lake, Denver, Colorado

1. Reference the CENWO-ED-H memorandum dated 2 December 2005, subject as above, enclosed in the CENWD-RBT undated memo, same subject.
2. Based on our review of the "Chatfield Antecedent Flood Study, December 2005" and information contained in the referenced memo, the requested waiver of the minimum antecedent flood criteria as presented in ER 1110-8-2 is granted.

FOR THE COMMANDER:



EDWARD J. HECKER  
Chief, Northwestern Division  
Regional Integration Team  
Directorate of Civil Works



Committee on Transportation and Infrastructure

Congress of the United States

House of Representatives

Washington, DC 20515

Bud Shuster  
Chairman

James L. Oberstar  
Ranking Democratic Member

Jack Schenendorf, Chief of Staff  
Michael Strachn, Deputy Chief of Staff

June 22, 2000

David Heymsfeld, Democratic Chief of Staff

Honorable Diana DeGette  
U.S. House of Representatives  
1339 Longworth House Office Building  
Washington, D.C. 20515

Dear Diana:

Enclosed are copies of three resolutions adopted on June 21, 2000, by the Committee on Transportation and Infrastructure for the South Platte River. Copies of the resolutions are being transmitted to the Department of the Army.

I am pleased to have been of assistance to you in this matter.

With kind personal regards, I am

Sincerely,

*Bud*  
BUD SHUSTER  
CHAIRMAN

EGS:dc

Enclosures



Committee on Transportation and Infrastructure

Congress of the United States

House of Representatives

Washington, DC 20515

**Bud Shuster**  
Chairman

**James L. Oberstar**  
Ranking Democratic Member

Jack Schenendorf, Chief of Staff  
Michael Strachn, Deputy Chief of Staff

David Heymafeld, Democratic Chief of Staff

COMMITTEE ON TRANSPORTATION AND INFRASTRUCTURE  
U.S. HOUSE OF REPRESENTATIVES  
WASHINGTON, D.C.

RESOLUTION

Docket 2640

Adams County, Colorado

Resolved by the Committee on Transportation and Infrastructure of the United States House of Representatives, That the Secretary of the Army is requested to review the report of the Chief of Engineers on the South Platte River and Tributaries, Colorado, Wyoming, and Nebraska, publishes as House Document 669, 80<sup>th</sup> Congress, and other pertinent reports, in coordination with the County of Adams, and other interested Federal, State and local agencies, to determine whether any modifications of the recommendations contained therein are advisable at this time, with particular reference to the desirability of developing a comprehensive watershed plan for the utilization and conservation of water and related land resources of the South Platte River Basin within the County of Adams, Colorado, in the interest of flood control, regional water supply and waste management, water quality improvements, recreation, fish and wildlife restoration and preservation, wise use of floodplain lands, and other associated environmental enhancements and protections.

Adopted: June 21, 2000

ATTEST:

  
BUD SHUSTER  
CHAIRMAN





Committee on Transportation and Infrastructure

Congress of the United States

House of Representatives

Washington, DC 20515

**Bud Shuster**  
Chairman

**James L. Oberstar**  
Ranking Democratic Member

Jack Schenendorf, Chief of Staff  
Michael Strachan, Deputy Chief of Staff

David Heymsfeld, Democratic Chief of Staff

COMMITTEE ON TRANSPORTATION AND INFRASTRUCTURE  
U.S. HOUSE OF REPRESENTATIVES  
WASHINGTON, D.C.

RESOLUTION

Docket 2639

Arapahoe County, Colorado

Resolved by the Committee on Transportation and Infrastructure of the United States House of Representatives, That the Secretary of the Army is requested to review the report of the Chief of Engineers on the South Platte River and Tributaries, Colorado, Wyoming, and Nebraska, publishes as House Document 669, 80<sup>th</sup> Congress, and other pertinent reports, in coordination with the County of Arapahoe, and other interested Federal, State and local agencies, to determine whether any modifications of the recommendations contained therein are advisable at this time, with particular reference to the desirability of developing a comprehensive watershed plan for the utilization and conservation of water and related land resources of the South Platte River Basin within the County of Arapahoe, Colorado, in the interest of flood control, regional water supply and waste management, water quality improvements, recreation, fish and wildlife restoration and preservation, wise use of floodplain lands, and other associated environmental enhancements and protections,

Adopted: June 21, 2000

ATTEST:

  
BUD SHUSTER  
CHAIRMAN



Committee on Transportation and Infrastructure

Congress of the United States

House of Representatives

Washington, DC 20515

Bud Shuster  
Chairman

Jack Schenendorf, Chief of Staff  
Michael Strachn, Deputy Chief of Staff

James L. Oberstar  
Ranking Democratic Member

David Heymsfeld, Democratic Chief of Staff

COMMITTEE ON TRANSPORTATION AND INFRASTRUCTURE  
U.S. HOUSE OF REPRESENTATIVES  
WASHINGTON, D.C.

RESOLUTION

Docket 2638

Denver County Reach, Colorado

Resolved by the Committee on Transportation and Infrastructure of the United States House of Representatives, That the Secretary of the Army is requested to review the report of the Chief of Engineers on the South Platte River and Tributaries, Colorado, Wyoming, and Nebraska, published as House Document 669, 80<sup>th</sup> Congress, and other pertinent reports, in coordination with the City and County of Denver, and other interested Federal, State and local agencies, to determine whether any modifications of the recommendations contained therein are advisable at this time, with particular reference to the desirability of developing a comprehensive watershed plan for the utilization and conservation of water and related land resources along the Denver County reach of the South Platte River, Denver, Colorado, in the interest of flood control, regional water supply and waste management, water quality improvements, recreation, fish and wildlife restoration and preservation, wise use of floodplain lands, and other associated environmental enhancements and protections.

Adopted: June 21, 2000

ATTEST

  
BUD SHUSTER  
CHAIRMAN

550 Rayburn House Office Building

<http://www.house.gov/transportation>

C O P Y

COMMITTEE ON PUBLIC WORKS  
U. S. HOUSE OF REPRESENTATIVES  
WASHINGTON, D.C. 20515

R E S O L U T I O N

Resolved by the Committee on Public Works of the House of Representatives, United States, that the Board of Engineers for Rivers and Harbors is hereby requested to review the reports of the Chief of Engineers on the South Platte River and Tributaries, Colorado, Wyoming, and Nebraska, published as House Document Numbered 669, Eightieth Congress, and other pertinent reports, with a view to determining whether any modifications of the recommendations contained therein are advisable at this time, with particular reference to the desirability of developing a comprehensive plan for the utilization and conservation of water and related land resources of the South Platte River Basin, in the interest of flood control, regional water supply and waste management, water quality control, recreation, fish and wildlife conservation, wise use of flood plain lands, and other measures for enhancement and protection of the environment. Investigation to be coordinated with the State of Colorado, local governmental entities, and other interested Federal and State agencies.

Adopted July 29, 1971

Attest: John A. Blatnik

Requested by: Hon. Brotzman and Hon. Aspinall



C O P Y

---92nd Congress

---1st Session

UNITED STATES SENATE  
Committee on Public Works

COMMITTEE RESOLUTION

RESOLVED BY THE COMMITTEE ON PUBLIC WORKS OF THE UNITED STATES SENATE.

That the Board of Engineers for Rivers and Harbors, created under the provisions of Section 3 of the River and Harbor Act approved June 13, 1902, be, and is hereby requested to review the report of the Chief of Engineers on the South Platte River and Tributaries, Colorado, Wyoming, and Nebraska, published as House Document Numbered 669, Eightieth Congress, and other pertinent reports, with a view to determining whether any modifications of the recommendations contained therein are advisable at this time, with particular reference to the desirability of developing a comprehensive plan for the utilization and conservation of water and related land resources of the South Platte River Basin, in the interest of flood control, regional water supply and waste management, water quality control, recreation, fish and wildlife conservation, wise use of flood plain lands, and other measures for enhancement and protection of the environment. Investigation to be coordinated with the State of Colorado, local government entities, and other interested Federal and State agencies.

Adopted: March 22, 1971

JENNINGS RANDOLPH, Chairman

(At the request of Senators Gordon Allott and Peter H. Dominick of the State of Colorado.)

## **SECTION 6:**

# **SUMMARIES OF PARTICIPANTS' WATER CONSERVATION PROGRAMS** (compilation completed December 2009)

## Summaries of Participants' Water Conservation Programs

### City of Aurora

Aurora Water currently has an extensive water conservation program. Aurora Water's water conservation program is a multi-faceted approach including programs in the following areas:

Conservation Education/Outreach, Xeriscape Education and Demonstration Gardens, Demand Management/Water Budgets/Conservation Pricing, Program Evaluation/Research, Legal Remedies/Ordinances, Financial Rebates/Incentives and Peer Agency Collaboration/Outreach.

#### Key Accomplishments in 2008

Rebated our customers to convert almost 350,000 square feet of high water use landscape into water wise, Colorado appropriate, landscaping saving Aurora approximately 3,043,551 gallons/ 9.34 acre feet annually. Rebated 1192 toilets that replaced older inefficient models saving over 35 acre feet annually. Rebated 1816 high efficiency washing machines saving over 63 acre feet annually.

#### Staffing

In 2008, the Aurora Water conservation division employed 11 full-time employees (FTE), 3 contract employees, 1 temporary seasonal water monitor and 3 temporary seasonal interns.

#### Adult Education

Since 2003, Water Conservation staff has facilitated free classes for Aurora Water customers. 2008 was the beginning of a new effort to collaborate with other city departments and local organizations to bring a holistic view of water use.

#### Winter Conservation Classes

From February through April, Water Conservation held 8 indoor classes on a range of subjects.

#### Summer Xeriscape Classes

The bulk of classes and attendance occurs at the summer classes held at the Xeriscape demonstration gardens. Two types of classes are taught; rebate-centric and specific landscape topics.

#### Youth Education

In 2008, Aurora Water hosted the 15th annual Aurora Youth Water Festival at the Community College of Aurora where 1,400 fifth grade students attended and participated in numerous presentations and exhibits on water.

#### Classroom presentations and other events

In 2008, Water Conservation Youth Program carried out 76 school presentations educating 3027 students and providing 50 contact hours for teachers. Also, the Youth Program carried out 5 school assemblies educating 1347 students. Additionally, the youth education program assisted with a Girl Scout Badge day and AQWUA teen camp at the Aurora Reservoir educating 67 students.

#### Forests to Faucets Teacher Training

Aurora Water's Conservation and Clean Water Program staff teamed up to create the Forests to Faucets teacher training. This is a Project WET-based teacher training where 25 teachers were trained in various water resource supply, conservation, and water quality areas. Staff time for the Youth education program is estimated at 2760 hours for the year.

#### Water Management Plan

Since 2002, Aurora Water has created an annual Water Management Plan (WMP) to address drought conditions and demand response. This includes mandatory days of the week watering, hours of allowed irrigation, and enforcement of waste of water.

#### Soil and irrigation system inspections and irrigation plans review



In order to support and enforce the lawn permit and irrigation standards ordinances, Aurora Water employs water conservation field personnel, an irrigation plans examiner and an irrigation system inspector. In 2008, Water Conservation conducted 1024 soil inspections to ensure proper soil amendment was added and tilled, 857 residential and commercial irrigation systems were inspected and 49 sets of commercial, large HOA, and multi-family irrigation system plans were reviewed for water-efficient design.

Staff time spent on soil and irrigation inspections is estimated at 600 hours for soil inspections, 400 hours for residential irrigation inspections and 180 hours for commercial irrigation inspections. Plans review is estimated at 1200 hours.

City of Aurora's CWCB approved water conservation plan can be found at <http://cwcb.state.co.us/conservation/relatedinformation/wcps/>

## **Arapahoe County Water and Wastewater Authority (ACWWA)**

Arapahoe County Water and Wastewater Authority's (ACWWA) Water Conservation Plan was approved by the Colorado Water Conservation Board in 2007. ACWWA's plan focused on the reduction in per tap water use and an overall reduction in demand. ACWWA has implemented a tiered rate structure and billing system designed to encourage efficiency. Both residential and commercial customers are charged according to an increasing block rate structure.

ACWWA also has aggressively implemented a non-potable irrigation program, using raw alluvial water and treated effluent for landscape irrigation. This allows the maximization of ACWWA's water supply through reuse for irrigation purposes. ACWWA currently has the

2nd highest number of individual customers using treated effluent for irrigation under the Colorado Department of Public Health and Environments Regulation 84: Reclaimed Water Control Regulation program in the State of Colorado. ACWWA also operates a State approved augmentation plan which increases the utility of its water supply.

ACWWA currently distributes Water Leak Detection Kits which consist of an instructional card and dye tablets to help customers identify leaky toilets within their homes. ACWWA also conducts an outreach program to HOAs within its service area in an effort to educate the consumers on various ways to save water. During the peak usage months, ACWWA has implemented a Watering Schedule, which assists in maintaining an efficient water management/operations program, including conservation.

In 2010, ACWWA will begin a pilot rebate program for customers who purchase high efficiency clothes washers and sprinkler controls that respond to the weather. ACWWA also has plans to modify their current web page to include increased awareness of water conservation with links to other helpful resources.

ACWWA's CWCB approved water conservation plan can be found at <http://cwcb.state.co.us/conservation/relatedinformation/wcps/>

## **City of Brighton**

On August 11, 2008, the Colorado Water Conservation Board approved the City of Brighton's updated Water Conservation Plan. Although the City of Brighton has had an approved Water Conservation Program in place since 1995, the City recognized the need to develop, implement, and monitor additional measures and programs in order to achieve

additional savings and reduce water use demands.

The water conservation measures and programs are focused on those activities that will occur over the next ten years. Through initial screening efforts the potential programs identified include:

- Water efficient fixtures and appliances
- Low water use landscaping, drought- resistance vegetation, efficient irrigation
- Water efficient industrial and commercial processes
- Water reuse systems
- Distribution system leak identification and repair
- Public education and customer audits
- Water rate structure and billing systems that encourage water efficiency
- Regulatory measures
- Incentives including rebates

Due to limited budgets, annually approximately \$30,000, the City will focus on programs expected to provide the largest results, with some programs implemented and/or retired over time. Central to the City's desire to reduce future water demand is its need to postpone future capital improvement projects to expand both its water and wastewater treatment facilities. The City will need to continuously weigh the cost/benefit of various water conservation measures and programs with the cost to develop, treat and deliver new water supplies.

The estimated water savings that the City's water conservation efforts are expected to yield from 98 acre-feet to 123 acre-feet for a total cumulative savings of 1,051 acre-feet in 10 years. The expected overall cost to implement the plan over the next ten years is \$3.9 million

therefore, the City will be pursuing water efficiency grants with the CWCB Office of Water Conservation and Drought Planning. The City will monitor the progress of its proposed water conservation programs such that the actual water savings are tracked and reported on a regular basis to the City Council and the public.

City of Brighton's CWCB approved water conservation plan can be found at <http://cwcb.state.co.us/conservation/relatedinformation/wcps/>

### **Castle Pines Metropolitan District**

On October 15, 2009, Castle Pines Metropolitan District (CPMD) submitted a Water Conservation Plan to the Colorado Water Conservation Board (CWCB) for review and approval. This Plan complies with the Water Conservation Act of 2004 and follows the Water Conservation Plan Development Guidance Document established by the CWCB. The draft plan was available for public review and comment from July 27, 2009 to September 26, 2009.

The scope of the Water Conservation Plan (Plan) include water conservation goals, cost/benefit analyses for various chosen conservation activities as well as those not chosen for implementation, descriptions of selected activities, and the specific protocol for implementation of chosen activities. The Plan indicates that CPMD will evaluate each conservation activity. Specifically, CPMD has and will evaluate the actual cost/benefit ratios compared to the projected cost/benefit ratios of each conservation activity. Copies of the Plan are available on the website [www.castlepinesmetro.com](http://www.castlepinesmetro.com).

The conservation goal focused on the highest water use categories and is identified in the Plan as 16% reduction in peak day demand. CPMD plans to attain this goal through the following activities:

- 4-tiered block rate structure
- Educational seminars for residents
- Educational seminars for landscape contractors working within CPMD's service area
- Water-wise demonstration garden available to public
- Residential and commercial water audits conducted by staff
- Advanced leak detection for distribution system
- Residential and commercial rebates for installation of weather-based irrigation technology
- Residential and commercial rebates for installation of tipping bucket rain gauges
- Residential and commercial rebates for irrigation system repairs
- Residential and commercial rebates for sub-soil improvement and existing plant replacement with water-wise plant material
- Irrigation Plan submittal and approval for retrofits or new landscape installation
- Irrigation system audits provided by third party organizations
- Reuse water supplied to both golf courses for irrigation

CPMD teaches by example through its indoor and outdoor water conservation activities which include installation of five dual-flush toilets in its office building and use of a central irrigation control system that utilizes on-site weather data to manipulate amount of water applied through irrigation events.

CPMD has witnessed conservation success even though the Plan has not yet been approved by the CWCB. A major success in 2009 was one Sub-association used 2.7 MG less water than the average used between 2004 and 2008. This was accomplished through intense educational efforts and communication between CPMD, a Sub-association Board member and the Sub-association landscape manager on

irrigation repairs, leak detection, and central irrigation control system management.

More successes include 30 to 50 % water use reductions due to ET Controller installations, irrigation repairs, and irrigation clock management in single-family residences.

## **Castle Pines North Metropolitan District**

### **Introduction**

The Castle Pines North Metropolitan District currently serves approximately 3,200 single family residential homes and some retail development. The current population of Castle Pines North is approximately 9,600 people. The current service area covers approximately 3.8 square miles of land. The District is approximately 93% built out with only 240 empty single family lots available. Currently the Castle Pines North Metropolitan District is supplied by 11 Denver Basin groundwater wells. During the irrigation season wastewater return flows generated by the Castle Pines North Metropolitan District are delivered to a non potable reuse system that is used to irrigate The Ridge Golf Course.

On June 19, 2006 the Castle Pines North Metropolitan District became the first entity in the State of Colorado to develop and adopt a water conservation plan in accordance with the recommendations outlined in the Colorado Water Conservation Board's (CWCB) Water Conservation Plan Development Guidance Document. Castle Pines North Metropolitan District's Conservation Plan became the model document and its format has been copied by many other entities throughout the State of Colorado.

### **Conservation Plan Goals**

The Conservation Plan established by the Castle Pines North Metropolitan District



(CPNMD) plan established six goals that are shown below.

1. Provide a water savings target of an additional 175 to 220 AFY based on 2003 water demand patterns (16 to 20 gpcd based on projected population at build out) through existing and additional conservation measures and programs.
2. Select conservation measures and programs that target outdoor irrigation and customers of high use. Target customers include the following:
  - Residential (indoor and outdoor usage)
  - District irrigation of parks and open space
  - HOA irrigation
3. Closely monitor District irrigation on parks and open space.
  - Maintain 2005 irrigation levels on parks and drip irrigation
  - Reduce open space irrigation by an additional 10 percent (5.9 AF) with a total outdoor District usage not to exceed 93 AFY. (District metered usage in 2005 was 98.9 AF)
4. Provide assistance to the homeowner associations in reducing irrigated turf by 25 percent.
5. Select conservation measures and programs that is compatible with the community.
6. Establish a monitoring system that collects a sufficient amount of data to effectively measure the success of conservation programs and measures on an annual basis.

#### **Rate Structure**

In June 2004 the Castle Pines North Metropolitan District implemented one of the most innovative tiered water rates structures in the State of Colorado. This Inclining Block Rate Structure is unique in that it uses average monthly irrigation requirements in addition to actual lot size to determine a customer's monthly water budget. In other words, every month each and every lot has a separate and unique irrigation water budget. In conjunction with the monthly water budget the District has also implemented a four tier pricing system. The 2009 residential water rates and tiers are shown below.

#### **Residential Water Usage, Per 1,000 Gallons, Per Month**

Tier 1 \$ 3.30 within budgeted gallons

Tier 2 \$ 4.28 100.01% - 120% over budgeted gallons

Tier 3 \$ 5.96 120.01% - 140% over budgeted gallons

Tier 4 \$ 11.38 Greater than 140.01% over budgeted gallons

\*Winter Budget = 9,000 gallons at Tier 1

#### **Rebates**

In addition to implementing the Tiered Water Budget as described above the District has been offering rebates to its customers since 2005. Currently the Castle Pines North Metropolitan District is offering the following rebates:

Item	Benefit	Rebate: Up To
Rain Sensors	Overrides irrigation system by detecting rainfall.	\$100 (Limit one per household)
Programmable Irrigation Clock	Sets time limits to help conserve water; allows every 3rd day cycle.	\$75 (Limit one per household)
ET Controller (Residential)	Regulates irrigation based on climatic factors (e.g. temperature & humidity) that influence evapotranspiration.	\$200 (Limit one per household)
ET Controller (HOA/Commercial) Effective 6-1-2009	Same as Residential.	Varies For single controllers with 24 or more zones, rebate will equal 50% of purchase price. For smaller controllers, rebate will be \$200 for every 6 zones. Plans must be approved by the District in advance.
Sod Replacement (Residential)	Uses xeriscaping and/or artificial turf to replace sod and/or high maintenance grass/plants.	\$0.40/sq. ft. (500 sq. ft minimum – 4,000 sq. ft. maximum – Plans are to be approved by the District in advance.
Sod Replacement (HOA/Commercial) Effective 6-1-2009	Same as Residential.	Up to \$0.40/sq. ft. (500 sq. ft minimum – no maximum limit. – Plans are to be approved by the District in advance.
Low Flow Toilets	Uses 1.6 gallons per flush; Old toilets use three to five gallons per flush.	\$100 / toilet (Limit three per household - applies to replacement toilet ONLY)
Front Loading or Low Usage Washing Machines	Uses 27 gallons or less per load; less efficient machines use up to 45 gallons per load.	\$125 / machine (Limit two per household)
Water Efficient Showerhead (NEW)	Uses 2.4 gallons per minute vs. 4 gallons per minute.	\$10/showerhead (Limit four per household – applies to replacement showerheads ONLY)

On average the District has expended approximately \$25,000 per year on rebates. In 2009, the District has expended over \$36,000 in rebates which equates to approximately 2% of overall water sales revenue.

#### **Other Conservation Programs**

In September 2007 the Castle Pines North Metropolitan District was given a grant by the Colorado Water Conservation Board for the purchase and installation of a computerized irrigation control system. The system selected by the Castle Pines North Metropolitan District is known as the Calsense Control System. The Castle Pines North Metropolitan District became the first entity in the State of Colorado to implement this sophisticated system. Currently this system monitors and controls all of the District's four parks and several large areas of irrigated open space. The system monitors, temperature, precipitation, humidity and automatically adjusts irrigation system run times on a daily basis. This control system automatically shuts down individual zones that may have developed a leak from either a missing head or a pipe break. This system alone has saved the District hundreds of thousands of

gallons of water over the past two years. The District is currently in the process of offering the use of this system to several large Homeowners Associations in the Castle Pines North Community.

In Calendar Year 2008 the District, working in conjunction with several water conscious homeowners to develop a water conservation outreach program aimed at elementary school students. This program became known as WARP (Water Awareness Responsibility Program). Castle Pines North Metropolitan District's proactive support of this innovative water conservation program has enabled the program to be expanded throughout the Douglas County School system and has been presented to thousands of students throughout Douglas County.

In addition to the programs described above the Castle Pines North Metropolitan District has implemented a wide variety of water saving programs and projects that clearly demonstrate the District's commitment to water conservation. Those programs and their approximate cost are listed below:

<b>Project Name</b>	<b>Cost</b>
Installed approximately 1.54 Acre of Water efficient turf on Monarch Blvd.	\$ 250,000
North Open Space Xeriscape Demonstration Garden	\$ 80,000
Landscape Master Plan replace turf in street rights of way with Xeric Material	\$1,000,000
Remove one acre of Turf in North Open Space and replace with Native Grass	\$ 25,000
Install Synthetic Turf Soccer Field at Lagae Park	\$ 500,000

#### **Summary**

The District number one goal as established in its water conservation plan was to reduce water use by 16 – 20 gallons per capita day as compared to 2003 water use. In 2003 the per capita water use for Castle Pines North

Metropolitan District was approximately 178 gallons per capita day. In 2009 the gallons per capita day was reduced to approximately 142 gallons per capita day which far exceeds the goal of 20 gallons per capita day reduction



established in the Castle Pines North Metropolitan District's Water Conservation Plan.

Castle Pines North Metropolitan District's CWCB approved water conservation plan can be found at

<http://cwcb.state.co.us/conservation/relatedinformation/wcps/>

## Town of Castle Rock

In December 2006 the Town of Castle Rock (Town) adopted a Water Conservation Master Plan (Master Plan). The conservation goals identified in the 2006 Water Conservation Master Plan include:

- Reduce current and future water demands – Specifically reduce average water consumption by year 2030 from 165 gallons per capita per day (gpcd) to 135 gallons per capita per day. Only three years after adoption of the Master Plan, the Town's gpcd consumption is already reduced by over 10%.
- Create a community culture that includes water conservation
- Ensure financial stability

The implementation strategies identified in the 2006 Water Conservation Master Plan include:

- Implement landscape regulations for new development that result in efficient use of water, is aesthetically pleasing, and enhance the type of land use
- Implement incentive programs that encourage existing properties to be water efficient and aesthetically pleasing
- Implement rate strategies, such as a water budget rate structure, that reward efficient water use and discourage water waste; and
- Implement public education programs that allow the Community to make conservation a way of life.

Since the adoption of the Master Plan, the Town has implemented all of the strategies listed above with great levels of success and vast community support and participation.

- **Landscape Regulations & Principles.**

In July 2003, the Town adopted the Landscape Regulations & Principles. The plan is currently being updated and will require "water-wise" landscape designs for all nonresidential, residential builders, and multi-family developments. Ultimately, the goal will be to move away from the current three-day watering schedule as a demand management tool, and instead encourage smart landscaping practices that reduce water consumption.

- **Conservation Rebates.** Beginning in 2006, the Town implemented three conservation rebates for all qualified Town customers. In June 2009, the Town added three more rebates. The conservation rebates include:

- SMART Irrigation Controller
- High Efficiency Washer
- Three-day programmable Timer
- Rotary Nozzle Replacement
- Rain Sensor
- Smartscape Renovation

- **Water Budget.** In August 2008 the Town transitioned from an inclining block rate structure to a "water budget" rate system for all non-residential customers. The water budget rate system for residential customers followed in August 2009. Currently, the Town employs two seasonal employees to patrol and monitor water usage and adherence to the mandatory watering schedule. The revenue generated from watering violations has funded the conservation education and rebates programs.

- **Conservation Education.** Town staff has developed and administers frequent

"Water Wiser" classes for customers concentrating on water conservation practices, maintenance and management of sprinkler systems, and principles of Xeriscape. The Town also maintains several Xeriscape demonstration gardens open to the public with signage to identify plants and care instructions.

- **Landscape Retrofit Projects.** The Town has recently completed 2 different projects, totaling over \$500,000 to retrofit water thirsty median landscaping into water wise Xeriscape designs and efficient irrigation designs. Projects like this are anticipated to save hundreds of thousands of gallons each irrigation season.

Town of Castle Rock's CWCB approved water conservation plan can be found at <http://cwcb.state.co.us/conservation/relatedinformation/wcps/>

## **Centennial Water and Sanitation District**

On February 24, 2009, the Colorado Water Conservation Board approved the updated Water Conservation Plan of Centennial Water and Sanitation District. The Water Conservation Plan meets the requirements of the Water Conservation Act of 2004 and Colorado Revised Statute 37-60-126.

Centennial's Water Conservation Plan includes the evaluation of a number of existing and potential water conservation measures. Below is an explanation of current water conservation activities as well as those recommended for future implementation in the Water Conservation Plan.

### **Current Water Conservation Activities**

#### ***Conservation Promoting Rate Structure***

In the spring of 2003 CWSD was the first water provider in Colorado to adopt the water budget rate structure as a means to encourage water conservation through water rates. This new rate structure provided individualized water budgets for all accounts and emphasized the importance of staying within that budget with a financial impact on customers who used more water than their allocated water budget. The water budget rate structure has played an important role in the water savings that Centennial Water has experienced through its conservation program. Residential water budgets are formulated with an indoor and an outdoor component. The indoor component is 12,000 gallons every two months based on an assumed 65 gallons per capita per day for a family of three. Customers can sign an affidavit to receive an additional indoor allowance for larger families.

The outdoor component is based on the customer's actual lot size multiplied by an irrigable area factor of 45 percent. The 45 percent irrigable area factor was established based on a sample of aerial images for typical Highlands Ranch homes. An allowance of 27 inches of water based on historical evapotranspiration (ET) rates for the area, minus average annual measurable rainfall, is provided. These budgeted outdoor amounts are then allocated based on historical ET for the weeks within each billing cycle.

Non-residential irrigation customers are budgeted similarly to the outdoor component of residential customers. The difference is that non-residential customers receive a budget based on actual irrigated area regardless of plant type. The customer is responsible for supplying the landscape area data to the District.

Non-residential indoor water budgets are calculated based on the size of the meter servicing the business. Each customer is allotted 189,000 gallons per ¾" equivalent.

## ***Rates***

% of Budget	Residential	
	Summer	Winter
0-100 %	\$ 2.55	\$ 2.55
101 - 120%	\$ 3.50	\$ 3.50
121 - 140%	\$ 5.25	\$ 3.50
Over 140 %	\$ 7.90	\$ 5.80

% of Budget	Non-Residential	
	Indoor	Irrigation
0-100 %	\$ 2.55	\$ 2.55
101 - 120%	\$ 3.50	\$ 4.00
121 - 140%	\$ 3.50	\$ 7.00
Over 140 %	\$ 5.80	\$ 12.00

There have been several issues that have been addressed since the adoption of the water budget in 2003.

- Adding a permit program to increase the water budget over a 3 week period once per year for customers wanting to add new sod or make repairs in April, May, September or October discourages planting during the heat of the summer.
- A variance for households with a population greater than three persons supports fairness throughout the service area.
- Water budgets were increased by 1,000 gallons per equivalent per month during the winter to accommodate winter watering of trees and shrubs, enabling customers to care for their landscape during the winter months.
- In 2007 the non-residential irrigation water rates for water use above 100% of budget were increased in order to help encourage water conservation in that customer group.
- In December 2007 non-residential indoor water budgets were changed from allotments based on historical usage to an allotment based on meter size as state above. Budgets based upon historical usage were not effective in promoting water conservation.
- In 2009 all irrigation customers using non-potable irrigation were assigned

irrigation budgets similar to potable water customers. Previously, non-potable customers were billed at the base non-potable rates as per our rules and regulations.

The water budget rate structure has been well received by customers of the District, and has been a successful water conservation measure. The flexibility of the water budget rate system allows the District to adapt to different issues as they arise.

## ***Metering***

The District has been 100 percent metered since construction began in 1981. Commercial irrigation only meters have been encouraged since 1981 and since 2003 commercial combination indoor and irrigation meters are no longer allowed. Centennial Water has an ongoing program to conduct maintenance, sample meter accuracy and replace aging meters on a scheduled basis. Residential water meters are repaired or maintained in compliance with American Water Works Association standards. Commercial meters are pulled annually and checked for accuracy. Any repairs or maintenance is also done at this time.

## ***Water Conservation Specialist***

In 2004 the District hired a full-time Water Conservation Coordinator to oversee the direction and implementation of its water conservation programs. Technical assistance is offered for both indoor and outdoor water conservation techniques including but not limited to water use audits, leak detection, appliance water use, landscape materials, irrigation efficiency and controller scheduling. In addition the water conservation coordinator conducts public education programs, evaluates water conservation measures, and manages the water monitors employed during the irrigation season.

## ***Water Efficient Fixtures and Appliances***



In accordance with the District's rules and regulations, and the uniform plumbing code, low-flow or water efficient plumbing devices are required on all new construction. In 1992 the U.S. Congress passed the U.S. Energy Policy Act which established maximum allowable water flow rates for plumbing fixtures. Beginning January 1, 1994 all plumbing fixtures sold in the U.S. met these requirements. Seventy percent of homes in Highlands Ranch were built in 1994 or later. Seventy three percent of commercial construction occurred in 1994 or later.

### ***Water Reuse Systems***

Centennial Water's water reuse system of legally reusable water consists of two methods: (1) further treatment and direct reuse of reclaimed wastewater for irrigation and (2) recapture by direct diversion or exchange of reusable water discharged to the South Platte River including indoor return flow and lawn irrigation return flow credits. Currently the Waste Water Treatment Plant, Redstone Park, the Highlands Ranch Golf Club and the Wind Crest Assisted Living development use reclaimed water for their irrigation. In 2009 additional filters were purchased to increase capacity of the reclaimed irrigation water system from 3 MGD to 7 MGD. In 2006, 281 AF of reuse water was used for irrigation, and 3,873 AF was recaptured or exchanged, resulting in a total of 4,154 AF of water that would have otherwise been supplied through either surface or groundwater resources.

### ***Leak Identification and Repair***

A distribution system leak identification and repair system is used by the District. Using sophisticated leak detection equipment, District staff can locate leaks within the distribution system and perform the necessary repairs.

### ***System Audits***

System wide audits are conducted by the District annually to determine the efficiency of the water distribution system. There are three pieces of

data used to perform this evaluation: total water production, total water billed to customers and water accounted for, but not billed. The water unaccounted for is calculated by subtracting all accounted for water (total water billed and accounted for/not billed) from the total water production. The American Water Works Association guidelines consider up to 10 percent unaccounted for water to be acceptable. Over the past 11 years, the average percentage of unaccounted for water was 6.79 percent, showing that the District's water system is consistently within an acceptable range.

### ***System Pressure Management***

The District's water system contains five different pressure zones that are monitored at the water treatment plant for safety and optimal service. In addition service pressure regulation is mandated by the District on domestic water service lines and irrigation service lines.

### ***Education/Information***

#### ***Dissemination/Xeriscape Promotion***

The District has a continuous public education program to help inform its customers of ways to conserve water both indoors and outdoors. This program includes:

1. **Water conservation workshops** are offered throughout the year to both residential and commercial water users to promote water use efficiency.
2. **Water education literature** is available at the District office building and is handed out at all public events.
3. Free **home water management kits** that include a shower timer, rain gauge, shower/faucet flow bag, toilet leak detection tablets and the above literature. These kits are also available at the District office building and all public events.
4. **Promotion of low water use landscapes and efficient irrigation practices** with xeriscape literature, workshops, and demonstration gardens.

5. **Water conservation section on the District's web page** has all of the aforementioned literature available to residents. The web page also contains links to other resources that will help customers conserve water.
6. **Water monitors** patrol the service area during the summer months to ensure compliance with mandatory water conservation measures and help educate customers.
7. **Collaboration** with water conservation groups in the South Metro area, such as the Douglas County Water Resource Authority, to share and partner in water conservation efforts.

#### ***Regulations/Ordinances***

Centennial Water and Sanitation District has placed several regulations governing the direct use of water in the rules and regulations.

- Outdoor sprinkler irrigation is prohibited from 10 a.m. until 6 p.m. daily. The District also recommends that customers follow a voluntary three day per week watering schedule.
- Hand watering trees, shrubs and plants is allowed at any time, as long as a hose is held or a water conserving method is used (such as a drip, micro spray, deep root watering device or watering can).
- Wasteful water practices, such as allowing excess water to flow in street gutters and neglecting to repair leaks, are prohibited.

Water monitors are used throughout the irrigation season to both ensure water regulation are followed as well as provide education to customers throughout the community. In 2009 501 residential customers were contacted by water monitors with 422 receiving a warning for violating watering restrictions. 27 non-residential customers received watering violations in 2009.

#### ***Technical Assistance***

**Water audits** are conducted by District staff at homes and businesses that request this service or have been determined by staff to have irregularly high use.

Through partnership with the Center for Resource Conservation **irrigation audits** are available to residential, commercial and home owner association customers. The purpose of offering irrigation audits to the Districts customers is to help improve irrigation efficiency. In 2009, 221 residential audits and 6 large property audits were performed, totaling 595 audit hours. Approximately \$30,000 dollars were spent on irrigation audits in 2009.

The District hosts annually a **Certified Landscape Irrigation Auditor class and exam** offered by the Irrigation Association for local landscape contractors and designers. This course is designed to increase the knowledge and skill level of landscape contractors and designers in the area of irrigation efficiency.

#### ***Residential Toilet Rebate (Pre-1994 Construction)***

This program is targeted at the homes built in Highlands Ranch before January 1, 1994. Beginning in 1994 all toilets sold in the United States were required to meet the low-flow standard of 1.6 gallons per flush established by the Environmental Protection Agency. This program provides a \$75 dollar rebate for customers who replace older high volume toilets.

The program started in August of 2009 and as of December, the District has replaced 184 toilets at a cost of \$13,800.

#### **Future Water Conservation Activities**

Through development of the approved Water Conservation Plan, several measures were identified for possible future implementation. Those measures are described below.

### ***Commercial Pre-Rinse Sprayer***

Pre-rinse sprayers rinse large food waste from pots, pans, utensils, and dishware before they enter a dishwasher. Water conserving valves use less water and have equal to or better rinsing effectiveness due to improved spray pattern.

### ***Non-Residential ET Controller Rebate***

Evapotranspiration, or ET, is the amount of water used by plants through the combined processes of evaporation and transpiration. ET controllers automatically change the irrigation controller settings to apply only the amount of water needed to replace ET. It is estimated that 15 percent of water used to irrigate landscapes can be saved when using ET controllers.

### ***Residential and Non-Residential Rain Sensors***

Rain sensors are devices that automatically interrupt the regular irrigation schedule in the event of a rain storm. This program would provide an incentive for homeowners, businesses and home owner associations to install rain sensors.

### ***Non-Residential Turf Replacement Rebate***

This program would provide an incentive to replace high water using turf with low water using plant materials. By replacing turf with more water efficient plant materials and following the principles of xeriscape, it is estimated that the landscape would use between 30 to 50 percent less water.

Ongoing monitoring and evaluation of current and future conservation measures is planned by Centennial Water to ensure cost-effectiveness and actual water savings. To date, it is estimated that the water conservation program consisting of the measures and programs listed above saves approximately 2,000 acre-feet annually, or 11,500 acre-feet since 2003. Centennial Water has identified a water

conservation goal of an additional 1,000 acre-feet annually. In order to meet this goal Centennial currently budgets approximately \$200,000 per year for water conservation.

Centennial Water and Sanitation District's CWCB approved water conservation plan can be found at

<http://cwcb.state.co.us/conservation/relatedinformation/wcps/>

## **Center of Colorado Water Conservancy District**

Center of Colorado is a water conservancy district formed under C.R.S. 37-45-101, et. seq. Its jurisdictional boundaries encompass all of Park County, which is the headwater county for most of the major tributaries for the South Platte River. Unlike most of the other municipal participants in the Chatfield reallocation project, Center of Colorado does not provide treated/potable water to residential and commercial customers. Rather, Center of Colorado intends to use its 0.64% of the project allocation in Chatfield Reservoir as part of its county-wide plan for augmentation. Park County is a rural county with a primarily decentralized population base. Thus, unlike in the more densely populated urban centers along the Front Range, most of the water users within Park County are not connected to central water and wastewater systems, but rather, operate their own wells and diversions. Under its plan for augmentation, Center of Colorado sells and leases augmentation water to commercial, industrial and domestic users to augment depletions caused by the individual user's wells and/or surface water diversions. Since it does not supply municipal water directly to customers, Center of Colorado has not adopted a water conservation plan in the manner of the other



municipalities and water districts who are members of the Chatfield reallocation project.

However, Center of Colorado, as part of its augmentation plan, has in place guidelines and rules and regulations that lead to the conservation and promote the efficient use of water resources within its service area. These include the following:

- All water users under the plan are required to be metered, thus all water used is strictly accounted for and leakage and overuse can be identified and remedied.
- The average consumption of water per capita for in-house domestic uses is 0.026 acre feet per year which is very low by municipal standards.
- Large tracts of lawn irrigation are discouraged and the plan has implemented a specific rate structure for lawn irrigation.
- Center of Colorado has prioritized the allocation of its augmentation water supplies with first priority going to:
  1. Existing water users who are currently out of compliance;
  2. Commercial and industrial users;
  3. Domestic users, including persons who wish to upgrade their types of use.

## **Cottonwood Water and Sanitation District**

As part of our efforts to develop a Water Conservation Plan for Cottonwood Water and Sanitation District, the District reviewed the plans of Denver Metro Area water providers. The model used was simply based on promoting

reduced water consumption by providing an equitable allocation of the water supply to each of its customers based upon the volume of water a customer reasonably needs, and significantly increasing rates beyond the allocation.

Summarized below is the water conservation plan for Cottonwood that began May 1, 2003. The plan features include an indoor and irrigation allocation, cash incentives for the installation of low flow fixtures, and an increasing block rate structure.

### **An annual in-home/commercial allocation based on the average historic consumption.**

The annual indoor allocation for a residence is based the non-irrigation months of January/February 2003. Analysis of these two months indicates that the average per person consumption is approximately 65 gallons per day assuming an average of 3 people per single family home.

We recognize that the proposed allocation is for a typical household of three people and that there will be families that have either more or less than the basis for the typical. The proposed plan would increase the indoor allocation by 1,860 gallons per month per person for each person living in the home above 3.

On the commercial side, the allocation is simply based on the average monthly consumption during January and February 2003. In the case of the multi-family homes, the allocation will be based on the number of occupied units per meter times an average of 2.2 people per unit and 65 gallons per person per day. This allocation is identical to the single-family home allocation with exception to the number of people 2.2 (multi-family) versus 3 people per single family home. As with the single-family homeowners, if and when the occupancy increases, the allocation will be increased.

### **Annual irrigation allocation based on 30-inches over the landscape area.**

The annual irrigation allocation is based on the providing sufficient water for a healthy lawn. According to Colorado landscape experts, Kentucky bluegrass requires approximately 24 to 30-inches of water per year to remain healthy. Therefore, we propose that each single-family homeowner receive an allocation of approximately 54,200 gallons based upon 30 inches per year for irrigation. This allocation is based on an average landscape area of 2900 square feet and makes no distinction between grass and shrubs. Again, as with the in-home allocation, if the landscaped area can be shown to be greater than the average, the allocation would be increased.

Similarly, the commercial sites will receive an allocation based on the total irrigated acreage times 30 inches per year of irrigation. The amount of irrigated acreage for the commercial sites will be based upon measurements made from aerial photography, or from field estimates.

### **An increasing block rate structure consisting of a fixed fee plus a consumption charge: (2009 rates)**

Fixed Fee - Collected to cover the fixed costs of the District: \$16.06 /month

"Water Conserving" Rate – Base rate charge for consumption up to the property's allocation: \$3.10 /1000gallons

"Excessive" Rate – Twice the "Water Conserving" Rate for consumption from 100% to 150% of the property's allocation: \$6.20/1000 gallons

"Abusive" Rate – Three times the "Water Conserving" Rate for consumption above 150% of the property's allocation: \$9.30/1000 gallons

### **Cash incentives for the installation of Ultra Low Volume toilets, Water Wise Washing Machines and Low flow fixtures.**

Cottonwood Water instituted a rebate program, similar to Denver Water's, for the purchase and installation of Ultra Low Volume (1.6 gals versus 3 to 5 gals for the standard) toilets, low flow shower heads and purchase of horizontal axis/front loading washers. The rebate program consists of a \$100 cash incentive for each ultra low flush toilet (three per household) that is purchased and installed by the customer, \$125 rebate for horizontal axis/front loading washers (one per household) and \$20 each for each low flow shower head (three per household). The program is limited to \$50,000 on a first come first basis. We require that the customer provide proof of purchase and evidence of installation of the new toilets, washers, and low flow showerheads. A conservative estimate shows that if all 1520 single-family homes replaced an average of two toilets each with a total of 6 flushes per day, this would reduce consumption by approximately 16 acre-ft.

In summary, the water conservation plan described above is intended to reduce consumption rather than restrict water usage and thus extend the economic life of the groundwater supply.

### **Central Colorado Water Conservancy District**

*CCWCD is committed to natural resource management. We deliver water with extreme efficiency, ensure that our members have the latest irrigation technology, and support critical water science research. Our programs have received national recognition, with organizations providing over 1.5 million grant dollars.*

### **Colorado Agricultural Conservation Outreach (CACO)**

CACO is our premiere conservation program. It supplies ultra-efficient irrigation equipment to farmers, and provides outreach seminars and in-field conservation services to the Colorado public. In two years, over \$150,000 of precision irrigation equipment has been awarded to irrigators.

#### **CCWCD Contract Audit**

Drought conditions demand accurate water accounting. CCWCD is sitting down with every member of its irrigation community, unrolling a map, and discussing how water moves on their farm. With this data, CCWCD will manage its water with unparalleled accuracy.

#### **Conservation Science and Research**

Central is partnered in two, long-term water science studies. With the United States Geological Survey (USGS), CCWCD is investigating water use efficiency and aquifer return flows of flood and pivot irrigation systems. With the Colorado State University, CCWCD is photographing the land with an airplane equipped with multispectral remote sensing. These pictures will reveal irrigation uniformity and the efficiency of various irrigation methods. In addition, CCWCD is actively collecting water quality data throughout the region, utilizing its extensive network of monitoring stations.

#### **Water Metering and Telemetry Program**

Every well pumping within the district must have a flow meter, and in the past 5 years, CCWCD has installed over 1000 meters on irrigation wells. Now the first phase is complete, and CCWCD is currently installing radio telemetry on 200 of its flow meters. This equipment will provide real-time data feeds about irrigation pumping, and will be transmitted to our website for member reference and CCWCD's accounting.

#### **Green Reservoir Design**

CCWCD spearheads a new type of "green" reservoir: a small, natural looking depression

where water is allowed to rest, and infiltrate into the ground. By making reservoirs this way, water managers can clean surface water through a filtration process similar to home water purifiers. In addition, connecting the reservoirs with the natural hydrology of the region allows for storage capacity greater than traditional designs, and conserves energy by moving water with gravity and natural hydrological flows. These sites provide a wildlife benefit by establishing critical ephemeral pools for migrating waterfowl, boosting recreation and environmental education potential at the sites.

#### **Denver Botanical Gardens**

In 2009, DBG Chatfield installed a computerized Rainbird ET Site Controller with a weather station to monitor garden and turf irrigation on the site. This system allows DBG Chatfield to irrigate to about 80 % of evapotranspiration rate of turf and gardens. Additionally, all gardens constructed at Chatfield utilize native, water efficient plants that minimize the need for supplemental irrigation. This system controls about 90% of all Denver Water used on the site and will be expanded as funding allows.

Additionally, soil for new turf and gardens planted on the site, is amended with 3 cubic yards of organic compost per thousand square feet prior to planting, to increase water holding capacity. This was started in 2008 in cooperation with Denver Water when the amphitheater was constructed.

In the next two to three years, we are planning to utilize underground, drip irrigation on our 10 acres of pumpkins and 7 acres of vegetable crops. This system will be controlled by Rainbird ET Site Controller as well.

#### **Mount Carbon Metro District**

Mount Carbon Metropolitan District is currently reviewing water conservation measures and will



develop appropriate incentive and regulations to promote efficient use of water within the district. The district has already initiated a water use monitoring program to record water use and assess water losses within the system. Incentives and regulations for future water conservation within the district will include the following:

- Commercial and Residential High-Efficiency Toilets and Urinals
- Commercial and Residential Smart Irrigation Systems
- Residential High-Efficiency Clothes Washers
- Xeriscape Programs

In addition to these incentives, the district will provide consumer education information to promote water conservation for all customers. Tiered rate structures and water restrictions during drought conditions will also be part of the water conservation measures.

### **Perry Park Country Club**

In 2004, Perry Park Country Club installed a state of the art irrigation system with individually programmable sprinkler heads and an on-site weather-evapotranspiration station. This system can conserve water in dry years by limiting irrigation to critical greens, tees, and fairways areas.

Following installation, each individual head was percent adjusted to only irrigate the minimum water required to keep the Club's turf healthy. Since installation, approximately \$10,000 is spent annually for system upkeep allowing the system to continue to run at full efficiency.

In 2008, wireless sub-surface soil sensors were installed to increase efficiency of the system. Along with the Club's on site weather station, these sensors are monitored daily to provide the data necessary to apply the minimum water required for our turf.

After initial installation, the Club has averaged a 25 percent annual savings of water use from the previous irrigation system. This equates to conserving about 45 acre-feet annually. The sub-surface probes have added an additional 3 percent savings or 3.9 acre-feet annually.

And finally, remote access has recently been added to the operation of the Club's irrigation system. This feature allows for monitoring and operation anywhere Internet access is available. Any sudden condition changes (i.e. weather, ET rates) can be monitored and the system can be shut off or adjusted remotely.

All of these upgrades, along with extensive training and education, continue to conserve water at Perry Park Country Club for now and the foreseeable future.

### **Pinery Water and Wastewater District**

The Pinery Water and Wastewater District has a Water Conservation Plan that was approved by in 2002. A Draft of a new Water Conservation Plan has been submitted to CWCB and comments have been received. The Pinery is working on finalizing the plan for resubmission to the CWCB before the end of the year.

The new plan builds on the conservation programs already in place and has a heavy focus on reducing the outdoor demand within the District. A reduction of indoor water use is also part of the program but it is felt that the opportunities for significant conservation savings are greater with a stronger focus on outdoor use. The focus on outdoor is in part driven by the fact that there was a 20% reduction in outdoor use when the District imposed voluntary watering restrictions during the drought of 2002 and 2003.

The Pinery currently has in place an aggressive tiered rate structure which provides a significant water conservation incentive. The District also

provides courtesy meter reads on request so customers can better understand how much water they use during an irrigation cycle. Currently customers are billed bi-monthly and the courtesy meter reads are a way to provide more timely information to customers without altering the current billing arrangement. The District is working to implement monthly billing and plans to have new meter routes in place in 2010 for a possible conversion to monthly billing in 2011. Monthly billing will also provide a mechanism for monitoring of system wide leakage and changes in usage.

The education component of the Pinery's program is primarily contained in regular newsletters to customers. In addition the District has toilet test tablets and water conservation kits available in the main office. Copies of the newsletters can be found on the District's website at <http://www.pinerywater.com>. The Pinery also is an active member in the Douglas County Water Resource Authority which is providing HOA education and training as well as focus on water conservation education in the schools.

The Pinery operates under a state approved augmentation plan that allows for credits for return flows from the District's wastewater treatment plant as well as credits for lawn irrigation return flows. The District exchanges these return flows on Cherry Creek to provide additional water to its customers.

## **Roxborough Water and Sanitation District**

Roxborough Water and Sanitation District (RWSD) has successfully implemented a combination of water conservation measures resulting in per capita water use well below average for the Front Range Area. The primary components of RWSD's conservation program include watering restrictions, education, conservation pricing, customer consumption

monitoring, and conservation rebates. Since 2002, RWSD's water conservation efforts have reduced per capita water use by over 16%. The average water consumption for RWSD residential units is 83,000 gallons per year, or 90 gpcd, approximately one half of the per unit residential consumption experienced by some of the major water providers in the area.

### **Watering Restrictions**

Watering restrictions have proven to be the most effective method for reducing water demand, and RWSD restricts outdoor watering to two days per week. Watering restrictions have been the key to the overall reduction in water use, and have also successfully reduced maximum day demands.

### **Education**

Public education is essential to any conservation program, and RWSD provides conservation education to customers through multiple sources including newsletters, the District's web site, seminars, and demonstration projects. RWSD's educated customer base contributes significantly to the low per capita water use in the District.

### **Conservation Pricing**

A conservation based rate structure provides financial incentives conservation. RWSD's increasing block rate structure provides significant conservation incentives, particularly to customers in the highest water use brackets.

### **Customer Consumption Monitoring**

RWSD monitors customer consumption, and personally contacts customers with unusually high consumption. Personal contact provides the opportunity to assist customers in reducing consumption, as well as raising customer awareness of normal consumption.

## **Conservation Rebates**

RWSD provides conservation rebates for installation of high efficiency appliances. In 2008 and 2009, the District provided approximately \$24,000 in rebates to almost 200 customers. Besides improving water efficiency, the popularity of the rebate program demonstrates the community's interest in water conservation.

## **State Parks**

Chatfield State Park obtains potable water from Denver Water and acts as a water distributor in providing for the needs of park facilities, grounds, and over 1.7 million annual park visitors on properties managed by the park through a lease with the U.S. Army Corps of Engineers, which owns the property. The majority of the water delivery infrastructure and end use appliances was originally designed and built by the USACE in the late 1970's.

In order to maximize water conservation, Chatfield State Park utilizes the following practices:

- All new or replacement facilities and appliances meet water conservation, low flush, and low flow standards.
- Use of pay showers and washing machines in campground visitor service centers.
- Vehicle washing and Aquatic Nuisance Species decontamination equipment meet low flow criteria.
- Nighttime sprinkler watering of the only park turf grass area at the swim beach is accomplished according to the recommended Denver Water schedule.
- Drip lines are used only until new shrubs and trees are established.
- Ongoing efforts to remove Russian Olive and Tamarisk.
- Use of native vegetation whenever possible for revegetation efforts.
- Continuous monitoring of invoices and meters for evidence of leaks.

## **Stonegate Village Metropolitan District**

Stonegate Village Metropolitan District ("SVMD") provides water and wastewater services to residents and businesses located in Douglas County. In addition to the residents of the SVMD, SVMD provides these same services, by contract, to residents and businesses in the adjacent Lincoln Park Metropolitan District and Compark Business Campus Metropolitan District. At build-out, SVMD will serve approximately 4700 single family equivalents (SFE).

SVMD has taken three steps to promote water conservation to its customers. First, it has established the following outdoor watering schedule:

- No outdoor watering before April 15<sup>th</sup> or after October 15<sup>th</sup>
- Addresses ending with an even number (0, 2, 4, 6 or 8) may water Sunday, Tuesday and Friday.
- Addresses ending with an odd number (1,3,5,7 or 9) may water Monday, Thursday and Saturday.
- No watering is permissible on Wednesday
- Watering is permissible between the hours of 7 pm and 8 am on your designated watering days.
- Three week grace period with no watering restrictions is granted for users with new lawns provided the installation occurs prior the Memorial Day or after Labor Day.

Second, established an increasing fee structure based on water use as follows:



- \$1.61 per 1,000 gallons for the first 6,000 gallons
- \$2.95 per 1,000 gallons for the next 6,000 gallons
- \$4.29 per 1,000 gallons for the next 6,000 gallons
- \$5.36 per 1,000 gallons for the next 6,000 gallons
- \$7.50 per 1,000 gallons for the next 6,000 gallons

Thirdly, SVMD utilizes treated effluent from its wastewater treatment plant to irrigate approximately 150 acres of parks and open space.

In addition to the above, SVMD is currently working on a rebate programs that encourage removal of Kentucky Bluegrass, installation of ET Controllers, installation of approved rotary nozzles and purchase of High Efficiency Clothes Washers.

Finally, the SVMD is a member of the Douglas County Water Resource Authority which, among others, is dedicated to water resource conservation and education.

### **Western Mutual Ditch Company**

Western Mutual Ditch Company is an agricultural organization that coordinates very closely with the Central Colorado Water Conservancy District in the operation of its water conservation program. This coordination includes active participation in the Colorado Agricultural Conservation Outreach program. This program supplies ultra-efficient irrigation equipment to farmers, and provides outreach seminars and in-field conservation services to the Colorado public.

In addition, all agricultural production wells used by members of the Western Mutual Ditch Company are metered and flow amounts are

carefully recorded and reported to appropriate officials.

### **Douglas County Water Resources Authority**

Douglas County Water Resources Authority (DCWRA) is not a participant in the Chatfield Reallocation project but, instead, is a regional collection of 19 governments, created in 1992, dedicated to water resource conservation, education and policy formation. All nine of the participants in the Chatfield project located in Douglas County are members of DCWRA and contribute financially to its water conservation activities. These innovative activities have included:

- Distribution of 108,000 newly created DVDs on Xeriscape principles to all single family residents in Douglas County.
- Educational and training programs targeted to elementary and middle school teachers.
- Member surveys on water conservation programs to facilitate information sharing.
- Promotion of county, state and federal legislation promoting water conservation.
- Creative conservation awareness programs with corporate partners.
- Training 160 high school students as Water Ambassadors who then trained another 2,000 fourth grade students in water conservation principles.
- Advertisements during Colorado Rockies broadcasts reaching 16 million persons
- Creation of conservation tip videos (available for viewing at the Authorities website: DCWater.org).
- Promotion of the EPA WaterSense program.



## **SECTION 7:**

# **LETTERS AND RESOLUTIONS OF SUPPORT**

# **SOUTH PLATTE RIVER CHATFIELD RESERVOIR REALLOCATION STUDY**

## **Government:**

Colorado Governor Bill Ritter  
Colorado General Assembly  
Colorado General Assembly Douglas County Legislators  
Colorado Division of Wildlife  
Colorado Water Conservation Board (non-federal sponsor)  
Douglas County Board of Commissioners  
Douglas County Water Resource Authority  
Metro Basin Roundtable  
South Suburban Parks and Recreation District  
The South Platte Basin Roundtable  
Urban Drainage and Flood Control District  
Weld County Board of Commissioners

## **Non-Profit:**

Audubon Society of Greater Denver  
The Nature Conservancy  
Trout Unlimited  
Western Resource Advocates

## **Downstream Users:**

City of Aurora  
City of Brighton  
Central Colorado Water Conservancy District  
Denver Botanic Gardens at Chatfield  
Western Mutual Ditch Company

## **Instream Users:**

City and County of Denver  
Denver Water  
The Greenway Foundation  
City of Littleton  
Metro Wastewater Reclamation District

## **Upstream Users:**

Town of Castle Rock  
Castle Pines Metropolitan District  
Castle Pines North Metropolitan District  
Centennial Water and Sanitation District  
Center of Colorado Water Conservancy District  
Perry Park Country Club  
Roxborough Water and Sanitation District  
South Metro Water Supply Authority

## **Other:**

Hock Hocking, LLC



# STATE OF COLORADO

## OFFICE OF THE GOVERNOR

136 State Capitol Building  
Denver, Colorado 80203  
(303) 866 - 2471  
(303) 866 - 2003 fax



Bill Ritter, Jr.  
Governor

January 25, 2008

Jeff Shoemaker  
Executive Director  
The Greenway Foundation  
1040 South Gaylord Street, Suite 201  
Denver, Colorado 80209

Dear Mr. Shoemaker:

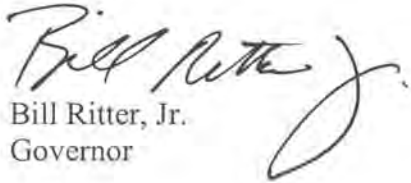
On behalf of the State of Colorado, I write to express support for the efforts of the Colorado Water Conservation Board and the Chatfield Reservoir Reallocation Coalition to secure federal funding for the Chatfield Reservoir Reallocation Environmental Impact Statement. As the local sponsor for the project, the Colorado Water Conservation Board is working in conjunction with the U.S. Army Corps of Engineers to complete work on the EIS.

As Colorado continues to grow, particularly in the Denver metropolitan area, we must look at the resources we have to determine whether we can put existing infrastructure to better use. The U.S. Army Corps of Engineers has determined that Chatfield Reservoir can accommodate an additional 20,600 acre feet of water storage without limiting its usefulness as a flood control structure. This additional storage space will be used by a group of water providers, farmers and environmental organizations to meet the diverse needs of our growing state. It is imperative that the current EIS move forward in a timely fashion. It is critical that federal funding for the EIS be available to complete this important study. This once-in-a-generation opportunity enjoys broad support from municipal, agricultural and environmental interests.

- It will make use of an existing water storage facility.
- It will not require construction of a new water storage facility.
- It may bring significant revenues to the federal treasury.
- The water will originate from snowmelt and stormwater runoff within the South Platte River Basin and will be captured and stored in Chatfield.
- It will provide additional water for Northeast Colorado farmers to help meet critical irrigation needs.
- It will help cities and special districts meet drinking water and other municipal needs both above and below Chatfield.
- It will provide opportunities for environmental and recreational enhancements along the South Platte River in the 53-mile Denver urban river corridor from Chatfield Reservoir to below the Adams County-Weld County line.

The Chatfield Reservoir Reallocation Project is an excellent example of the solutions that Colorado must embrace to meet my vision for the 21<sup>st</sup> century that calls for maximizing water supplies through a responsible mix of conservation, re-use, efficiency, cooperation and voluntary crop-to-city water agreements.

Sincerely,

A handwritten signature in black ink, appearing to read "Bill Ritter, Jr.", with a large, stylized flourish extending from the end of the signature.

Bill Ritter, Jr.  
Governor



SENATE JOINT RESOLUTION 07-019

BY SENATOR(S) Harvey, Kopp, Brophy, Isgar, Groff, Schwartz, Gordon, Kester, Renfroe, Romer, Sandoval, Taylor, Veiga, Wiens, May R., and Tochtrop;

also REPRESENTATIVE(S) McNulty, Balmer, Hodge, King, May M., McKinley, Mitchell V., Rice, Roberts, Rose, Sonnenberg, Stephens, Summers, Vaad, White, Benefield, Borodkin, Butcher, Cadman, Carroll M., Carroll T., Curry, Frangas, Gibbs, Hicks, Kefalas, Kerr A., Kerr J., Labuda, Lambert, Levy, Liston, Looper, Lundberg, Madden, Marostica, McFadyen, Primavera, Riesberg, Soper, Stafford, Swalm, Todd, and Witwer.

CONCERNING SUPPORT FOR THE CHATFIELD RESERVOIR  
REALLOCATION PROJECT.

WHEREAS, All water users in the state of Colorado are dependent on the effective utilization of limited supplies of water that predominantly result from runoff derived from snowmelt, which frequently moves at a high rate of flow and occurs during a relatively short period in the spring of each year; and

WHEREAS, Providing water for the beneficial use of the citizens of Colorado requires surface water storage capacity to capture runoff for later delivery to users; and

WHEREAS, The United States Army Corps of Engineers (USACE) has determined that Chatfield Reservoir can accommodate 20,600 acre-feet of storage for municipal and other purposes without compromising its flood control function; and

WHEREAS, Additional water storage should be pursued through a reallocation project for the improvement and rehabilitation of existing structures; and



WHEREAS, This reallocation project at Chatfield Reservoir will:

- Allow water originating from snowmelt and storm water runoff within the South Platte River Basin to be stored in Chatfield Reservoir;
- Provide additional water for Northeast Colorado farmers to help meet critical irrigation needs;
- Help several water providers meet drinking water and other municipal needs, both above and below Chatfield Reservoir; and
- Provide opportunities for environmental and recreational enhancements along the South Platte River in the 53-mile urban river corridor from Chatfield Reservoir to below the Adams-Weld County line; and

WHEREAS, The majority of participants in the reallocation project have existing water rights that provide for the capture, storage, and use of water available to the South Platte River above Denver without injury to other water rights; and

WHEREAS, The municipal participants in the reallocation project have implemented, and will continue to implement, measures to increase the benefits of water savings through water conservation programs and reuse projects; and

WHEREAS, The 15 participants in the reallocation project and the state of Colorado, through the Colorado Water Conservation Board (CWCB), have contributed more than \$1.5 million in a cooperative regional effort; and

WHEREAS, Colorado law recognizes the right to capture, store, and move water from where it flows to where it is needed; and

WHEREAS, The constitution of the state of Colorado, in section 6 of article XVI, states: "The right to divert the unappropriated waters of any natural stream to beneficial uses shall never be denied."; and

WHEREAS, This once-in-a-generation opportunity to expand use of an existing facility enjoys broad support from municipal, agricultural, and environmental interests; and

WHEREAS, The CWCB and the USACE have jointly sponsored and are presently engaged in the Chatfield Reservoir reallocation feasibility study and environmental impact statement process to determine the best way of reallocating existing flood protection storage space to other uses; now, therefore,

*Be It Resolved by the Senate of the Sixty-sixth General Assembly of the State of Colorado, the House of Representatives concurring herein:*

(1) That the General Assembly hereby urges continued cooperation between the CWCB, the USACE, the Division of Parks and Outdoor Recreation in the Department of Natural Resources, and water users in order to fully utilize storage capacity in Chatfield Reservoir for municipal and other purposes;

(2) That the many offices of the state of Colorado involved in and affected by such storage reallocation are requested to cooperate in the reallocation project to the fullest extent reasonable;

(3) That the CWCB and the USACE are requested to conduct the environmental impact statement process efficiently and expediently to resolve technical matters and approvals related to the flood operation of Chatfield Reservoir in support of the need for water supply development; and

(4) That appropriate measures should be established to at least replace and, where reasonable, to improve the recreational and environmental resources impacted by a revised Chatfield Reservoir operation.

*Be It Further Resolved,* That copies of this Joint Resolution be sent to the Colorado Water Conservation Board, the U.S. Army Corps of

Engineers, each member of Colorado's Congressional delegation, and the Colorado Water Congress.

  
Joan Fitz-Gerald  
PRESIDENT OF  
THE SENATE

  
Andrew Romanoff  
SPEAKER OF THE HOUSE  
OF REPRESENTATIVES

  
Karen Goldman  
SECRETARY OF  
THE SENATE

  
Marilyn Eddins  
CHIEF CLERK OF THE HOUSE  
OF REPRESENTATIVES





General Assembly  
State of Colorado  
Denver

February 27, 2007

Jeff Shoemaker  
Executive Director  
The Greenway Foundation  
1040 South Gaylord Street, Suite 201  
Denver, Colorado 80209

Dear Mr. Shoemaker:

We the undersigned members of the Colorado General Assembly support the South Platte River Chatfield Reservoir Reallocation Project effort. Each of us represents a portion of Douglas County. The project will create storage space for up to an additional 20,600 acre-feet of water in Chatfield Reservoir, which is owned and operated by the U.S. Army Corps of Engineers. The Colorado Water Conservation Board serves as the local sponsor for the project.

The additional 20,600 acre-feet of water would be shared by upstream users, including South Metro Water Supply Authority, Parker Water and Sanitation District, Centennial Water and Sanitation District, Town of Castle Rock, Roxborough Metropolitan District, Castle Pines North Metropolitan District, Castle Pines Metropolitan District, Perry Park Country Club and Center of Colorado Water Conservancy District, and downstream users, including the City of Aurora, the City of Brighton, Colorado Division of Parks & Outdoor Recreation, Denver Botanic Gardens, Central Colorado Water Conservancy and Western Mutual Ditch Company.

In addition, the project's five instream partners – City and County of Denver, City of Littleton, Denver Water, The Greenway Foundation and Metro Wastewater –would potentially benefit from increased flows in the South Platte River resulting in environmental benefits to the South Platte. The downstream, upstream and instream users are jointly working together to achieve the goal of securing the much needed additional water storage at Chatfield.

The Chatfield Reservoir Reallocation Project will contribute to solving critical multi-use water supply needs in Colorado. This project enjoys broad support from municipal, agricultural and environmental interests, and would:

Chatfield reallocation

Page 2

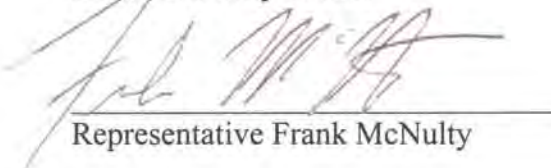
February 27, 2007

- Make use of an existing water storage facility
- Not require construction of a new water storage facility
- Allow water originating from snowmelt and stormwater runoff within the South Platte River Basin to be captured and stored in the Chatfield Reservoir
- Provide additional water for Northeast Colorado farmers to help meet critical irrigation needs
- Help cities and special districts meet drinking water and other municipal needs both above and below Chatfield
- Provide opportunities for environmental and recreational enhancements along the South Platte River in the 53-mile Denver urban river corridor from Chatfield Reservoir to below the Adams County-Weld County line

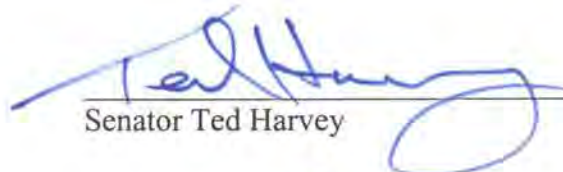
Each of the upstream, instream and downstream groups and agencies involved in management and uses of the South Platte River have a stake in the success of the reallocation effort and are taking advantage of this once-in-a-generation opportunity to maximize the use of water and storage while improving the river. We the undersigned enthusiastically support this project and we request that the federal government join us in their continued support for the reallocation of storage in Chatfield Reservoir.

Sincerely,

  
Representative Mike May  
House Minority Leader

  
Representative Frank McNulty

  
Representative Victor Mitchell

  
Senator Ted Harvey

  
Senator Tom Wiens

STATE OF COLORADO

Bill Owens, Governor

DEPARTMENT OF NATURAL RESOURCES

**DIVISION OF WILDLIFE**

AN EQUAL OPPORTUNITY EMPLOYER

Bruce McCloskey, Director  
6060 Broadway  
Denver, Colorado 80216  
Telephone: (303) 297-1192



*For Wildlife-  
For People*

February 27, 2006

Jeff Shoemaker  
Executive Director  
The Greenway Foundation  
1040 South Gaylord Street, Suite 201  
Denver, Colorado 80209

Dear Mr. Shoemaker:

RE: South Platte River Chatfield Reallocation Environmental/Ecosystem Restoration

On behalf of the Colorado Division of Wildlife (Division), I am writing to support the environmental restoration effort of the Chatfield Reservoir Reallocation Coalition (Coalition). It is our understanding that the Coalition's goal is to devise a plan to maximize the environmental beneficial use of Chatfield Reservoir's available storage capacity for downstream instream flow use. This needs to be accomplished without compromising municipal and agricultural water supply needs or injuring senior water rights. An important component of this unified effort is to identify and evaluate potential environmental options that can be leveraged to partially finance the cost of reallocation. The Coalition represents the type of multi-jurisdictional resource management effort that needs to occur along this reach of river to be able to balance traditional water uses with current environmental and human needs.

The Division has successfully worked with the Army Corp of Engineers on a number of local projects, including the initial grant which made the Coalition's preliminary work possible. In addition, the Division has a long history of supporting and working on environmental restoration efforts on this reach of the South Platte River. Recently, the Division worked on Denver's South Platte River Commission Project for the Mayor's office. The Division will continue to assist the Coalition in its' efforts to identify and evaluate potential environmental benefits related to increased Chatfield Reservoir releases.

Sincerely,

Jay W. Skinner  
Water Resources Unit Manager  
Wildlife Conservation Section  
Colorado Division of Wildlife



**CWCB Resolution – January 2010**  
**In Support of the Chatfield Reservoir Reallocation Project**

WHEREAS, The CWCB has contracted with the Omaha District of the U.S. Army Corps of Engineers (Corps) to investigate the feasibility of reallocating existing storage space within Chatfield Reservoir through a contract known as the Feasibility Cost Share Agreement; and

WHEREAS, the Feasibility Cost Share Agreement outlines the roles and responsibilities of the Corps and the CWCB pertaining to a Feasibility Report/Environmental Impact Statement for the Chatfield Reservoir Reallocation Project (Project); and

WHEREAS, the fundamental scope of the Project is to evaluate the feasibility of converting up to 20,600 acre-feet of existing flood control storage space in the federal facility into water supply storage space (joint conservation pool) for municipal, industrial, agricultural, and other beneficial uses; and

WHEREAS, the Corps has determined that through updated watershed modeling, antecedent flood criteria, and administrative operations of the reservoir during conditions of flooding, water supply storage space can be made available without adversely impacting the existing flood protection function of the facility; and

WHEREAS, A consortium of 15 Water Users signed Letters of Commitment with the CWCB pledging cost-share funding assistance and notice of interest in potentially receiving pre-determined portions of the reallocated storage space within the reservoir; and

WHEREAS, each of the 15 water users would be financially responsible for their portion of the total cost of the reallocated space resulting from the Project and pursuant to a future contract between the CWCB and the Corps; and

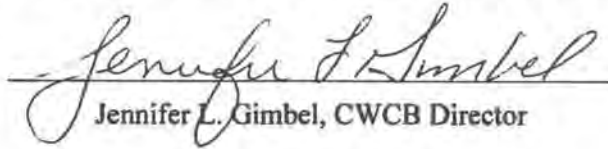
WHEREAS, the Project has broad support from a strong coalition of water supply and environmental interests as well as from a multitude of elected officials, government agencies, non-profit organizations, and other stakeholders throughout Colorado.

NOW THEREFORE BE IT RESOLVED that the Colorado Water Conservation Board supports the Chatfield Reservoir Reallocation Project, which could provide additional raw water supply storage volume within the South Platte River Basin by reallocating up to 20,600 acre-feet of reservoir storage space within the existing federal facility.

BE IT FURTHER RESOLVED that the Colorado Water Conservation Board strongly encourages the Federal Government to work expeditiously in completing and approving the necessary studies and documents in order to obtain a successful Record of Decision that will allow the Chatfield Reservoir Reallocation Project to move forward in a timely manner.

CERTIFICATE

I certify that the foregoing is a true and correct copy of a resolution adopted by a majority vote of the members of the Colorado Water Conservation Board in regular session assembled at Denver, Colorado, on the 26th day of January, 2010, at which a quorum was present.

  
Jennifer L. Gimbel, CWCB Director

February 9, 2009

Jeff Shoemaker  
Executive Director  
The Greenway Foundation  
1040 South Gaylord Street, Suite 201  
Denver, Colorado 80209

Dear Mr. Shoemaker:

On behalf of Douglas County, I am writing this letter in support of the South Platte River Chatfield Reservoir Reallocation Project effort. The project will create storage space for up to an additional 20,600 acre-feet of water in Chatfield Reservoir, which is owned and operated by the U.S. Army Corps of Engineers. Colorado Water Conservation Board serves as the local sponsor for the project.

The additional 20,600 acre-feet of water would be shared by upstream users, including South Metro Water Supply Authority, Centennial Water and Sanitation District, Town of Castle Rock, Mount Carbon Metropolitan District, Roxborough Metropolitan District, Castle Pines North Metropolitan District, Castle Pines Metropolitan District, Perry Park Country Club and Center of Colorado Water Conservancy District, and downstream users, including the City of Aurora, the City of Brighton, Colorado Division of Parks & Outdoor Recreation, Denver Botanic Gardens, Central Colorado Water Conservancy and Western Mutual Ditch Company.

In addition, the project's five instream partners – City and County of Denver, City of Littleton, Denver Water, The Greenway Foundation and Metro Wastewater, would potentially benefit from increased flows in the South Platte River resulting in environmental benefits to the South Platte. The downstream, upstream and instream users are jointly working together to achieve the goal of securing the much needed additional water storage at Chatfield.

The Chatfield Reservoir Reallocation Project will contribute to solving critical multi-use water supply needs in Colorado. This project enjoys broad support from municipal, agricultural and environmental interests, and would:



Jeff Shoemaker  
The Greenway Foundation  
February 9, 2009  
Page 2

- Make use of an existing water storage facility
  - Not require construction of a new water storage facility
  - Allow water originating from snowmelt and stormwater runoff within the South Platte River Basin to be captured and stored in the Chatfield Reservoir
- 
- Provide additional water for Northeast Colorado farmers to help meet critical irrigation needs
  - Help cities and special districts meet drinking water and other municipal needs both above and below Chatfield
  - Provide opportunities for environmental and recreational enhancements along the South Platte River in the 53-mile Denver urban river corridor from Chatfield Reservoir to below the Adams County-Weld County line

Douglas County is supportive of this project and the implementation of the mitigation measures needed to protect key recreational and environmental elements of Chatfield State Park.

Each of the upstream, instream and downstream groups and agencies involved in management and uses of the South Platte River have a stake in the success of the reallocation effort and are taking advantage of this once-in-a-generation opportunity to maximize the use of water and storage while improving the river and maintaining key assets in Chatfield State Park..

Sincerely,



Jack A. Hilbert, Chair  
Board of Commissioners



Douglas County  
**Water Resource Authority**

January 20, 2009

100 Third Street  
Castle Rock, CO 80104

TO WHOM IT MAY CONCERN:

RE: South Platte River Chatfield Reservoir Reallocation Project

The Douglas County Water Resource Authority is pleased to send this letter expressing its continuing support for the South Platte River Chatfield Reservoir Reallocation Project effort.

The project would create storage space for an additional 20,600 acre-feet of water in Chatfield Reservoir, a U.S. Army Corps flood control project. The additional storage space would be shared by upstream users, including the Town of Castle Rock, Castle Pines Metropolitan District, Castle Pines North Metropolitan District, Centennial Water and Sanitation District, Center of Colorado Water Conservancy District, Colorado Division of Parks & Outdoor Recreation, Denver Botanic Gardens, Mount Carbon Metropolitan District, Perry Park Country Club, Roxborough Metropolitan District and South Metro Water Supply Authority, and downstream users, including the City of Aurora, the City of Brighton, Central Colorado Water Conservancy District and Western Mutual Ditch Company.

The project's five instream partners – City and County of Denver, City of Littleton, Denver Water, The Greenway Foundation and Metro Wastewater – would potentially benefit from increased downstream flows in the South Platte River resulting in environmental benefits along the river.

The Colorado Water Conservation Board serves as the local sponsor for the FR/EIS.

The Chatfield Reservoir Reallocation Project will contribute to solving critical multi-use water supply and environmental challenges in Colorado. The project represents the type of multi-jurisdictional resource management effort that needs to occur along the river to balance traditional water uses with environmental benefits.

Sincerely,

A handwritten signature in black ink, appearing to read "Mark Shively", is written over a large, stylized, light-colored "X" or checkmark.

Mark Shively  
Executive Director

March 16, 2007

Jeff Shoemaker  
Executive Director, The Greenway Foundation  
1040 South Gaylord Street, Suite 201  
Denver, Colorado 80209

Dear Mr. Shoemaker:

On behalf of the Metro Basin Roundtable, I write to support the South Platte River Chatfield Reservoir Reallocation Project effort. The Metro Basin Roundtable supports this critically important project. Recently, the Metro Basin Roundtable took official action endorsing supplemental funding to help with the Chatfield Environmental Impact Statement.

The project as proposed would create storage space for an additional 20,600 acre-feet of water in Chatfield Reservoir, which is a U.S. Army Corps of Engineers flood control project. The Colorado Water Conservation Board serves as the local sponsor for the required EIS.

The additional 20,600 acre-feet of water would be shared by upstream users, including Colorado Division of Parks & Outdoor Recreation, Denver Botanic Gardens, South Metro Water Supply Authority, Parker Water and Sanitation District, Centennial Water and Sanitation District, Town of Castle Rock, Roxborough Metropolitan District, Castle Pines North Metropolitan District, Castle Pines Metropolitan District, Perry Park Country Club and Center of Colorado Water Conservancy District, and downstream users, including the City of Aurora, the City of Brighton, Central Colorado Water Conservancy and Western Mutual Ditch Company.


In addition, the project's five instream partners – City and County of Denver, City of Littleton, Denver Water, The Greenway Foundation and Metro Wastewater – would potentially benefit from increased flows in the South Platte River resulting in environmental benefits along the South Platte. The downstream, upstream and instream users are jointly working together to achieve the goal of additional water storage at Chatfield.

The Chatfield Reservoir Reallocation Project will contribute to solving critical multi-use water supply and environmental problems in Colorado. This project enjoys broad support from municipal, agricultural and environmental interests, and would:

- Make use of an existing water storage facility
- Not require construction of a new water storage facility
- Allow water originating from snowmelt and stormwater runoff within the South Platte River Basin to be stored in the Chatfield Reservoir
- Provide additional water for Northeast Colorado farmers to help meet critical irrigation needs
- Help cities and special districts meet drinking water and other municipal needs both above and below Chatfield
- Provide opportunities for environmental and recreational enhancements along the South Platte River in the 53-mile Denver urban river corridor from Chatfield Reservoir to below the Adams County-Weld County line

Each of the upstream, instream and downstream groups and agencies involved in management and uses of the South Platte River have a stake in the success of the reallocation effort and are taking advantage of this once-in-a-generation opportunity to maximize the use of water and storage while improving the river's environment.

Sincerely,



Doug Scott  
Chairman, Metro Basin Roundtable





**South Suburban  
PARKS AND RECREATION**

**Administrative Office**  
6631 S. University Blvd.  
Centennial, CO 80121-2913

phone 303.798.5131  
fax 303.798.3030  
[www.sspr.org](http://www.sspr.org)

**Board of Directors**

Jerry D. Call  
Chairman  
Dennis S. Reynolds  
Kay C. Geitner  
Phillip J. Cernanec  
Harold L. Neal

**Executive Director**

David A. Lorenz

February 5, 2008

Jeff Shoemaker, Executive Director  
The Greenway Foundation  
1040 South Gaylord Street, Suite 201  
Denver, CO 80201

RE: South Platte River Chatfield Reallocation Project

Dear Mr. Shoemaker:

On behalf of the South Suburban Park and Recreation District, we are pleased to send this letter in support of the Chatfield Reallocation Project. As proposed, the Project would create storage space for an additional 20,600 acre-feet of water in Chatfield Reservoir, a U.S. Army Corps flood control project.

The District is the parks and open space managing agency of South Platte Park for the City of Littleton, which is also in support of the reallocation project. The Park encompasses 878 acres of previously gravel-mined land directly below Chatfield Reservoir, a two-mile stretch of the South Platte River, and the Carson Nature Center. The District is very interested and supportive of the restoration and preservation of aquatic, riparian, and upland habitats along the South Platte River in the South Denver Metropolitan area. We encourage an environmental impact study with high levels of due diligence and careful consideration of ramifications, recommendations, and appropriate mitigations.

The Chatfield Reservoir Reallocation Project is a model of multi-jurisdictional resource management effort that needs to occur along the river to balance traditional water uses with environmental benefits. We urge its support by Colorado's congressional delegation.

Sincerely,

David A. Lorenz  
Executive Director

DAL/ds



## The South Platte Basin Roundtable

C/O Board of County Commissioners - 915 10<sup>th</sup> Street - P. O. Box 758 - Greeley CO 80632  
Telephone: 970-336-7204 Fax: 970-352-0242

### OFFICERS

BILL JERKE, Chair  
JIM YAHN, 1<sup>st</sup> Vice-Chair  
FRED WALKER, 2<sup>nd</sup> Vice Chair  
LISA McVICKER, Recorder  
IBCC REPRESENTATIVES  
MIKE SHIMMIN  
ERIC WILKINSON

February 20, 2007

Jeff Shoemaker  
Executive Director  
The Greenway Foundation  
1040 South Gaylord Street, Suite 201  
Denver CO 80209

Re: South Platte River Chatfield Reservoir Reallocation Project

Dear Mr. Shoemaker:

On behalf of the South Platte Basin Roundtable, I write to support the South Platte River Chatfield Reservoir Reallocation Project effort. The South Platte Basin Roundtable supports this critically important project. Recently, the Metro Basin Roundtable took official action endorsing supplemental funding to help with the Chatfield Environmental Impact Statement.

The project as proposed would create storage space for an additional 20,600 acre-feet of water in Chatfield Reservoir, which is a U.S. Army Corps of Engineers flood control project. The Colorado Water Conservation Board serves as the local sponsor for the required EIS.

The additional 20,600 acre-feet of water would be shared by upstream users, including Colorado Division of Parks & Outdoor Recreation, Denver Botanic Gardens, South Metro Water Supply Authority, Parker Water and Sanitation District, Centennial Water and Sanitation District, Town of Castle Rock, Roxborough Metropolitan District, Castle Pines North Metropolitan District, Castle Pines Metropolitan District, Perry Park Country Club and Center of Colorado Water Conservancy District, and downstream users, including the City of Aurora, the City of Brighton, Central Colorado Water Conservancy, and Western Mutual Ditch Company.

In addition, the project's five instream partners – City and County of Denver, City of Littleton, Denver Water, The Greenway Foundation and Metro Wastewater – would potentially benefit from increased flows in the South Platte River resulting in environmental benefits along the South Platte. The downstream, upstream and instream users are jointly working together to achieve the goal of additional water storage at Chatfield.


Jeff Shoemaker  
Page 2  
February 20, 2007

The Chatfield Reservoir Reallocation Project will contribute to solving critical multi-use water supply and environmental problems in Colorado. This project enjoys broad support from municipal, agricultural and environmental interests, and would:

- Make use of an existing water storage facility
- Not require construction of a new water storage facility
- Allow water originating from snowmelt and storm water runoff within the South Platte River Basin to be stored in the Chatfield Reservoir
- Provide additional water for Northeast Colorado farmers to help meet critical irrigation needs
- Help cities and special districts meet drinking water and other municipal needs both above and below Chatfield
- Provide opportunities for environmental and recreational enhancements along the South Platte River in the 53-mile Denver urban river corridor from Chatfield Reservoir to below the Adams County-Weld County line

Each of the upstream, instream, and downstream groups and agencies involved in management and uses of the South Platte River have a stake in the success of the reallocation effort and are taking advantage of this once-in-a-generation opportunity to maximize the use of water and storage while improving the river's environment.

Sincerely,



Bill Jerke  
Chairman  
South Platte Basin Roundtable





## URBAN DRAINAGE AND FLOOD CONTROL DISTRICT

David W. Lloyd, Executive Director  
2480 W. 26th Avenue, Suite 156B  
Denver, CO 80211-5304

Telephone 303-455-6277  
Fax 303-455-7880  
[www.udfcd.org](http://www.udfcd.org)

February 28, 2006

Jeff Shoemaker  
Executive Director  
The Greenway Foundation  
1040 South Gaylord Street, Suite 201  
Denver, Colorado 80209

Dear Mr. Shoemaker:

RE: Support for South Platte River Chatfield  
Reallocation Environmental/Ecosystem Restoration

The Urban Drainage and Flood Control District is pleased to support the South Platte River Chatfield Reallocation Environmental/Ecosystem Restoration Coalition effort. The Coalition's goal is to maximize the beneficial use of the available Chatfield Reservoir capacity for purposes of meeting in-stream needs of the South Platte River through the Denver metropolitan area, without compromising municipal and agricultural water supply needs or flood channel capacity. An important ongoing component of this effort is to identify and evaluate potential environmental options that can be leveraged to partially finance the cost of reallocation.

Over the last 35 years the District and many other local governments have recognized the value of the river and have worked hard to improve the South Platte River environment within the Denver Metropolitan area. We now support the Coalition's efforts in working with the U.S. Army Corps of Engineers and the Colorado congressional delegation to identify and evaluate potential environmental benefits related to increased Chatfield Reservoir releases – releases that will be conveyed through the metropolitan Denver urban corridor to downstream water users. The Coalition represents the type of multi-jurisdictional resource management effort that needs to occur along the river to balance traditional water uses with environmental and less-traditional human needs.

Sincerely,

David W. Lloyd, P.E.  
Executive Director

DWL/BWK/mc

## **RESOLUTION**

### **RE: EXPRESSION OF SUPPORT FOR CHATFIELD RESERVOIR REALLOCATION PROJECT**

**WHEREAS**, the Board of County Commissioners of Weld County, Colorado, pursuant to Colorado statute and the Weld County Home Rule Charter, is vested with the authority of administering the affairs of Weld County, Colorado, and

**WHEREAS**, all water users in the state of Colorado, and in particular Weld County, are dependent upon the effective utilization of limited supplies of water that predominantly result from runoff derived from snowmelt, which frequently moves at a high rate of flow and occurs during a relatively short period in the spring of each year, and

**WHEREAS**, providing water for the beneficial use of the citizens of Colorado requires surface water storage capacity to capture runoff for later delivery to users, and

**WHEREAS**, the United States Army Corps of Engineers ("USACE") has determined that Chatfield Reservoir can accommodate 20,600 acre-feet of storage for municipal and other purposes without compromising its flood control function, and

**WHEREAS**, additional water storage should be pursued through a reallocation project for the improvement and rehabilitation of existing structures, and

**WHEREAS**, the reallocation project at Chatfield Reservoir will:

- a. Allow water originating from snowmelt and storm water runoff within the South Platte River Basin to be stored in Chatfield Reservoir.
- b. Provide additional water for Northeast Colorado farmers, including those in Weld County, to help meet critical irrigation needs.
- c. Help several water providers meet drinking water and other municipal needs, both above and below Chatfield Reservoir.
- d. Provide opportunities for environmental and recreational enhancements along the South Platte River in the 53-mile urban corridor from Chatfield Reservoir to below the Adams-Weld County line, and

**WHEREAS**, the majority of participants in the reallocation project have existing water rights that provide for the capture, storage, and use of water available to the South Platte River above Denver without injury to other water rights, and

**WHEREAS**, the municipal participants in the reallocation project have implemented, and will continue to implement, measures to increase the benefits of water savings through water conservation programs and reuse projects, and

**WHEREAS**, the 15 participants in the reallocation project and the state of Colorado through the Colorado Water Conservation Board ("CWCB"), have contributed more than \$1.5 million in a cooperative regional effort, and

**WHEREAS**, Colorado law recognizes the right to capture, store, and move water from where it flows to where it is needed, and

**WHEREAS**, Section 6 of Article XVI of the Colorado Constitution says: "The right to divert the unappropriated waters of any natural stream to beneficial uses shall never be denied.", and

**WHEREAS**, the once-in-a-generation opportunity to expand the use of the existing Chatfield Reservoir facility enjoys broad support from municipal, agricultural, and environmental interests, and

**WHEREAS**, the CWCB and the USACE have jointly sponsored and are presently engaged in the Chatfield Reservoir reallocation feasibility study and environmental impact statement process to determine the best way of reallocating existing flood protection storage space to other uses, and

**WHEREAS**, for the above-stated reasons, the Board wishes to express its support for the Chatfield Reservoir reallocation project.

**NOW, THEREFORE, BE IT RESOLVED** by the Board of County Commissioners of Weld County, Colorado, that it hereby expresses its support for the Chatfield Reservoir reallocation project.

The above and foregoing Resolution was, on motion duly made and seconded, adopted by the following vote on the 11th day of April, A.D., 2007.

ATTEST:

Weld County Clerk to the Board

BY:

Deputy Clerk to the Board

APPROVED AS TO FORM:

County Attorney

Date of signature: 4/17/07

BOARD OF COUNTY COMMISSIONERS  
WELD COUNTY, COLORADO

EXCUSED

David E. Long, Chair

William H. Jerke, Pro Tem

William F. Garcia

EXCUSED

Robert D. Masden

Douglas Rademacher

2007-1019  
BC0037





February 3, 2009

TO WHOM IT MAY CONCERN:

RE: South Platte River Chatfield Reservoir Reallocation Project

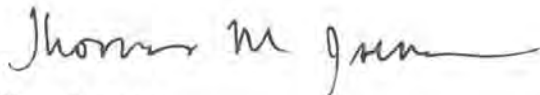
The Nature Conservancy is pleased to send this letter of support for the South Platte River Chatfield Reservoir Reallocation Project effort.

The project would create storage space for an additional 20,600 acre-feet of water in Chatfield Reservoir, a U.S. Army Corps flood control project. The additional storage space would be shared by a number of water users both upstream and downstream of the reservoir. The project also includes five instream partners – City and County of Denver, City of Littleton, Denver Water, The Greenway Foundation and Metro Wastewater – who would potentially benefit from increased downstream flows in the South Platte River resulting in environmental benefits along the river.

While The Nature Conservancy has not engaged in the detailed environmental analysis of impacts at the Chatfield State Park or the downstream environment of the South Platte River, we commend this project for two primary reasons: 1) the project proponents have found a creative use of existing infrastructure rather than resorting to building damaging new infrastructure; and 2) the process for the Chatfield Reallocation Project can serve as a model for water supply planning in Colorado, in that it is inclusive of all stakeholders and that it seeks to provide multiple project benefits, including environmental.

The Chatfield Reservoir Reallocation Project will contribute to solving critical multi-use water supply and environmental challenges in Colorado. While we cannot comment on the specific environmental impacts of the project at this time, we commend this project and the project proponents for the creative and inclusive approach to designing water supply solutions. The project represents the type of multi-jurisdictional resource management effort that needs to occur along the river to balance traditional water uses with environmental benefits. We will continue to work with project partners to learn more about the specific downstream flow regime and environmental mitigation at the reservoir site as the project moves forward.

Sincerely,



Tom Iseman  
Water Program Manager  
The Nature Conservancy of Colorado





*Andrew Peternell  
Director, Colorado Water Project*

October 13, 2006

Jeff Shoemaker, Executive Director  
The Greenway Foundation  
1040 South Gaylord Street, Suite 201  
Denver, Colorado 80209

Re: Chatfield Reservoir Reallocation Project

Dear Mr. Shoemaker,

Trout Unlimited's Colorado Water Project ("TU") supports the ongoing analysis of a possible reallocation of the storage space in Chatfield Reservoir. The goal of the reallocation, as TU understands it, would be to maximize the use of the reservoir capacity and enable releases from the reservoir that would create improved cold- and warm-water environments in the South Platte River through the Denver metropolitan area. These releases would also benefit municipal and agricultural water users.

An important component of this effort is to identify and evaluate the in-stream environmental benefits that would result from particular release regimes. To achieve this goal, TU urges Colorado's congressional delegation to support an Army Corps of Engineers Energy and Water Development appropriation for the Chatfield Reservoir environmental impact statement and related studies.

Numerous interests, including water users and conservation groups, have a stake in the success of the reallocation effort and seek to take advantage of this opportunity to maximize the use of the river while improving the river's environment.

Sincerely,

Andrew Peternell

cc: Tracy Bouvette

***Trout Unlimited: America's Leading Coldwater Fisheries Conservation Organization***  
Colorado Office: 1320 Pearl Street, Suite 320, Boulder, Colorado 80302  
PHONE: (303) 440-2937 FAX: (303) 440-7933 EMAIL: [dpeternell@tu.org](mailto:dpeternell@tu.org)





January 30, 2009

RE: Chatfield Reservoir Reallocation Project

To Whom It May Concern:

Western Resource Advocates ("WRA") is pleased to send this letter of support for the Chatfield Reservoir Reallocation Project, an alternative under review pursuant to the National Environmental Policy Act in the soon to be released Draft Environmental Impact Statement. WRA—a regional non-profit organization that works to protect the West's land, air, and water resources—serves as a Technical Advisor to the Project.

The Chatfield Reservoir Reallocation Project will contribute to solving critical multi-use water supply needs along the South Platte River in northeastern Colorado. The Project enjoys broad support from municipal, agricultural and environmental interests. It would:

- Make use of an existing water storage facility to meet additional water demands;
- Avoid the controversy and cost of constructing a new water storage facility;
- Reduce cities' and special districts' dependence on non-renewable groundwater; and
- Provide for enhanced in-stream flows resulting in environmental and recreational benefits, particularly in drought years, along the South Platte in the 53-mile Denver urban river corridor from Chatfield Reservoir to below the Adams County-Weld County line.

The Chatfield Reservoir Reallocation Project exemplifies the potential of supply-side efficiency strategies to minimize the need to develop new water supplies which are often expensive, controversial, and environmentally damaging. WRA supports the Chatfield Reservoir Reallocation Project as a positive step toward a more sustainable water future.

Sincerely,

Bart P. Miller  
Water Program Director

## City of Aurora

Utilities Department  
Water Resources  
15151 E. Alameda Parkway, Suite 3600  
Aurora, Colorado 80012  
Phone: 303-739-7275  
[www.auroragov.org/water](http://www.auroragov.org/water)



February 27, 2006

Jeff Shoemaker  
Executive Director  
The Greenway Foundation  
1040 South Gaylord Street, Suite 201  
Denver, Colorado 80209

Dear Mr. Shoemaker:


RE: South Platte River Chatfield Reallocation Environmental/Ecosystem Restoration

Aurora Water writes this letter in support of the South Platte River Chatfield Reallocation Environmental/Ecosystem Restoration Coalition effort. The Coalition's goal is to maximize the beneficial use of the available Chatfield Reservoir capacity for purposes of meeting the instream needs of the South Platte River through the Denver metropolitan area, without compromising municipal and agricultural water supply needs. An important ongoing component of this effort is to identify and evaluate potential reservoir operational scenarios with environmental benefits that can be leveraged to obtain a partial waiver of costs associated with the reallocation project.

Each of the upstream, instream and downstream groups and agencies involved in management and uses of the South Platte River have a stake in the success of the reallocation effort and are taking advantage of this unique opportunity to maximize the use of the river while improving the river's environment.

Aurora supports the Coalition's efforts in working with the U.S. Army Corps of Engineers and the Colorado congressional delegation to identify and evaluate potential environmental benefits related to increased Chatfield Reservoir releases – releases that will be conveyed through the metropolitan Denver urban corridor to downstream water users. The Coalition represents the type of multi-jurisdictional resource management effort that needs to occur along the river to balance traditional water uses with environmental and less-traditional human needs.

Sincerely,

  
Mark Pifher  
Deputy Director, Aurora Water

cc: Richard Vidmar  
Chatfield Reallocation File



June 19, 2006

Jeff Shoemaker  
Executive Director  
The Greenway Foundation  
1040 South Gaylord Street, Suite 201  
Denver, Colorado 80209

Dear Mr. Shoemaker:

RE: South Platte River Chatfield Reallocation Environmental/Ecosystem Restoration

On behalf of the City of Brighton, this is to express our support for the South Platte River Chatfield Reallocation Environmental/Ecosystem Restoration Coalition effort. The Coalition's goal is to maximize the beneficial use of the available Chatfield Reservoir capacity for purposes of meeting the instream needs of the South Platte River through the Denver metropolitan area, without compromising municipal and agricultural water supply needs. An important ongoing component of this effort is to identify and evaluate potential environmental options that can be leveraged to partially finance the cost of reallocation.

To achieve these goals, we support the following Coalition project objectives:

- Urge Colorado congressional delegation support for an U.S. Army Corps of Engineers (USACE) FY2007 Energy and Water Development appropriation of \$500,000 for the Chatfield EIS and related work (Chatfield, Cherry Creek and Bear Creek Reservoirs, Colorado, USACE Omaha District, General Investigations Study) to further completion of the EIS;
- Urge swift passage of the Water Resources Development Act reauthorization;
- Promote understanding with the Colorado congressional delegation of the need to engage the U.S. Army Corps of Engineers on an active and fruitful policy discussion to develop new or revised environmental metrics and criteria for an urban and/or suburban river corridor. This may eventually lead to the need for delegation support for new or revised USACE policies.



Each of the upstream, instream and downstream groups and agencies involved in management and uses of the South Platte River have a stake in the success of the reallocation effort and are taking advantage of this once-in-a-generation opportunity to maximize the use of the river while improving the river's environment.

We support the Coalition's efforts in working with the U.S. Army Corps of Engineers and the Colorado congressional delegation to (1) ensure that increased Chatfield Reservoir releases benefit upstream users and (2) identify and evaluate potential environmental benefits related to increased Chatfield Reservoir releases – releases that will be conveyed through the metropolitan Denver urban corridor to downstream water users. The Coalition represents the type of multi-jurisdictional resource management effort that needs to occur along the river to balance traditional water uses with environmental and less-traditional human needs.

Sincerely,



Janice E. Pawlowski  
Mayor



January 27, 2009

Jeff Shoemaker  
Executive Director  
The Greenway Foundation  
1040 South Gaylord Street, Suite 201  
Denver, Colorado 80209

Dear Mr. Shoemaker:

RE: South Platte River Chatfield Reallocation Environmental/Ecosystem Restoration

On behalf of the Central Colorado Water Conservancy District, I write to support the South Platte River Chatfield Reallocation Environmental/Ecosystem Restoration Coalition effort. The Coalition's goal is to maximize the beneficial use of the available Chatfield Reservoir capacity for purposes of meeting the instream needs of the South Platte River through the Denver metropolitan area, without compromising municipal and agricultural water supply needs. An important ongoing component of this effort is to identify and evaluate potential environmental options that can be leveraged to partially finance the cost of reallocation. Each of the upstream, instream and downstream groups and agencies involved in management and uses of the South Platte River have a stake in the success of the reallocation effort and are taking advantage of this once in a generation opportunity to maximize the use of the river while improving the river's environment.

We support the Coalition's efforts in working with the U.S. Army Corps of Engineers and the Colorado congressional delegation to identify and evaluate potential environmental benefits related to increased Chatfield Reservoir releases – releases that will be conveyed through the metropolitan Denver urban corridor to downstream water users. The Coalition represents the type of multi-jurisdictional resource management effort that needs to occur along the river to balance traditional water uses with environmental and less-traditional human needs.

Sincerely,

Thomas V. Cech  
Executive Director



**Denver Botanic Gardens  
at Chatfield**

8500 Deer Creek Canyon Road  
Littleton, Colorado 80128-6900  
Phone 303-973-3705  
www.botanicgardens.org

**2006 BOARD OF TRUSTEES**

**CHAIRMAN**

Mr. Harold R. Logan, Jr.

**CHAIR ELECT**

Mr. Jerry D. Ladd

**VICE CHAIRMEN**

Mr. Richard Mandelson

Ms. Carol K. Tierney

Mr. Scott C. Wylie

**TREASURER**

Mr. George G. Hutchison

**SECRETARY**

Mrs. Dennis E. Baldwin

**ASSISTANT TREASURER**

Mr. John M. Couzens

Mr. Richard Mandelson

**ASSISTANT SECRETARY**

Mrs. Heather Miller

**LIFE TRUSTEES**

Mr. Edward P. Connors

Mr. Richard A. Kirk

Dr. Moras L. Shubert

Mrs. Thomas E. Taplin

**TRUSTEES EMERITI**

Mr. Newell M. Grant

Mr. D. Deane Hall

Mrs. William R. Thurston

**TRUSTEES**

Ms. Kim M. Bailey

Mr. Richard Bell

Mr. James Boyle

Mrs. Janet Burgess

Mrs. Janette Chase

Ms. Doris Duckworth

Mr. Paul Dudzie

Mrs. Mary Elliman

Mr. John Freyer

Mr. Howard Gelt

Mr. Paul V. Grenney

Mr. Steven H. Katich

Mr. Dominic Lloyd

Mrs. Courtney Marsters

Mr. Marc D. McCall

Ms. Elizabeth H. McCann

Mr. Dale M. Mingilton

Mr. Greg Moveman

Mr. Lee Nelson

Mr. Reynie Ortiz

Mr. Russ Schmulh

Ms. Judy Sellers

Ms. Heather Tooker

Mr. Robert G. Willis

**COO & Interim CEO**

Ms. Linda K. Greene

Jeff Shoemaker

Executive Director

The Greenway Foundation

1040 South Gaylord Street, Suite 201

Denver, Colorado 80209

Dear Mr. Shoemaker:

RE: South Platte River Chatfield Reservoir Reallocation Project

On behalf of Denver Botanic Gardens at Chatfield (DBG at Chatfield), we write to support the South Platte River Chatfield Reservoir Reallocation Project effort.

The Coalition's goal is to maximize beneficial uses of the available reservoir capacity for purposes of meeting in-stream needs of the South Platte River through the Denver metropolitan area, without compromising municipal and agricultural water supply needs. An important ongoing component of this effort is to identify and evaluate potential environmental options that can be leveraged to partially finance the cost of reallocation.

To achieve these goals, we support the following Coalition project objectives:

- Urge Colorado congressional delegation support for an U.S. Army Corps of Engineers (USACE) Energy and Water Development appropriation for the Chatfield EIS and related work (Chatfield, Cherry Creek and Bear Creek Reservoirs, Colorado, USACE Omaha District General Investigations Study) to further completion of the EIS.
- Urge swift passage of the Water Resources Development Act reauthorization bill which includes language specifically for the South Platte River;
- Promote understanding with the Colorado congressional delegation of the need to engage the U.S. Army Corps of Engineers on an active and fruitful policy discussion to develop new or revised environmental metrics and criteria for an urban and/or suburban river corridor. This may eventually lead to the need for delegation support for new or revised USACE policies.

Each of the upstream, in-stream and downstream groups and agencies involved in management and uses of the South Platte River have a stake in the



success of the reallocation effort. We all are taking advantage of this once-in-a-generation opportunity to maximize the use of the river while improving the river's environment.

We support the Coalition's efforts in working with the U.S. Army Corps of Engineers and the Colorado congressional delegation to:

- (1) Ensure that increased Chatfield Reservoir releases benefit upstream users, and
- (2) Identify and evaluate potential environmental benefits related to increased Chatfield Reservoir releases — releases that will be conveyed through the metropolitan Denver urban corridor to downstream water users.

The Coalition represents the type of multi-jurisdictional resource management effort that needs to occur along the river to balance traditional water uses with environmental and less-traditional human needs.

Sincerely,

A handwritten signature in dark ink, appearing to read "Larry Vickerman". The signature is fluid and cursive, with the first name "Larry" and last name "Vickerman" clearly distinguishable.

Larry Vickerman, Director  
Denver Botanic Gardens at Chatfield

cc: Denver Botanic Gardens  
Bill Ruzzo

-----**WESTERN MUTUAL DITCH COMPANY**-----

21454 WCR 33; LaSalle, CO 80645

970-539-0445

970-284-5030 FAX

[fsdefi@msn.com](mailto:fsdefi@msn.com) EMAIL

January 27, 2009

Jeff Shoemaker  
Executive Director  
The Greenway Foundation  
1040 South Gaylord Street, Suite 201  
Denver, Colorado 80209

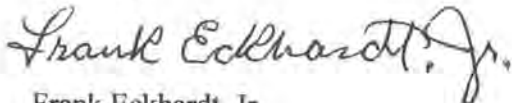
Dear Mr. Shoemaker:

RE: South Platte River Chatfield Reallocation Environmental/Ecosystem Restoration

On behalf of the Western Mutual Ditch Company, I write to support the South Platte River Chatfield Reallocation Environmental/Ecosystem Restoration Coalition effort. The Coalition's goal is to maximize the beneficial use of the available Chatfield Reservoir capacity for purposes of meeting the instream needs of the South Platte River through the Denver metropolitan area, without compromising municipal and agricultural water supply needs. An important ongoing component of this effort is to identify and evaluate potential environmental options that can be leveraged to partially finance the cost of reallocation. Each of the upstream, instream and downstream groups and agencies involved in management and uses of the South Platte River have a stake in the success of the reallocation effort and are taking advantage of this once in a generation opportunity to maximize the use of the river while improving the river's environment.

We support the Coalition's efforts in working with the U.S. Army Corps of Engineers and the Colorado congressional delegation to identify and evaluate potential environmental benefits related to increased Chatfield Reservoir releases – releases that will be conveyed through the metropolitan Denver urban corridor to downstream water users. The Coalition represents the type of multi-jurisdictional resource management effort that needs to occur along the river to balance traditional water uses with environmental and less-traditional human needs.

Sincerely,



Frank Eckhardt, Jr.  
President  
Western Mutual Ditch Company

*John W. Hickenlooper*  
MAYOR



# *City and County of Denver*

OFFICE OF THE MAYOR  
CITY AND COUNTY BUILDING  
DENVER, COLORADO • 80202-5390  
TELEPHONE: 720-865-9000 • FAX: 720-865-9040  
TTY/TTD: 720-865-9010

March 2, 2006

Jeff Shoemaker, Executive Director  
The Greenway Foundation  
1040 South Gaylord Street, Suite 201  
Denver, CO 80209

Dear Mr. Shoemaker:

RE: South Platte River Chatfield Reallocation Environmental/Ecosystem Restoration

I am writing on behalf of the City and County of Denver to support the efforts of the South Platte River Chatfield Reallocation Environmental/Ecosystem Restoration Coalition. The Coalition's goal is to maximize the beneficial use of the available Chatfield Reservoir capacity for purposes of meeting the instream needs of the South Platte River through the Denver metropolitan area, without compromising municipal and agricultural water supply needs. An important ongoing component of this effort is to identify and evaluate potential environmental options that can be leveraged to partially finance the cost of reallocation. The City and County of Denver and other advocates of this project are working with the Colorado Congressional Delegation to seek changes to the original Chatfield authorization which will specifically include environmental restoration benefits as an allowable component for water storage.

Each of the upstream, instream and downstream groups and agencies involved in management and uses of the South Platte River have a stake in the success of the reallocation effort and are taking advantage of this once in a generation opportunity to maximize the use of the river while improving the river's environment.

We support the Coalition's efforts in working with the U.S. Army Corps of Engineers and the Colorado congressional delegation to identify and evaluate potential environmental benefits related to increased Chatfield Reservoir releases – releases that will be conveyed through the metropolitan Denver urban corridor to downstream water users. The Coalition represents the type of multi-jurisdictional resource management effort that needs to occur along the river to balance traditional water uses with environmental and less-traditional human needs.

Thank you in advance for your consideration of this request. If you have any questions, please contact Amy Mueller at (720) 865-8718 or [amy.mueller@ci.denver.co.us](mailto:amy.mueller@ci.denver.co.us), or Mike Dino with Patton Boggs at (303) 594-8818 or [mdino@pattonboggs.com](mailto:mdino@pattonboggs.com).

Sincerely,

A handwritten signature in dark ink, appearing to read "John W. Hickenlooper".

John W. Hickenlooper  
Mayor





## Denver Board of Water Commissioners

George B. Beardsley, President  
Denise S. Maes, 1st Vice President  
Thomas A. Gougeon  
Penfield W. Tate, III  
Harris D. Sherman

Hamlet J. Barry, III, Manager

1600 W 12th Avenue  
Denver, CO 80204-3412  
303-628-6000  
Fax 303-628-6509  
chips.barry@denverwater.org  
www.denverwater.org

February 28, 2006

General Don T. Riley  
Director of Civil Works  
U.S. Army Corps of Engineers  
441 G Street, NW  
Washington, DC 20314

Dear General Riley:

I am writing to offer Denver Water's support to the Corps of Engineer's Chatfield Reservoir storage reallocation project, and specifically to that portion of the reallocation that will provide water flow in the Denver Metro reach of the South Platte River. I believe the reallocation is a unique opportunity to provide environmental and recreational benefits to the river that may otherwise be unobtainable.

Denver Water has supported and contributed to efforts to enhance the metro reach of the South Platte for over a decade. We were directly involved in the South Platte River Corridor Project, sponsored by the Corps, the City of Denver, Colorado Division of Wildlife, Environmental Protection Agency, and others in the mid-1990s. One of the conclusions of the project was that "water of sufficient quantity and quality is needed at the appropriate times to support practical urban uses of the river and to support the plants, fish, and wildlife appropriate for this particular urban river".

It is a great challenge to develop creative ways to provide water for environmental enhancement of urban rivers in the West. As you know, water in the semi-arid region of Colorado is scarce, and each drop is closely guarded and fought over. The reallocation project offers a unique opportunity to provide water for environmental enhancement, while also providing recreational benefits as well as water for municipal and agricultural needs. Through a creative agreement reached by water users below Chatfield Reservoir, water released from the users' 'Downstream Cooperative' pool in Chatfield will meet several demands. This kind of efficient and cooperative water use is vital as entities throughout the Western U.S. seek to better manage water resources.

It is my understanding that managing reallocated storage in Chatfield to maximize environmental benefits is only possible if the Corps agrees to waive a portion of the capital reimbursement costs assigned to the Downstream Cooperative group. The Downstream

General Don T. Riley  
February 28, 2006  
Page 2

Cooperative group will commit to using its water rights and capacity in Chatfield for instream environmental benefits, in return for a partial waiving of the capital reimbursement costs. I urge the Corps to consider waiving those costs so this project can succeed. It is very likely the only opportunity that will become available to meet the environmental needs of the urban South Platte River.

Sincerely,

A handwritten signature in black ink, appearing to read 'H. J. Barry', with a stylized, flowing script.

H. J. Barry  
Manager



# THE GREENWAY FOUNDATION

Planning, Building, Protecting and Enhancing Communities, Parks, Trails and Waterways  
Since 1974

Tuesday, January 20, 2009

**CHAIRMAN**

Joe Shoemaker

**VICE CHAIRMAN**

Kip Stastny

Bill Avery

Jon Bridges

Bar Chadwick

Larry Elrod

Deborah Gerard

John Moran

Cynthia Nagel

Gary Roffe

Paula Sandoval

Peter Van Arsdale

**EXECUTIVE DIRECTOR**

Jeff Shoemaker

**SPECIAL EVENTS**

**COORDINATOR**

Cindy Shoemaker

TO WHOM IT MAY CONCERN:

RE: South Platte River Chatfield Reallocation Environmental/Ecosystem Restoration

On behalf of the Greenway Foundation, I am writing to support the South Platte River Chatfield Reallocation Environmental/Ecosystem Restoration Coalition effort. The Coalition's goal is to maximize the beneficial use of the available Chatfield Reservoir capacity for purposes of meeting the instream needs of the South Platte River through the Denver metropolitan area, without compromising municipal and agricultural water supply needs. An important ongoing component of this effort is to identify and evaluate potential environmental options that can be leveraged to partially finance the cost of this reallocation.

Each of the upstream, instream and downstream groups and agencies involved in the management and uses of the South Platte River have a stake in the success of the reallocation effort and are taking advantage of this once-in-a-generation opportunity to maximize the use of the River while improving the its environmental potential.

We support the Coalition's efforts in working with the U.S. Army Corps of Engineers and the Colorado congressional delegation to identify and evaluate potential environmental benefits related to increased Chatfield Reservoir releases – releases that will be conveyed through the metropolitan Denver urban corridor to downstream water users. The Coalition represents the type of multi-jurisdictional resource management effort that needs to occur along the South Platte to balance traditional water uses with environmental and less-traditional human needs.

Sincerely,

Jeff Shoemaker  
Executive Director

**"A river is more than an amenity, it is a treasure" Justice WM. O Douglas**

The Greenway Foundation is supported in part by  
the Scientific and Cultural Facilities District as well  
as a gift from the Estate of Robert V. and Billie Mae Behrent.

5299 DTC Blvd., Suite 710, Greenwood Village, CO 80111

303.455.7109

FAX: 303.455.7234

[www.greenwayfoundation.org](http://www.greenwayfoundation.org)



**City Manager**

2255 West Berry Avenue  
Littleton, Colorado 80165  
303-795-3720  
FAX 303-795-3818

February 24, 2006

Mr. Jeff Shoemaker  
Executive Director  
The Greenway Foundation  
1040 South Gaylord Street, Suite 201  
Denver, CO 80209

Re: South Platte River Chatfield Reallocation Environmental/Ecosystem Restoration

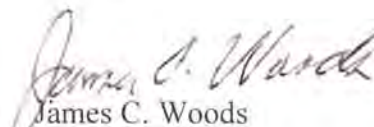
Dear Mr. Shoemaker:

On behalf of the City of Littleton, I am writing to support the South Platte River Chatfield Reallocation Environmental/Ecosystem Restoration Coalition effort. The City of Littleton has a long history of working to balance flood control, municipal and agricultural uses, and environmental enhancement on the South Platte River. In 1972, the City was instrumental in working with Colorado's congressional representatives to establish the South Platte Park, one of the first non-structural flood control projects initiated in the United States by the U.S. Army Corp of Engineers.

The City currently owns 650 acres of land along both sides of a 2-mile stretch of the South Platte River directly below Chatfield Dam and State Park. Over a 30-year period, the City has invested millions of dollars in boating, fishing, recreation, wildlife habitat, and environmental education facilities in the South Platte Park. We are also a contract customer of the Denver Water Board which provides potable water to our 40,000 residents and 3000 business and industrial users. Consequently, the City's political leadership has a good grasp of the cooperation, ingenuity, and innovation required to share the most valuable natural resource in the arid west.

We believe the South Platte River Chatfield Reallocation Project will be a national model of intelligent and comprehensive water resource planning, and strongly urge its support by Colorado's congressional delegation and the U.S. Army Corp of Engineers.

Sincerely,

  
James C. Woods  
City Manager

JCW:cb

Cc: Littleton City Council



6450 York Street - Denver, Colorado 80229-7499  
(303) 286-3000 Telefax (303) 286-3030  
[www.metrowastewater.com](http://www.metrowastewater.com)

Charles W. Long, Chairman of the Board  
Kathryn E. Jensen, Chairman Pro Tem  
Curt A. Aldstadt, Secretary  
Robert C. Monks, Treasurer

Catherine R. Gerall, District Manager

January 16, 2009

Jeff Shoemaker, Executive Director  
The Greenway Foundation  
1040 South Gaylord Street, Suite 201  
Denver, Colorado 80209

Dear Mr. Shoemaker:

RE: South Platte River Chatfield Reallocation Environmental/Ecosystem Restoration

On behalf of the Metro Wastewater Reclamation District, I am writing to support the South Platte River Chatfield Reallocation Environmental/Ecosystem Restoration Coalition effort. The Coalition's goal is to maximize the beneficial use of the available Chatfield Reservoir capacity for purposes of meeting the instream needs of the South Platte River through the Denver metropolitan area, without compromising municipal and agricultural water supply needs. An important ongoing component of this effort is to identify and evaluate potential environmental options that can be leveraged to partially finance the cost of reallocation.

Each of the upstream, instream, and downstream groups and agencies involved in management and uses of the South Platte River have a stake in the success of the reallocation effort and are taking advantage of this once-in-a-generation opportunity to maximize the use of the river while improving the river's environment.

We support the Coalition's efforts in working with the U.S. Army Corps of Engineers and the Colorado congressional delegation to identify and evaluate potential environmental benefits related to increased Chatfield Reservoir releases – releases that will be conveyed through the metropolitan Denver urban corridor to downstream water users. The Coalition represents the type of multi-jurisdictional resource management effort that needs to occur along the river to balance traditional water uses with environmental and less-traditional human needs.

Yours truly,

A handwritten signature in dark ink, appearing to read "Barbara J. Biggs".

Barbara J. Biggs  
Governmental Affairs Officer

BJB:wlh  
M:\PD-c\Hall\Ntrs\Chatfield Support\_bjb.doc



## Utilities Department

December 10, 2007

RE: South Platte River Chatfield Reservoir Reallocation Project

To Whom It May Concern:

The Town of Castle Rock is pleased to write this letter of support for the South Platte River Chatfield Reservoir Reallocation Project effort. The project would create storage space for an additional 20,600 acre-feet of water in Chatfield Reservoir, a U.S. Army Corps flood control project. The Colorado Water Conservation Board serves as the local sponsor for the FR/EIS.

The additional 20,600 acre-feet of storage space would be shared by upstream users, including the Town of Castle Rock, Castle Pines Metropolitan District, Castle Pines North Metropolitan District, Centennial Water and Sanitation District, Center of Colorado Water Conservancy District, Colorado Division of Parks & Outdoor Recreation, Denver Botanic Gardens, Parker Water and Sanitation District, Perry Park Country Club, Roxborough Metropolitan District and South Metro Water Supply Authority, and downstream users, including the City of Aurora, the City of Brighton, Central Colorado Water Conservancy District and Western Mutual Ditch Company.

The project's five instream partners – City and County of Denver, City of Littleton, Denver Water, The Greenway Foundation and Metro Wastewater – would potentially benefit from increased downstream flows in the South Platte River resulting in environmental benefits along the river.

The Chatfield Reservoir Reallocation Project will contribute to solving critical multi-use water supply and environmental challenges in Colorado. The project represents the type of multi-jurisdictional resource management effort that needs to occur along the river to balance traditional water uses with environmental benefits.

Sincerely,

  
Ron R. Redd  
Utilities Director

RRR:csr



# CASTLE PINES

METROPOLITAN DISTRICT

October 16, 2006

Mr. Jeff Shoemaker  
Executive Director  
The Greenway Foundation  
1040 South Gaylord Street, Suite 201  
Denver, CO 80209

RE: South Platte River Chatfield Reservoir Reallocation Project

Dear Mr. Shoemaker:

On behalf of Castle Pines Metropolitan District, we write to support the South Platte River Chatfield Reservoir Reallocation Project effort. The Coalition's goal is to maximize the beneficial use of the available Chatfield Reservoir capacity for purposes of meeting the instream needs of the South Platte River through the Denver metropolitan area, without compromising municipal and agricultural water supply needs. An important ongoing component of this effort is to identify and evaluate potential environmental options that can be leveraged to partially finance the cost of reallocation.

To achieve these goals, we support the following Coalition project objectives:

- Urge Colorado congressional delegation support for a U.S. Army Corps of Engineers (USACE) Energy and Water Development appropriation for the Chatfield EIA and related work (Chatfield, Cherry Creek, and Bear Creek Reservoirs, Colorado, ISACE Omaha District General Investigations Study) to further completion of the EIS.
- Urge swift passage of the Water Resources Development Act reauthorization bill which includes language specifically for the South Platte River.
- Promote understanding with the Colorado congressional delegation of the need to engage the U.S. Army Corps of Engineers on an active and fruitful policy discussion to develop new or revised environmental metrics and criteria for an urban and/or suburban river corridor. This may eventually lead to the need for delegation support for new or revised USACE policies.

Each of the upstream, instream, and downstream groups and agencies involved in management and uses of the South Platte River have a stake in the success of the reallocation effort and are taking advantage of this once-in-a-generation opportunity to maximize the use of the river while improving the river's environment.

We support the Coalition's efforts in working with the U.S. Army Corps of Engineers and the Colorado congressional delegation to (1) ensure that increased Chatfield Reservoir releases benefit upstream users and (2) identify and evaluate potential environmental benefits related to increased Chatfield Reservoir releases – releases that will be conveyed through the metropolitan Denver urban corridor to downstream water users. The Coalition represents the type of multi-jurisdictional resource management effort that needs to occur along the river to balance traditional water uses with environmental and less-traditional human needs.

Sincerely,



Paul V. Dannels  
District Manager

	<h1>CASTLE PINES</h1> <p>NORTH METROPOLITAN DISTRICT</p>	
--	--	--

February 6, 2009

**RE: Chatfield Reallocation**

To Whom It May Concern:

On behalf of the Castle Pines North Metropolitan District Board of Directors, I am writing this letter of support for the Chatfield Reallocation Project. Castle Pines North Metropolitan District is a small utility provider located in Northern Douglas County. Currently the Castle Pines North community is 100% dependent upon Denver Basin Ground Water. While we are not running out of water, it has become increasingly clear that the Denver Basin Groundwater supply is a non-renewable source of supply. In short, nearly 10,000 residents are depending upon a water supply that is not sustainable. Castle Pines North's management team and Board have been diligently pursuing the acquisition of a renewable water supply since 2004. Given Castle Pines North's proximity to Chatfield, the District has identified storage space in Chatfield Reservoir as the centerpiece of their renewable water supply plans.

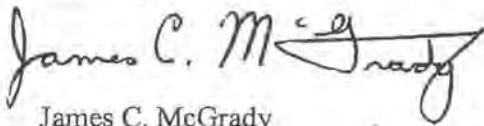
Reallocation at Chatfield reservoir will provide storage space for reusable return flows generated from our Denver Basin wells. By storing return flows and reusing this water to extinction, Castle Pines North will reduce its pumping by nearly 50%. This action will prolong the longevity of our existing Denver Basin wells. In 2004 Castle Pines North filed a water storage right that would enable Castle Pines North to store water at Chatfield. This water storage right will provide much needed renewable water to the District in those years that experience above average precipitation. Chatfield Reservoir will also enable the District to lease water from other municipalities that may have excess water in a particular year.

Each of the sixteen upstream, instream and downstream groups and agencies involved in the completion of the Environmental Impact Study have a stake in the success of the reallocation process. This project is a demonstration of a truly collaborative process, in that, this project has involved various environmental groups, representatives from the

agricultural community, as well as several municipal water providers. It is so refreshing to watch these diverse groups work to implement this project in a true spirit of cooperation.

We believe that this coalition of participants represents the type of multi-jurisdictional resource management effort that needs to occur along the river to balance traditional water uses with environmental needs. Given the importance of this project, we personally want to thank you for your support of the reallocation project. Anything that can be done to reduce the cost of this project and provide for the timely completion of the Environmental Impact Study that is currently underway will be most appreciated by the residents of the Castle Pines North community.

Sincerely,

A handwritten signature in black ink that reads "James C. McGrady". The signature is fluid and cursive, with the first name "James" and last name "McGrady" clearly legible.

James C. McGrady  
General Manager  
Castle Pines North Metropolitan District

C Board of Directors Castle Pines North Metropolitan District  
Jeff Shoemaker Executive Director of the Greenway Foundation  
Tom Browning Project Manager



**CENTENNIAL**  
WATER AND SANITATION DISTRICT

April 5, 2006

Jeff Shoemaker  
Executive Director  
The Greenway Foundation  
1040 South Gaylord Street, Suite 201  
Denver, CO 80209

RE: Chatfield Reservoir Storage Reallocation

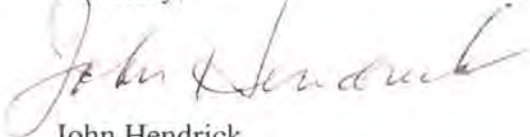
Dear Mr. Shoemaker:

Centennial Water and Sanitation District, which provides water to Highlands Ranch, strongly supports your Reallocation Coalition's efforts to secure the necessary federal funding to complete the Chatfield Reservoir storage reallocation project. Specifically, we urge the U.S. Congress to approve the U.S. Army Corps of Engineers FY 2007 Energy and Water Development appropriation of \$500,000 for the Chatfield Feasibility Report and Environmental Impact Statement. These funds have been matched by local funds to complete the intensive studies that are now ongoing.

Centennial has been an active participant in this process since 1992 and is one of the 16 participants providing local funding for the studies. Centennial filed for a Chatfield storage water right in 1984, so we have pursued this vital opportunity for over 20 years. With the February, 2006, headquarters approval of the Corps of Engineer's Antecedent Flood Criteria report concluding that 20,600 AF of storage space is available for reallocation, this project is more viable than ever.

Thank you for your leadership in organizing the Coalition. As you know, there is wide regional support for this important effort.

Sincerely,



John Hendrick  
General Manager



62 West Plaza Drive  
Highlands Ranch, Colorado 80129  
[www.highlandsranch.org](http://www.highlandsranch.org)

303-791-0430 Telephone  
303-791-0437 Engineering Fax  
303-791-3290 Financial Services Fax

Center of Colorado Water Conservancy District  
548 Front Street  
P.O. Box 1747  
Fairplay, CO 80440-1747

February 6, 2008

TO WHOM IT MAY CONCERN:

RE: South Platte River Chatfield Reservoir Reallocation Project

On behalf of the Center of Colorado Water Conservancy District, I am pleased to send this letter in support of the South Platte River Chatfield Reservoir Reallocation Project. As proposed, the project would create storage space for an additional 20,600 acre-feet of water in Chatfield Reservoir, a U.S. Army Corps flood control project.

The Chatfield Reservoir Reallocation Project would be shared by upstream users, including the Town of Castle Rock, Castle Pines Metropolitan District, Castle Pines North Metropolitan District, Centennial Water and Sanitation District, Center of Colorado Water Conservancy District, Colorado Division of Parks & Outdoor Recreation, Denver Botanic Gardens, Parker Water and Sanitation District, Perry Park Country Club, Roxborough Metropolitan District and South Metro Water Supply Authority, and downstream users, including the City of Aurora, the City of Brighton, Central Colorado Water Conservancy District and Western Mutual Ditch Company.

The project's five instream partners – City and County of Denver, City of Littleton, Denver Water, The Greenway Foundation and Metro Wastewater – would potentially benefit from increased downstream flows in the South Platte River resulting in environmental benefits along the river.

The Colorado Water Conservation Board serves as the local sponsor for the FR/EIS.

The Chatfield Reservoir Reallocation Project will contribute to solving critical multi-use water supply and environmental challenges in Colorado. The project represents the type of multi-jurisdictional resource management effort that needs to occur along the river to balance traditional water uses with environmental benefits.

Sincerely,



Lisa McVicker, Secretary

March 3, 2008

Jeff Shoemaker  
Executive Director  
The Greenway Foundation  
1040 South Gaylord Street, Suite 201  
Denver, Colorado 80209

Dear Mr. Shoemaker:

RE: South Platte River Chatfield Reservoir Reallocation Project

On behalf of Perry Park Country Club, we write to support the South Platte River Chatfield Reservoir Reallocation Project effort. The Coalition's goal is to maximize the beneficial use of the available Chatfield Reservoir capacity for purposes of meeting the instream needs of the South Platte River through the Denver metropolitan area, without compromising municipal and agricultural water supply needs. An important ongoing component of this effort is to identify and evaluate potential environmental options that can be leveraged to partially finance the cost of reallocation.

To achieve these goals, we support the following Coalition project objectives:

- Urge Colorado congressional delegation support for an U.S. Army Corps of Engineers (USACE) Energy and Water Development appropriation for the Chatfield EIS and related work (Chatfield, Cherry Creek and Bear Creek Reservoirs, Colorado, USACE Omaha District General Investigations Study) to further completion of the EIS.
- Urge swift passage of the Water Resources Development Act reauthorization bill which includes language specifically for the South Platte River;
- Promote understanding with the Colorado congressional delegation of the need to engage the U.S. Army Corps of Engineers on an active and fruitful policy discussion to develop new or revised environmental metrics and criteria for an urban and/or suburban river corridor. This may eventually lead to the need for delegation support for new or revised USACE policies.

Each of the upstream, instream and downstream groups and agencies involved in management and uses of the South Platte River have a stake in the success of the reallocation effort and are taking advantage of this once-in-a-generation opportunity to maximize the use of the river while improving the river's environment.

We support the Coalition's efforts in working with the U.S. Army Corps of Engineers and the Colorado congressional delegation to (1) ensure that increased Chatfield Reservoir releases benefit upstream users and (2) identify and evaluate potential environmental benefits related to increased Chatfield Reservoir releases – releases that



will be conveyed through the metropolitan Denver urban corridor to downstream water users. The Coalition represents the type of multi-jurisdictional resource management effort that needs to occur along the river to balance traditional water uses with environmental and less-traditional human needs.

Sincerely,

  
Robert D. Ragsdale

President, Perry Park Country Club  
7047 Perry Park Blvd.  
Larkspur, CO 80118



January 20, 2009

Jeff Shoemaker  
Executive Director  
The Greenway Foundation  
1040 South Gaylord Street, Suite 201  
Denver, Colorado 80209

Re: South Platte River Chatfield Reservoir Reallocation Project

Dear Mr. Shoemaker:

In October of 2006, on behalf of Roxborough Water and Sanitation District we wrote a letter of support for the South Platte River Chatfield Reservoir Reallocation Project effort. The Coalition's goal remains to maximize the beneficial use of the available Chatfield Reservoir capacity for purposes of meeting the instream needs of the South Platte River through the Denver metropolitan area, without compromising municipal and agricultural water supply needs. An important ongoing component of this effort is to identify and evaluate potential environmental options that can be leveraged to partially finance the cost of reallocation.

To achieve these goals, we continue to support the following Coalition project objectives:

- Urge Colorado congressional delegation support for an U.S. Army Corps of Engineers (USACE) Energy and Water Development appropriation for the Chatfield EIS and related work (Chatfield, Cherry Creek and Bear Creek Reservoirs, Colorado, USACE Omaha District General Investigations Study) to further completion of the EIS.
- Urge swift passage of the Water Resources Development Act reauthorization bill which includes language specifically for the South Platte River.
- Promote understanding with the Colorado congressional delegation of the need to engage the U.S. Army Corps of Engineers on an active and fruitful policy discussion to develop new or revised environmental metrics and criteria for an urban and/or suburban river corridor. This may eventually lead to the need for delegation support for new or revised USACE policies.

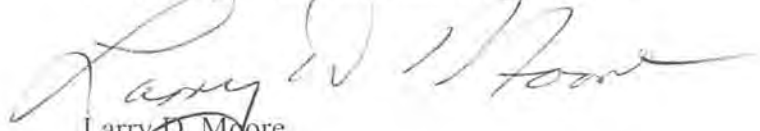
Each of the upstream, instream and downstream groups and agencies involved in management and uses of the South Platte River have a stake in the success of the reallocation effort and are taking advantage of this once-in-a-generation opportunity to maximize the use of the river while improving the river's environment.

We continue to support the Coalition's efforts in working with the U.S. Army Corps of Engineers and the Colorado congressional delegation to (1) ensure that increased Chatfield Reservoir releases benefit upstream users and (2) identify and evaluate potential environmental

benefits related to increased Chatfield Reservoir releases – releases that will be conveyed through the metropolitan Denver urban corridor to downstream water users. The Coalition represents the type of multi-jurisdictional resource management effort that needs to occur along the river to balance traditional water uses with environmental and less-traditional human needs.

Sincerely,

Roxborough Water and Sanitation District

A handwritten signature in black ink, appearing to read "Larry D. Moore". The signature is fluid and cursive, with a long horizontal stroke at the end.

Larry D. Moore  
General Manager

LDM:vn



January 28, 2008

TO WHOM IT MAY CONCERN:

RE: South Platte River Chatfield Reservoir Reallocation Project

I am pleased to send this letter on behalf of the South Metro Water Supply Authority (SMWSA) in support of the South Platte River Chatfield Reservoir Reallocation Project. Comprised of thirteen municipalities and special districts in Douglas and Arapahoe Counties, SMWSA foresees that the Chatfield Reservoir Reallocation will be a significant benefit to the future of the Front Range.

It is critical that we put existing infrastructure to better use to secure a future water supply. Built in response to the 1965 devastating flood, USACE has sense determined that Chatfield Reservoir can accommodate an additional 20,600 acre feet of wet water storage without limiting its usefulness as a flood control structure. This additional storage space will be utilized by a group of water providers to meet the diverse needs of our state (recreational, municipality and agricultural needs). It is imperative that the FR/EIS work move forward in a timely fashion, which means that funding for the FR/EIS must be secured.

As identified by the Corps of Engineer in the Probable Maximum Precipitation and the Probable Maximum Flood studies, there is at least an additional 20,600 acre feet of storage in Chatfield Reservoir. The cost of this already existing excess storage has been expensed out for other purposes over time. Therefore, additional capital investment should not be required for this more efficient use of existing infrastructure. We recognize that ongoing operation and maintenance costs are appropriate.

The project's five in stream partners – City and County of Denver, City of Littleton, Denver Water, The Greenway Foundation and Metro Wastewater – would potentially benefit from increased downstream flows in the South Platte River resulting in environmental benefits along the river.

The Chatfield Reservoir Reallocation Project will contribute to solving critical multi-use water supply and environmental challenges in Colorado. The project represents the type of multi-jurisdictional resource management effort that needs to occur along the river to balance traditional water uses with environmental benefits.

Sincerely,



Rod Kuharich  
Executive Director  
South Metro Water Supply Authority

**Hock Hocking, L.L.C**  
1437 S. Boulder, Ste 770  
Tulsa, Oklahoma 74119

March 31, 2006

Jeff Shoemaker  
Executive Director  
The Greenway Foundation  
1040 South Gaylord Street, Suite 201  
Denver, Colorado 80209

Dear Mr. Shoemaker:

RE: South Platte River Chatfield Reallocation Environmental/Ecosystem Restoration

On behalf of Hock Hocking, L.L.C., I write to support the South Platte River Chatfield Reallocation Environmental/Ecosystem Restoration Coalition effort. The Coalition's goal is to maximize the beneficial use of the available Chatfield Reservoir capacity for purposes of meeting the instream needs of the South Platte River through the Denver metropolitan area, without compromising municipal and agricultural water supply needs. An important ongoing component of this effort is to identify and evaluate potential environmental options that can be leveraged to partially finance the cost of reallocation.

To achieve these goals, we support the following Coalition project objectives:

- Urge Colorado congressional delegation support for an U.S. Army Corps of Engineers (USACE) FY2007 Energy and Water Development appropriation of \$500,000 for the Chatfield EIS and related work (Chatfield, Cherry Creek and Bear Creek Reservoirs, Colorado, USACE Omaha District, General Investigations Study) to further completion of the EIS;
- Urge swift passage of the Water Resources Development Act reauthorization;
- Promote understanding with the Colorado congressional delegation of the need to engage the U.S. Army Corps of Engineers on an active and fruitful policy discussion to develop new or revised environmental metrics and criteria for an urban and/or suburban river corridor. This may eventually lead to the need for delegation support for new or revised USACE policies.

Each of the upstream, instream and downstream groups and agencies involved in management and uses of the South Platte River have a stake in the success of the

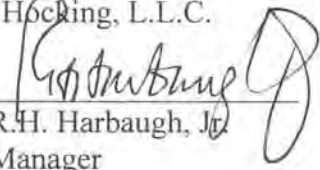
reallocation effort and are taking advantage of this once-in-a-generation opportunity to maximize the use of the river while improving the river's environment.

We support the Coalition's efforts in working with the U.S. Army Corps of Engineers and the Colorado congressional delegation to (1) ensure that increased Chatfield Reservoir releases benefit upstream users and (2) identify and evaluate potential environmental benefits related to increased Chatfield Reservoir releases – releases that will be conveyed through the metropolitan Denver urban corridor to downstream water users. The Coalition represents the type of multi-jurisdictional resource management effort that needs to occur along the river to balance traditional water uses with environmental and less-traditional human needs.

Sincerely,

Hock Hocking, L.L.C.

By

  
R.H. Harbaugh, Jr.  
Manager