

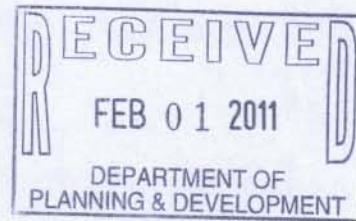


## Colorado Springs Utilities

*It's how we're all connected*

January 28, 2011

Michael J. Ryan  
Regional Director  
Great Plains Regional Office  
Bureau of Reclamation  
P.O. Box 36900  
Billings, MT 59107-6900



**Subject:** Southern Delivery System Permit Compliance Annual Report (Calendar Year 2010)

Mr. Ryan:

Colorado Springs Utilities, the Southern Delivery System (SDS) Project Manager, is submitting the attached Permit Compliance Annual Report for Calendar Year 2010. Submittal of this report demonstrates the SDS Project's progress to successfully implement the commitments as prescribed in the SDS ROD, Reference No.: GP-2009-01.

Please contact me at 719-668-8037, or Allison Mosser at 719-668-8667, with any questions regarding the attached report.

Sincerely,

John A. Fredell  
Southern Delivery System Program Director

Enclosure

- c: City of Fountain, Larry Patterson, Utilities Director  
Colorado Department of Public Health and Environment, Steven Gunderson, Director,  
Water Quality Control Division  
Colorado Division of Wildlife, Dan Prenzlowl, Regional Manager, Southeast Region  
Fountain Creek Watershed Flood Control and Greenway District, Jeff Chostner, Chair  
Pueblo County Planning & Development, **Kim B. Headley**, Director  
Pueblo West Metropolitan District, Steve Harrison, Director of Utilities  
Security Water and Sanitation District, Roy Heald, District Manager  
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# **Southern Delivery System Permit Compliance Annual Report Calendar Year 2010**

Prepared for:

**Bureau of Reclamation**

**Colorado Department of Public Health and  
Environment**

**Colorado Division of Wildlife**

**El Paso County**

**Pueblo County**

**Fountain Creek Watershed Flood Control and  
Greenway District**

Submitted by:

**Colorado Springs Utilities, SDS Project Manager  
on behalf of the SDS Participants**

January 2011

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# Acronyms and Abbreviations

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1041 Permit	Pueblo County 1041 Permit No. 2008-002
CDOW	Colorado Division of Wildlife
CDPHE	Colorado Department of Public Health and Environment
CWC	Colorado Wildlife Commission
CWCB	Colorado Water Conservation Board
EMS	Environmental Management System
FEIS	Final Environmental Impact Statement
FWMP	Fish and Wildlife Mitigation Plan
GMP	Geomorphic Mitigation Plan
IAMP	Integrated Adaptive Management Plan
mgd	million gallons per day
MP	Monitoring Plan
NEPA	National Environmental Policy Act
PCAR	Permit Compliance Annual Report
PDC	Pueblo Dam Connection
Reclamation	Bureau of Reclamation
ROD	Record of Decision
SCMP	Socioeconomic Construction Management Plan
SDS	Southern Delivery System Project
SDS Participants	City of Colorado Springs, City of Fountain, Security Water District, and Pueblo West Metropolitan District
USACE	United States Army Corps of Engineers
UWCR	Upper Williams Creek Reservoir
WCR	Williams Creek Reservoir
WTP	water treatment plant



# Executive Summary

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The Southern Delivery System Project (SDS) is a proposed regional water delivery system that will serve the City of Colorado Springs (via Colorado Springs Utilities), City of Fountain, Security Water District, and Pueblo West Metropolitan District (collectively, the SDS Participants).

## Purpose

The purpose of the SDS Permit Compliance Annual Report (PCAR), submitted by Colorado Springs Utilities, the SDS Project Manager, is to demonstrate the progress to successfully implement the commitments as prescribed in the Record of Decision (ROD) to the Bureau of Reclamation (Reclamation). Colorado Springs Utilities also reviewed the other six programmatic permits/approvals that are in place to identify annual reporting requirements of each. The following four permits/approvals have annual reporting requirements addressed in this report:

- El Paso County Location Approvals
  - Planning Commission Resolution U-09-002, March 2, 2010, Southern Delivery System Raw Water Pipelines
  - Planning Commission Resolution U-09-003, March 2, 2010, Southern Delivery System Finished Water Pipelines
  - Planning Commission Resolution U-09-004, March 16, 2010, Southern Delivery System Bradley Pump Station
  - Planning Commission Resolution U-09-005, March 16, 2010, Southern Delivery System Upper Williams Creek Reservoir
  - Planning Commission Resolution U-09-007, March 16, 2010, Southern Delivery System Exchange Flow System
- Pueblo County Board of County Commissioners Resolution No. P&D 09-22 approving 1041 Permit No. 2008-02, April 21, 2009
- Fountain Creek Watershed, Flood Control and Greenway District (District) Resolution 2010-01, February 26, 2010
- Colorado Department of Public Health and Environment (CDPHE) 401 Certification No. 4224, April 23, 2010, which includes the requirement to provide copies of all other annual reports

The following two programmatic permits/approvals do not specifically include annual reporting requirements.

- Memorandum of Agreement with the State of Colorado, Department of Natural Resources on behalf of the Colorado Division of Wildlife regarding the Fish and Wildlife Mitigation Plan, May 18, 2010
- United States Army Corps of Engineers Clean Water Act Section 404 Individual Permit No. SPA-2005-00131-SCO, April 26, 2010

## Reporting Requirements

The ROD requires annual reporting to summarize the SDS Project's progress made in implementing the commitments. Colorado Springs Utilities has elected to develop one SDS PCAR that addresses the ROD commitments and the other annual or periodic reporting requirements included in the programmatic permits/approvals that are listed above. The first annual report for 2010 addresses all programmatic requirements comprehensively, and addresses all conditions regardless of whether there was applicable activity in this reporting period. This effort has been made to acknowledge and address all of the compliance items in the SDS permits and approvals. In future reports, only conditions that have applicable project activity will be in the report.

## Summary of SDS Activities During this Reporting Period

The SDS Project has met a number of key milestones during this reporting period to prepare for and begin the construction of SDS. These activities have included multiagency collaboration and coordination to meet these accomplishments. A detailed list of these activities is in Section 3.0 of this report. Colorado Springs Utilities has prepared the following documents per the commitments described in the ROD and other programmatic permits and agreements:

- Environmental Commitment Plan,
- Geomorphic Mitigation Plan,
- Integrated Adaptive Management Plan (IAMP),
- Monitoring Plan,
- Socioeconomic Construction Management Plan, and
- Cultural Resources Programmatic Agreement and Treatment Plan.

# 1.0 Introduction

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## 1.1 Purpose

The purpose of the SDS Permit Compliance Annual Report (PCAR), submitted by Colorado Springs Utilities as SDS Project Manager, is to demonstrate the progress in successfully implementing the commitments as prescribed in the ROD (Reclamation 2009). This PCAR has been prepared to be consistent with the ROD and other permits issued by agencies having jurisdiction over SDS, specifically the following programmatic permits/approvals:

- Bureau of Reclamation Record of Decision for the Southern Delivery System Final Environmental Impact Statement, Record of Decision Reference No. GP-2009-01, March 20, 2009
- El Paso County Location Approvals
  - Planning Commission Resolution U-09-002, March 2, 2010, Southern Delivery System Raw Water Pipelines
  - Planning Commission Resolution U-09-003, March 2, 2010, Southern Delivery System Finished Water Pipelines
  - Planning Commission Resolution U-09-004, March 16, 2010, Southern Delivery System Bradley Pump Station
  - Planning Commission Resolution U-09-005, March 16, 2010, Southern Delivery System Upper Williams Creek Reservoir
  - Planning Commission Resolution U-09-007, March 16, 2010, Southern Delivery System Exchange Flow System
- Pueblo County Board of County Commissioners Resolution No. P&D 09-22 approving 1041 Permit No. 2008-02, April 21, 2009
- Fountain Creek Watershed, Flood Control and Greenway District (District) Resolution 2010-01, February 26, 2010
- Colorado Department of Public Health and Environment (CDPHE) 401 Certification No. 4224, April 23, 2010, which includes the requirement to provide copies of all other annual reports

Colorado Springs Utilities reviewed all seven of the programmatic permits/approvals that are in place to identify annual reporting requirements of each. The following two programmatic permits/approvals do not specifically include annual reporting requirements.

- Memorandum of Agreement with the State of Colorado, Department of Natural Resources on behalf of the Colorado Division of Wildlife regarding the Fish and Wildlife Mitigation Plan, May 18, 2010

- United States Army Corps of Engineers Clean Water Act Section 404 Individual Permit No. SPA-2005-00131-SCO, April 26, 2010

Colorado Springs Utilities prepared an Environmental Commitment Plan and developed a Phase I Environmental Management System (EMS) to track compliance with the commitments associated with all of the programmatic permits/approvals.

## 1.2 Southern Delivery System Project Overview

SDS is a proposed regional water delivery project that will serve the City of Colorado Springs (via Colorado Springs Utilities), City of Fountain, Security Water District, and Pueblo West Metropolitan District (collectively, the SDS Participants).

The first phase of SDS includes construction of the following facilities:

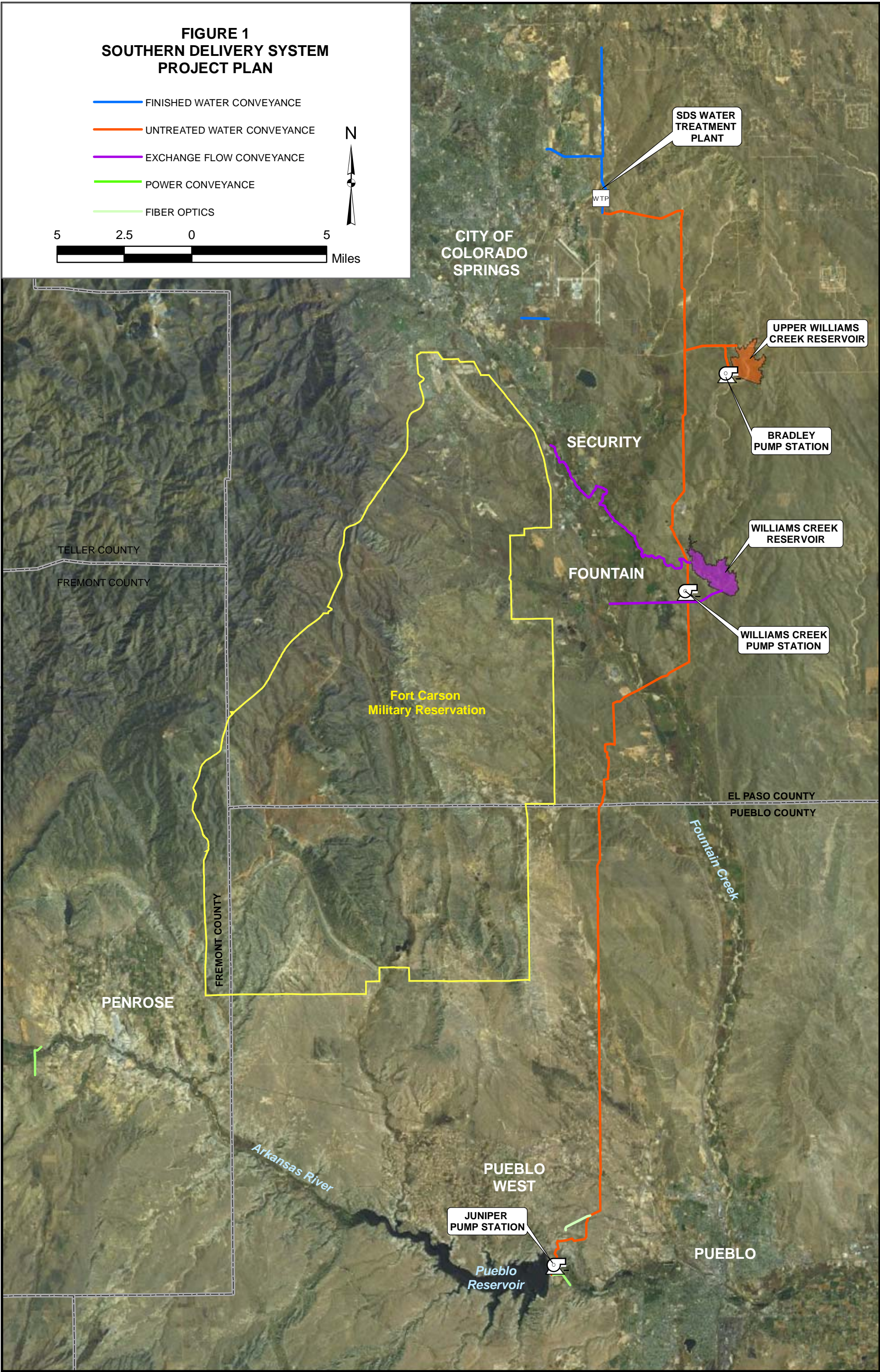
- A 53-mile raw water pipeline (66- and 72-inch diameter)
- Two 78-million-gallon-per-day (mgd) raw water pump stations and one 50-mgd raw water pump station (expandable in Phase 2)
- A water treatment plant (WTP) with a capacity of 50 mgd (expandable in Phase 2)
- Nine miles of 24- to 54-inch-diameter finished water pipelines

Phase 2 of SDS includes the following:

- A 30,500 acre-feet terminal storage reservoir on upper Williams Creek, called Upper Williams Creek Reservoir (UWCR)
- Expansion of the 50-mgd raw water pump station and WTP to 100-mgd capacity
- Expansion of the treated water delivery system
- A 28,000 acre-feet exchange storage reservoir on Williams Creek called Williams Creek Reservoir and exchange conveyance facilities to transfer exchange water to and from Fountain Creek

The SDS facilities are shown on Figure 1.







## 1.3 SDS Participant Information

Contact details for the SDS Participants and their authorized agent are as follows.

### 1.3.1 SDS Participants

#### Colorado Springs Utilities

(Authorized agent acting on behalf of Participants)

Contact: John Fredell, SDS Program Director  
Plaza of the Rockies, Third Floor  
121 S. Tejon, MC930  
Colorado Springs, CO 80947  
Phone: (719) 668-8037; Fax: (719) 668-8734  
E-mail: jfredell@csu.org

#### Security Water District (Participant)

Contact: Roy Heald, District Manager  
231 Security Blvd.  
Security, CO 80911  
Phone: (719) 392-3475; Fax: (719) 390-7252  
E-mail: r.heald@securitywsd.com

#### City of Fountain (Participant)

Contact: Larry Patterson, Director of Utilities  
116 S. Main St.  
Fountain, CO 80817  
Phone: (719) 322-2076; Fax: (719) 391-0463  
E-mail: lpatterson@fountaincolorado.org

#### Pueblo West Metropolitan District (Participant)

Contact: Steve Harrison, Utilities Director  
109 E. Industrial Blvd.  
Pueblo West, CO 80017  
Phone: (719) 547-3554; Fax: (719) 547-2833  
E-mail: sharrison@pmwd-co.us

## 1.4 Southern Delivery System Project Regulatory Review Process

SDS has undergone, and continues to undergo, significant regulatory oversight at the federal, state, and local levels. At the federal level, Reclamation has performed extensive and detailed environmental studies as a part of the National Environmental Policy Act (NEPA) process, the culmination of which was a Final Environmental Impact Statement (FEIS) and ROD.



The ROD for SDS was issued on March 20, 2009. It identified SDS shown in Figure 1-1 as the Preferred Alternative. SDS has been determined to cause “the least damage to the biological and physical environment” (Reclamation 2009). The ROD included extensive commitments by the SDS Participants to significant, long-term mitigation measures.

SDS crosses wetlands and other waters of the United States that require a permit from the United States Army Corps of Engineers (USACE) under the dredged and fill material permit program established under Section 404 of the federal Clean Water Act. A Section 404 Permit was received for SDS on April 26, 2010. Colorado Springs Utilities will develop new wetlands as compensatory mitigation for the Section 404 Permit and will provide copies of the mitigation plans to the Fountain Creek Watershed, Flood Control, and Greenway District for review.

At the state level, SDS received a 401 Certification from the Colorado Department of Public Health and Environment (CDPHE) on April 23, 2010, as required by Section 401 of the Clean Water Act for all individual Section 404 permitted activity. The Colorado Division of Wildlife (CDOW) also reviewed SDS, and an SDS Fish and Wildlife Mitigation Plan (FWMP) was prepared collaboratively with CDOW staff and approved by both the Colorado Wildlife Commission (CWC) and the Colorado Water Conservation Board (CWCB) (Colorado Springs Utilities, City of Fountain, Security Water District, Pueblo West Metropolitan District, and Colorado Division of Wildlife 2010a). A Memorandum of Understanding implementing the FWMP was executed with the CDOW on May 18, 2010.

At the county and city levels, SDS is subject to a variety of regulatory reviews and associated mitigations, including the following:

- Pueblo County 1041 Permit (No. 2008-002),
- El Paso County Location Approval and Site Development Plan processes, and
- Review by the Fountain Creek Watershed, Flood Control, and Greenway District (District).

Collectively, these permit conditions include comprehensive and extensive mitigation requirements, which are detailed in the respective resolutions of approval.

## 2.0 Listing of Permit Compliance Reporting Requirements for SDS

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A detailed and specific listing of the permit compliance reporting requirements for SDS for the seven programmatic permits and approvals received for SDS is provided in Attachment 1 – Implementation Progress Matrix.

The Implementation Progress Matrix contains:

- A listing of the environmental commitments for SDS with annual reporting requirements (columns 1 and 2).
- A description of SDS implementation progress towards compliance with each of the commitments (column 3).
- A field to show if additional documentation is included in an attachment to this report (column 4).

Supporting documentation listed in column 4 is provided in the following attachments:

- Attachment 2 - Monthly Average Flow Date from USGS Gauge Station
- Attachment 3 - Water Quality Monitoring Data
- Attachment 4 - Complaint Log
- Attachment 5 - Emergency Response Log
- Attachment 6 - Log of Work Occurring During Non-Typical Work Hours

## 3.0 Summary of SDS Activities Undertaken During the Reporting Period

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A number of actions have been taken during this reporting period to prepare for and begin the construction of SDS. Some of the key milestones achieved during this reporting period include the following:

- February 26, 2010 – Fountain Creek Watershed, Flood Control and Greenway District Board adopted Resolution 2010-01 approving SDS.
- March 2, 2010 – El Paso County Planning Commission adopted Resolutions U-09-002 and U-09-0003 approving the SDS raw water and finished water pipelines, respectively.
- March 16, 2010 – El Paso County Planning Commission adopted Resolutions U-09-004, U-09-005 and U-09-007 approving the SDS Bradley Pump Station, Upper Williams Creek Reservoir and Exchange Flow System, respectively.
- April 23, 2010 – Obtained 401 Water Quality Certification No. 4224 for SDS from the Colorado Department of Public Health & Environment.
- April 26, 2010 – Awarded the construction contract for the Finished Water 1A (FW1A) pipeline to Garney Construction for the amount of \$3.590 Million.
- April 26, 2010 – Obtained the Individual 404 Permit No. SPA-2005-00131-SCO for SDS from the U.S. Army Corps of Engineers.
- May 18, 2010 – Entered into a Memorandum of Agreement with the State of Colorado, Department of Natural Resources on behalf of the Colorado Division of Wildlife regarding the Fish and Wildlife Mitigation Plan
- June 7, 2010 – Awarded the Program Management contract to assist in managing, procuring, and constructing SDS to MWH.
- July 14, 2010 – Awarded the construction contract for the Pueblo Dam Connection to ASI Construction of Pueblo, Colorado for the amount of \$5.625 Million (construction anticipated to start early spring 2011).
- August 25, 2010 – Reached agreement with Reclamation on the contracts required to store, convey and exchange water using Pueblo Reservoir.
- September 1, 2010 – Received the fully executed Programmatic Agreement between Reclamation, Springs Utilities and the Colorado State Historic Preservation Officer regarding SDS.
- September 8, 2010 – Obtained Site Development Plan approval from El Paso County for the FW1A Work Package and started construction on FW1A.

- September 27, 2010 – Payment to Pueblo County in the amount of \$2.2 Million to fulfill the 1041 Permit No. 2008-002, Condition No. 8 obligation to complete dredging projects on Fountain Creek.
- October 20, 2010 – Submitted a Site Development Plan application to El Paso County for the raw water pipeline segment S4B/N1A.
- November 8, 2010 – Pre-qualified seven prime contractors to bid on upcoming raw water transmission pipeline construction projects (SOQ-AW-84432).
- November 17, 2010 – Submitted a Site Development Plan application to El Paso County for the raw water pipeline segment N1B.
- December 7, 2010 – Submitted concurrent applications to amend the Approval of Location for Williams Creek Pump Station to allow construction staging, and Site Development Plan approval for a construction staging area at the Williams Creek Pump Station.
- December 7, 2010 – Bids received for the raw water pipeline segment S4B/N1A construction contract.

In addition to the milestones listed above, Colorado Springs Utilities also began preparation of the following documents per the commitments described in the ROD and other programmatic permits and agreements:

- Environmental Commitment Plan,
- Geomorphic Mitigation Plan,
- Integrated Adaptive Management Plan (IAMP),
- Monitoring Plan,
- Socioeconomic Construction Management Plan, and
- Treatment Plan.

Colorado Springs Utilities made the following progress on several commitments which will be on-going through the construction and operation of SDS.

- Began procurement of design services for the wetland mitigation project required to offset the permanent impact of 0.23 acres of U.S. Army Corps of Engineers jurisdictional wetlands due to SDS. Construction of these wetlands is anticipated to commence in 2011.
- Began identification of a location for the wetland construction to mitigate the 12.3 acres of non-jurisdictional wetlands that will be impacted as a result of SDS.
- Implemented a Phase I EMS to track compliance with programmatic permit/approval commitments and construction permit requirements.
- Entered into a Joint Use Agreement with the U.S. Geological Survey regarding the implementation of the Monitoring Plan for SDS.
- Included permitting and compliance requirements in design drawings and specifications, as required.

Colorado Springs Utilities, or its selected contractors, also obtained a number of construction-related permits. The acquisition of these permits as well as the compliance with these permits is being tracked through the Phase I EMS.

## 4.0 References

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- Bureau of Reclamation. 2008. Southern Delivery System Final Environmental Impact Statement. December.
- Bureau of Reclamation. 2009. Record of Decision for the Southern Delivery System Project Final Environmental Impact Statement. Record of Decision Reference No. GP-2009-01. Colorado Department of Public Health and Environment. 2010. Section 401 Water Quality Certification; Colorado 401 Certification No.: 4224; U.S. COE 404 Permit No.: SPA-1995-00131-SCO; Description: Southern Delivery System; Location: El Paso and Pueblo Counties; Watercourse: Arkansas River, Fountain Creek and tributaries; Designation: Reviewable (MA01, MA02, MA03, FO02a, FO02b); Use Protected: (FO04, LA01a, LA01b). April 23
- Colorado Springs Utilities, City of Fountain, Security Water District, Pueblo West Metropolitan District, and Colorado Division of Wildlife. 2010a. Southern Delivery System Fish and Wildlife Mitigation Plan. March 11.
- El Paso County. 2010. Planning Commission Resolution U-09-002. For the Approval of Location of the Southern Delivery System Raw Water Pipeline within the A-5 (Agricultural), PUD (Planned Unit Development), RR - 2.5 (Rural Residential) and RR-5 (Residential Rural) Zone District. March 2.
- El Paso County. 2010. Planning Commission Resolution U-09-003. For the Approval of Location of the Southern Delivery System Finished Water Pipeline within the PUD (Planned Unit Development) Zone District. March 2.
- El Paso County. 2010. Planning Commission Resolution U-09-004. For the Approval of Location of the Southern Delivery System Bradley Pump Station within the RR-5 (Residential Rural) Zone District. March 16.
- El Paso County. 2010. Planning Commission Resolution U-09-005. For the Approval of Location of the Upper Williams Creek Reservoir within the RR-5 (Residential Rural) Zone District. March 16.
- El Paso County. 2010. Planning Commission Resolution U-09-007. For the Approval of Location of the Exchange Flow System within the RR-5 (Residential Rural) Zone District. March 16.
- Fountain Creek Watershed, Flood Control, and Greenway District. 2010. Board of Directors Resolution 2010-01 – Land Use. A Resolution recommending that the El Paso County Planning Commission approve applications by Colorado Springs Utilities and on behalf of the Project Participants for location approvals for the Southern Delivery System located within the Fountain Creek Watershed Management Area and approving those portions of the Southern Delivery System located within the Fountain Creek Corridor. February 26.



Pueblo County. 2009. 1041 Permit No. 2008-002. The Board of County Commissioners of Pueblo County Colorado; A Resolution Approving 1041 Permit No.2008-002 With Terms and Conditions for Construction and Use of a Municipal Water Project Known as the Southern Delivery System within Pueblo County, Colorado. April 21.

State of Colorado. 2010. Memorandum of Agreement by and between the State of Colorado, acting by and through the Department of Natural Resources, for the use and benefit of the Division of Wildlife and Colorado Springs Utilities, acting as the Project Manager for the Southern Delivery System. May 18.

U.S. Army Corps of Engineers. 2010. Department of the Army Permit; Permittee: Colorado Springs Utilities; Permit No. SPA-2005-00131-SCO; Issuing Office: Albuquerque District, U.S. Army Corps of Engineers. April 26.

# Implementation Progress Matrix

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## ATTACHMENT 1

## Implementation Progress Matrix

Reporting Requirements		CY2010 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
<b>Bureau of Reclamation - Record of Decision</b>			
<b>Environmental Commitments</b>			
p. 11, ¶1	Such contracts will, at a minimum, include a requirement for the SDS Participants to submit to Reclamation an annual compliance report that certifies progress in successfully implementing these commitments in a timely manner as prescribed in this ROD and any contracts.	This Permit Compliance Annual Report is being prepared to demonstrate the progress in successfully implementing the commitments as prescribed in the ROD and the annual reporting requirements found in the other programmatic permits and approvals including: the Pueblo County 1041 Permit, the El Paso County Location Approvals, the CDPHE 401 Water Quality Certification and the Fountain Creek Watershed, Flood Control and Greenway District approval.	No
p. 11, ¶2	The Participants must obtain other significant Federal, State, and local permits, approvals, and agreements for the SDS Project.	The programmatic permits for the Southern Delivery System (SDS) are in place. The selected construction contractors are required through the contract documents to submit copies of all permits acquired. The SDS Participants are tracking the permit acquisition progress for each of the work packages as construction activities commence.	No
p. 11, ¶3	A detailed and specific list of environmental commitments and plan for their implementation will emerge from this coordination process.  The timing of this process is important. Coordination of implementation of the environmental commitment plan will occur prior to executing any contracts for the SDS Project.	An Environmental Commitment Plan has been completed and will be submitted to the Bureau of Reclamation before the contracts are finalized.	No
<b>Participants' Commitments: General Commitments</b>			
p. 12, Bullet 1	Comply with all applicable permits, regulations, and laws including but not limited to CDPHE, USCOE 404, and local land use permits obtained for the SDS Project.	Compliance with permit and regulatory requirements is being tracked through the implementation of an Environmental Management System (EMS). In addition, the construction contract documents for each of the work packages include permit and regulatory compliance requirements.	No
p. 12, Bullet 2	Construct and operate the SDS Project in a manner that does not differ substantially from that evaluated in this FEIS, except under emergency conditions, and unless additional and appropriate environmental investigations are completed by Reclamation and approval is then given to Participants to alter construction or operation of the SDS Project.	The SDS Participants intend to construct and operate the preferred alternative that was identified in the FEIS. The construction of the project commenced in this reporting period with the award of the construction contract for the Pueblo Dam Connection (construction activities not anticipated to start until Spring 2011). One segment of the finished water pipeline (FW1A) commenced construction in September, 2010. The procurement process for one of the raw water pipeline packages, S4B/N1A, began in this reporting period as well.	No

ATTACHMENT 1

Implementation Progress Matrix

Reporting Requirements		CY2010 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
p. 12, Bullet 3	Develop and implement a head pressure monitoring program on the Joint Use Manifold to isolate effects attributable to the SDS Project and to mitigate those effects if they were to occur. This program will be developed over a 3-year period from the date that water is first delivered from the Joint Use Manifold for the SDS project. Development of the monitoring program will include involvement of all other Joint Use Manifold users.	This commitment is no longer applicable to SDS. The Joint Use Manifold will not be used with the construction of the Pueblo Dam Connection at the North Outlet Works.	No
p. 12, Bullet 4	Develop an integrated adaptive management program for the project that will be coordinated with the Participants' existing monitoring programs and the Environmental Management System discussed in Appendix F of the FEIS. The integrated adaptive management program will be finalized prior to executing any contracts for the SDS project.	An Integrated Adaptive Management Plan (IAMP) has been developed and will be submitted to the Bureau of Reclamation before the contracts are finalized. The requirements of the IAMP will be coordinated with the development of the Phase II EMS that Colorado Springs Utilities will begin developing in the next reporting period. The requirements of the IAMP are not effective until SDS is operational.	No
<b>Participants' Commitments: Surface Water</b>			
p. 12, Bullet 1	Comply with the Upper Arkansas Voluntary Flow Management Program except during emergency conditions as defined in Section 2.b. of the Memorandum Of Understanding for Settlement of Case No. 04CW129, Water Division 2 (Chaffee County Recreation In-Channel Diversion).	The SDS Participants will follow the Upper Arkansas Voluntary Flow Management Program.	No
p. 13, Bullet 2	Comply with the Pueblo Flow Management Program pursuant to existing intergovernmental agreements. If Reclamation and the Participants receive credible information that project operations are impairing physical diversion of a senior water right, contrary to Colorado water law, the Participants will immediately initiate discussions among the parties, including the party alleging the impairment of Reclamation, to develop a solution and remedy the impairment in compliance with Colorado water law.	The SDS Participants will follow the Pueblo Flow Management Program.	No
p. 13, Bullet 3	Participants will consult with Reclamation each year on the average annual flow in Fountain Creek. If the average annual stream flow of Fountain Creek as measured at Pueblo (USGS gauge station number 07106500) exceeds the scope and range of the flow estimated and analyzed in the Final Environmental Impact Statement (see Table 33 of the FEIS), then Participants will coordinate with Reclamation, within their adaptive management plan, to evaluate the cause(s) for the change in flows and determine whether appropriate response actions, such as monitoring and/or mitigation measures, are warranted. Each year, Participants will report to Reclamation the average annual flow in Fountain Creek at Pueblo together with other relevant data.	The average annual flow during this reporting period in Fountain Creek as measured at USGS gauge station number 07106500 was approximately 131.8 cubic feet per second (cfs). Table 33 of the FEIS reported the existing condition average annual simulated streamflow at this location as 188 cfs. As construction of the Southern Delivery System project started during this reporting period, no flows have been introduced to Fountain Creek as a result of this project. See Attachment 2 for the monthly average flow data from USGS Gauge Station Number 07106500.	Attachment 2 - Monthly Average Flow Data from USGS Gauge Station Number 07106500

# ATTACHMENT 1

## Implementation Progress Matrix

Reporting Requirements		CY2010 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
p. 13, ¶1	Surface water mitigation measures will resolve adverse effects to physical diversions of senior water rights.	This requirement is a summary statement of the specific surface water mitigation measures described in the three bullets listed above. The SDS Participants are implementing the surface water mitigation measures per the Upper Arkansas Voluntary Flow Management Program and the Pueblo Flow Management Program.	No
<b>Participants' Commitments: Water Quality</b>			
p. 13, Bullet 1	Include water quality monitoring and adaptive management within the integrated adaptive management program (see Participants' General Commitments).	The Monitoring Plan has been completed and will be submitted to the Bureau of Reclamation before the contracts are finalized.	No
p. 13, Bullet 2	Begin implementing water quality monitoring when construction of the project begins. This will allow about three years of baseline data to be collected before project operations begin.	Colorado Springs Utilities has been coordinating with the U.S. Geologic Survey (USGS) on the water quality monitoring program. Water quality monitoring is anticipated to begin January 2011.	No
p. 13, Bullet 3	Submit water quality monitoring data, including trend analyses, for the preceding calendar year to Reclamation by January 31st of the subsequent year.	A Joint Funding Agreement has been executed with the U.S. Geological Survey (USGS) on the water quality monitoring program. Water quality monitoring will begin in January, 2011. See Attachment 3 for the water quality monitoring data.	Attachment 3 - Water Quality Monitoring Data (no data collected for this reporting period)
p. 13, Bullet 4	If the Colorado Department of Public Health and Environment (CDPHE) determines that operation of the SDS Project is causing significant adverse water quality effects, the Participants will coordinate with Reclamation, CDPHE, and other interested parties to evaluate and select measures to mitigate adverse effects.	This requirement is not applicable yet as SDS is under construction and not operational at this time.	No
p. 13, Bullet 5	In the event that operation of the SDS Project causes, or threatens to cause, stream flows in the Arkansas River or other waterways to diminish to low levels that will contribute significantly to elevated concentrations/ densities of dissolved selenium, <i>E. coli</i> , or sulfate, the Participants will coordinate with Reclamation, CDPHE, CDOW, and other interested parties to evaluate and select measures to mitigate adverse effects.	This requirement is not applicable yet as SDS is under construction and not operational at this time.	No

ATTACHMENT 1

Implementation Progress Matrix

Reporting Requirements		CY2010 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
p. 13, ¶1	Development and implementation of a water quality monitoring and adaptive management plan will provide a means of detecting changes in water quality, judging whether they are likely caused by operation of the SDS Project, and addressing actual effects in a systematic manner. Additionally, implementation of the geomorphology mitigation measures (below) will reduce suspended sediment and total recoverable iron concentrations in Fountain Creek and the lower Arkansas River.	This requirement is a summary statement of the specific water quality commitments described in the five bullets listed above. The Monitoring Plan, Geomorphic Mitigation Plan and IAMP have been completed. These plans will be submitted to the Bureau of Reclamation before the contracts are finalized. The plans will be implemented during the construction and operation of the SDS in accordance with this commitment.	No
<b>Participants' Commitments: Geomorphology</b>			
p. 14, Bullet 1	<p>Prepare a geomorphic mitigation plan and secure Reclamation approval prior to executing any contracts for the SDS Project. This plan could include, but is not limited to:</p> <ul style="list-style-type: none"> <li>• Evaluate and consider strategies to remove sediments that reduce the effectiveness of Corps levees located near Fountain Creek at its confluence with the Arkansas River</li> <li>• Evaluate and consider strategies to increase the sinuosity of Fountain Creek at appropriate locations in order to reduce undesirable erosion and sedimentation</li> <li>• Evaluate and consider strategies at appropriate locations along Fountain Creek to reduce undesirable erosion and sedimentation</li> <li>• Select geomorphic mitigation measures for SDS Project effects that are, to the extent practicable, consistent with priority projects identified in the Corps of Engineers' Fountain Creek Watershed Study and the Fountain Creek Corridor Master Plan. Locations where geomorphic mitigation projects could occur include, but are not limited to: <ul style="list-style-type: none"> <li>• Fountain Creek at the Clear Spring Ranch site, directly upstream and downstream of the confluence of Little Fountain Creek and Fountain Creek (approximately 4 miles)</li> <li>• Fountain Creek from upstream of Fountain Boulevard to upstream of Colorado 85/87 at the Sand Creek confluence (approximately 3 miles)</li> </ul> </li> </ul>	A Geomorphic Mitigation Plan was completed and will be submitted to the Bureau of Reclamation before the contracts are finalized. The intent of the Geomorphic Mitigation Plan is to begin data collection on or about October 15 following the start of project construction, or October 15 three years prior to the SDS commencing operations, whichever is later. Construction activities are not anticipated to be complete until 2016, therefore the monitoring will commence no later than the 2013 reporting period.	No
p. 14, Bullet 2	Complete pre-project geomorphic mitigation, including channel stabilization projects and non-structural options such as conservation easements, before the project is operational. Channel stabilization could include, but is not limited to, increasing stream sinuosity, flattening of steep side slopes, installation of grade control structures and use of buried riprap, erosion blankets, and/or vegetative cover for channel stabilization in areas of high and/or erosive velocities.	The SDS Participants have coordinated extensively with Pueblo County regarding the scope of a Fountain Creek dredging project. On August 30, 2010 an agreement was reached by which the SDS Participants will provide approximately \$2.2 million in funding to Pueblo County for the Fountain Creek dredging project. The SDS Participants made this payment to Pueblo County on September 27, 2010.	No
p. 14, Bullet 3	Design and construct an energy dissipation structure that will protect against erosion at the outlet of the pipeline from Williams Creek Reservoir to Fountain Creek.	The design of the Williams Creek Reservoir is anticipated to begin in 2020 to 2025. An energy dissipation structure at the pipe outlet will be incorporated into the design.	No



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Reporting Requirements		CY2010 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
p. 14, Bullet 4	Evaluate and implement appropriate future geomorphic stabilization projects, if such future projects are determined to be necessary after the project is operational.	This requirement is not applicable yet as SDS is under construction and not operational at this time.	No
p. 14, ¶1	When implemented, these recommendations will mitigate potential adverse effects on geomorphology by avoiding or minimizing effects of return flow discharges through an energy dissipation structure, compensating for anticipated effects, and responding to effects identified after project operations begin.	This requirement is a summary statement of the specific water quality commitments described in the five bullets listed above. A Geomorphic Mitigation Plan has been completed and will be implemented during the construction and operation of SDS in accordance with this commitment.	No
<b>Participants' Commitments: Aquatic Life</b>			
p. 15, Bullet 1	Submit a proposed wildlife mitigation plan to the Colorado Wildlife Commission (Wildlife Commission) pursuant to C.R.S. 37-60-122.2. This proposal will include actions the Participants propose to mitigate impacts that the SDS Project may have on fish and wildlife. As required by that statute, the Wildlife Commission will evaluate the probable impact of the project on fish and wildlife and, if the Participants and Wildlife Commission cannot agree upon reasonable mitigation, the Wildlife Commission will make recommendations to the Colorado Water Conservation Board (CWCB) regarding what it believes to be reasonable mitigation actions. If the Participants and the Wildlife Commission agree on a mitigation plan, the Wildlife Commission will submit that agreement to the CWCB, which must adopt the agreement as the state's official position. If the Participants and the Wildlife Commission do not reach agreement on a mitigation plan, the CWCB will consider the plan submitted by the Participants and the recommendations of the Wildlife Commission, which then becomes the State's official position, or submit its own recommendations to the Governor, who will ultimately determine the state's official position on the proposed wildlife mitigation plan.	A Wildlife Mitigation Plan was developed in cooperation with the Colorado Division of Wildlife, which was then submitted to the Colorado Wildlife Commission pursuant to C.R.S. 37-60-122.2. The Colorado Wildlife Commission approved the Wildlife Mitigation Plan and the Colorado Water Conservation Board adopted it. A Memorandum of Agreement between the SDS Participants and the Colorado Department of Natural Resources, on behalf of the Colorado Division of Wildlife, was executed May 18, 2010.	No
p. 15, Bullet 2	In the event that the operation of the SDS Project causes, or threatens to cause, stream flows in Fountain Creek or the Arkansas River to diminish to low levels that could contribute significantly to impairment of aquatic life, coordinate with Reclamation, CDPHE, CDOW and other interested parties to evaluate and select measures to mitigate adverse effects.	This requirement is not applicable yet as SDS is under construction and not operational at this time.	No

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Reporting Requirements		CY2010 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
p. 15, Bullet 3	Evaluate and consider participation in CDOW fish hatchery programs.	The Memorandum of Agreement between the SDS Participants and the Colorado Department of Natural Resources, on behalf of the Colorado Division of Wildlife (CDOW), includes a commitment that Colorado Springs Utilities will either construct 7.5 acres of fish rearing ponds for warm water species or provide \$7.5M in funding to CDOW for this construction. The MOA stipulates that construction of four (4) acres of these ponds shall be completed no later than three years prior to the date Upper Williams Creek Reservoir is placed in service. The construction of the remaining 3.5 acres of rearing ponds shall be completed no later than five (5) years after Upper Williams Creek Reservoir is in service.	No
p. 15, Bullet 4	Monitor the effects of the operation of the SDS Project upon aquatic life in Fountain Creek and the Arkansas River between Pueblo Dam and the Las Animas Gage. Aquatic sampling will be conducted once per year at up to 10 locations. Monitoring methods and locations will be identified in the proposed wildlife mitigation plan that will be submitted to the Colorado Wildlife Commission pursuant to C.R.S. 37-60-122.2. Use the information from this monitoring in the adaptive management program for the SDS Project.	This requirement is not applicable yet as SDS is under construction and not operational at this time.	No
p. 15, ¶1	When implemented, these recommendations will mitigate potential adverse effects on aquatic life by avoiding or minimizing effects, compensating for anticipated effects, and detecting and responding to effects identified after project operations begin.	This requirement is a summary statement of the specific aquatic life commitments described in the four bullets listed above. The SDS Participants will implement the Fish & Wildlife Mitigation Plan as well as the agreements from the MOA with the Colorado Department of Natural Resources during the construction and operation of SDS.	No
<b>Participants' Commitments: Wetlands, Waters, and Riparian Vegetation</b>			
p. 15, Bullet 1	Design final alignments and facilities to avoid and minimize wetland impacts.	The pipeline alignments and facilities are designed in accordance with the information that was submitted and approved by the U.S. Army Corps of Engineers with the individual 404 permit application for SDS. The requirements of the 404 permit are included into the construction contract document for each work package, as applicable.	No
p. 15, Bullet 2	Assess alternative construction methods for pipeline crossings (i.e., directional drilling v. open cut) to minimize wetland and stream impacts.	Alternative construction methods for pipeline crossings were considered during the development of the individual 404 permit application for the SDS. The final design of pipeline crossings is in accordance with the information provided in the individual 404 permit where impacts to jurisdictional waters were described.	No

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## Implementation Progress Matrix

Reporting Requirements		CY2010 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
p. 16, Bullet 3	Mitigate impacts to jurisdictional and non-jurisdictional wetlands in areas of temporary, short-term effects such as pipeline crossings, on-site at the place of disturbance with similar wetlands and soils to replace existing wetland functions and values.	The construction contract documents for each work package, as applicable, includes the 404 permit Nationwide Permit (NWP) 12 requirements for all temporary, short-term effects to jurisdictional and non-jurisdictional wetlands. The impacts will be mitigated on-site through the implementation of the NWP 12 requirements.	No
p. 16, Bullet 4	Mitigate all unavoidable, permanent impacts to jurisdictional and non-jurisdictional wetlands with compensatory wetlands that replace existing wetland functions and values. Compensatory wetland mitigation will likely occur at the Clear Spring Ranch site on Fountain Creek downstream of the City of Fountain.	Colorado Springs Utilities procured engineering design services for the compensatory wetland mitigation project at the Clear Spring Ranch site. The SDS Participants anticipate presenting the final design for Reclamation and USACE review and approval in early 2011.	No
p. 16, Bullet 5	Control Tamarisk that may establish around newly constructed reservoirs.	This requirement is not applicable yet as no reservoir construction has commenced for SDS during this reporting period.	No
p. 16, Bullet 6	Evaluate and consider a strategy to increase the sinuosity of Fountain Creek at appropriate locations in order to create wetlands areas.	The SDS Participants will consider options to increase the sinuosity of Fountain Creek at the Clear Springs Ranch site in order to create wetland areas with the design of the compensatory wetland mitigation project.	No
p. 16, Bullet 7	Evaluate and consider the construction and maintenance of new areas of wetlands along Fountain Creek in order to participate in wetlands banking programs. Evaluate and consider cooperation with Colorado agencies to expand such a wetlands creation process.	The SDS Participants will coordinate with USACE during the review of the compensatory wetland mitigation project on opportunities to participate in wetlands banking programs. The SDS Participants will present the design to Colorado agencies to consider cooperation on the wetland creation.	No
p. 16, ¶1	Mitigation plans for jurisdictional and non-jurisdictional wetlands will be submitted for approval by the Corps of Engineers and Reclamation, respectively. All design and planning measures for wetlands, waters, and riparian vegetation will be completed before any contracts for the SDS Project.	Colorado Springs Utilities procured engineering design services for the compensatory wetland mitigation project at the Clear Spring Ranch site. It is anticipated that the final design will be presented for Reclamation and USACE review and approval in early 2011.	No
p. 16, ¶2	By reviewing the location of wetlands during final design, effects on wetlands can be avoided and minimized. Specifically, the pipeline construction corridors through wetlands will be reduced to the minimum width practicable. Similarly, construction methods that do not involve trenching through a wetland will avoid impacts. Wetlands mitigated in place and off-site will replace affected wetlands on a 1:1 ratio and will provide similar functions and values. The 404 permitting process is ongoing and the final off-site mitigation ration for jurisdictional wetlands for the 404 permit has not yet been determined.	This requirement is a summary statement of the specific wetlands, waters and riparian vegetation commitments described in the seven bullets listed above. The pipeline alignments and facilities are being designed in accordance with the information that was submitted and approved by the U.S. Army Corps of Engineers with the individual 404 permit application for SDS, as applicable. The requirements of the 404 permit are included into the construction contract document for each work package, as applicable.	No

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Reporting Requirements		CY2010 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
<b>Participants' Commitments: Vegetation</b>			
p. 16, Bullet 1	Prior to final design, review locations of Needle and Thread grass -Blue Grama Grasslands, high quality shrublands and woodlands, and other areas with desirable vegetation to determine design changes within the current study area that will avoid and minimize impacts.	Pre-construction wildlife and vegetation surveys are being completed as part of the final design for each of the work packages. The results of these surveys are being incorporated into the construction contract documents as necessary.	No
p. 16, Bullet 2	Replace mature trees (diameter at breast height of 12 inches or greater) within construction areas at a 1:1 ratio with the same or similar native species with available nursery container stock or pole plantings as soon as practicable after construction activities have ended.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 16, Bullet 3	For 1 year after construction, monitor the construction areas to determine if appropriate native vegetation is establishing. If native vegetation is not establishing, the site will be reseeded with appropriate species.	This requirement is not applicable yet as SDS is under construction and not operational at this time.	No
p. 16, Bullet 4	In the appropriate season prior to construction, survey potential construction areas with known populations of dwarf milkweed and other plant species of concern, to locate areas where impacts can be avoided and minimized to the extent practicable with design changes within the current study area. After identifying populations to avoid, mark populations within or nearby the construction easement as environmentally sensitive so that workers avoid inadvertent impacts.	Pre-construction wildlife and vegetation surveys are being completed for each of the work packages. The results of these surveys are being incorporated into the construction contract documents as necessary.	No
p. 17, Bullet 5	During construction, wash major construction equipment before it enters the site so that noxious weeds are not spread from other construction sites.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 17, Bullet 6	Use certified weed-free mulch after seeding construction areas.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 17, Bullet 7	Reseed construction areas with comparable native vegetation as soon as practicable after disturbance, using seed that does not contain any noxious weed seed.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 17, Bullet 8	Monitor construction areas for 3 years after construction to assess if noxious weeds have invaded the site. If noxious weeds are present, weed control plans will be formulated and completed.	As part of the pre-construction vegetation surveys that are completed for each work package, a noxious weed survey is conducted. The noxious weed survey includes recommended weed control methods. This information is being incorporated into the contract documents. Monitoring of construction areas will continue for three years after construction to ensure that any necessary weed control is performed.	No

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Reporting Requirements		CY2010 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
p. 17, Bullet 9	Because the project may indirectly increase the spread of tamarisk, the Participants will work with the Colorado Department of Agriculture's Colorado Noxious Weed Management Team on tamarisk issues in the Arkansas Valley including submitting a request for partnership evaluation.	This requirement is not applicable at this time as there were no design or construction activities for the Upper Williams Creek and Williams Creek Reservoirs.	No
p. 17, ¶1	Impacts to plant species and communities of concern and other sensitive vegetation areas can be avoided and minimized during final design and implementation. Because mitigation measures such as transplanting of individuals are often unsuccessful, avoidance and minimization will ensure survival, especially of plant species of concern. Seeding disturbed areas, replacing mature trees, and controlling noxious weeds will replace existing vegetation types and structural diversity and will ensure that high quality habitat remained.	As described in the previous nine responses, numerous measures are being implemented to minimize potential impacts to plant species and communities of concern and other sensitive vegetation areas.	No
<b>Participants' Commitments: Wildlife</b>			
p. 17, Bullet 1	Submit a proposed wildlife mitigation plan to Colorado Wildlife Commission pursuant to C.R.S. 37-60-1212.2 as described above.	A Wildlife Mitigation Plan was developed in cooperation with the Colorado Division of Wildlife , which was then submitted to the Colorado Wildlife Commission pursuant to C.R.S. 37-60-122.2. The Colorado Wildlife Commission approved the Wildlife Mitigation Plan and the Colorado Water Conservation Board adopted it. A Memorandum of Agreement between the SDS Participants and the Colorado Department of Natural Resources, on behalf of the Colorado Division of Wildlife was executed May 18, 2010.	No
p. 17, Bullet 2	Promptly revegetate all disturbed areas with native species that provide species diversity and food and cover for large game and wildlife habitat.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 17, Bullet 3	Conduct clearance surveys in suitable habitat for state-listed species following standard protocols, as available, prior to construction (e.g., CDOW undated).	The SDS Participants are completing pre-construction wildlife and vegetation surveys as part of the final design for each of the work packages. The results of these surveys are being incorporated into the construction contract documents as necessary.	No
p. 17, Bullet 4	Conduct raptor nest surveys prior to construction and impose seasonal restrictions to surface activity within recommended buffers (generally 1/4 to 1/2 mile) around active raptor nest sites and heron rookeries during construction.	Pre-construction raptor nest and heron rookery surveys are being completed for each of the work packages. The results of these surveys are being incorporated into the construction contract documents as necessary.	No

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Reporting Requirements		CY2010 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
p. 17, Bullet 5	Consult with CDOW and U.S. Fish and Wildlife Services' Migratory Permit Bird Office to develop mitigation for unavoidable loss of raptor nests. Options may include constructing artificial nests in suitable habitat or enhancing prey habitat.	The following protocol will be used during construction of SDS: If an active nest is detected during the pre-construction raptor nest survey, Colorado Springs Utilities will coordinate with the construction contractor to ensure a buffer zone between the nest and the limit of construction is identified and the area avoided during the nesting season, or construction will be scheduled outside of the nesting season.	No
p. 17, Bullet 6	Develop construction schedules to avoid impacts to nesting migratory birds. If construction is scheduled to occur during the nesting season (April 1 through August 31) in areas where migratory birds may nest, a qualified biologist will conduct a nesting bird survey prior to the commencement of construction activities to determine the presence of migratory birds and their nests. If an active nest is detected, a buffer zone between the nest and the limit of construction will be flagged and avoided during the nesting season, or construction will be scheduled outside of the nesting season.	The following protocol will be used during construction of SDS: If an active nest is detected during the pre-construction raptor nest survey, Colorado Springs Utilities will coordinate with the construction contractor to ensure a buffer zone between the nest and the limit of construction is identified and the area avoided during the nesting season, or construction will be scheduled outside of the nesting season.	No
p. 18, Bullet 7	Conduct pre-construction surveys for swift fox den sites within appropriate habitat along the pipeline corridor and proposed reservoir sites. Avoid surface disturbance within 1/4 mile of active den sites while young are den-dependent (March 15 -June 15).	Pre-construction wildlife and vegetation surveys are being completed as part of the final design for each of the work packages. The results of these surveys are being incorporated into the construction contract documents as necessary.	No
p. 18, Bullet 8	Restrict pesticides for rodent control within swift fox overall range.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 18, Bullet 9	Mitigate impacts to state-listed amphibian species by avoiding, minimizing, and mitigating wetland effects as described above.	The 404 Individual Permit, the 404 Compensatory Wetland Mitigation Plan and the Fish and Wildlife Mitigation Plan will be followed.	No
p. 18, Bullet 10	Impose seasonal restrictions on construction to avoid sensitive large game winter habitat (from first large snowfall to summer green-up).	Pre-construction wildlife and vegetation surveys are being completed as part of the final design for each of the work packages. The results of these surveys are being incorporated into the construction contract documents as necessary.	No
p. 18, Bullet 11	Install wildlife crossovers (trench plugs) during pipeline construction with ramps on each side at a maximum of 1/4 mile intervals and at well-defined game trails.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 18, Bullet 12	Create additional nesting habitat or nest boxes in nearby trees for the Lewis' woodpecker when nest trees are destroyed.	Pre-construction wildlife and vegetation surveys are being completed as part of the final design for each of the work packages. The results of these surveys are being incorporated into the construction contract documents as necessary.	No



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Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
p. 18, ¶1	By replacing vegetation including structural diversity, the long-term effects on wildlife will be reduced by allowing wildlife to return to disturbed areas. Pre-construction surveys will identify wildlife use at the time of construction and allow for planning for avoidance and minimization. Imposing seasonal and/or daily restrictions on construction will enable wildlife to use important habitat, especially during breeding and other critical periods. Wildlife crossovers installed within the pipeline trench will facilitate wildlife passage and provide escape routes for wildlife trapped within the trench, thereby reducing mortality.	As described in the previous twelve responses, numerous measures are being implemented to minimize potential impacts to wildlife.	No
<b>Participants' Commitments: Recreation</b>			
p. 18, Bullet 1	During short-term construction activities that require trail closures of developed recreational trails, designate a safe and reasonable detour around the project site. Post signs directing trail users.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 18, Bullet 2	Work with the local municipality to establish alternate trails with consistent width, surfacing, and signage.	Colorado Springs Utilities is coordinating with affected local municipalities as needed to identify temporary alternate trails to be used or constructed during construction.	No
p. 18, Bullet 3	Within developed parks with temporary effects, commit to full reclamation of the impact area by replacing turf, irrigation systems, and other facilities that could be affected. Provide follow-up monitoring and maintenance for 1 year to ensure that reclamation efforts are successful.	There were no temporary effects to developed parks as a result of SDS construction this year. This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 18, Bullet 4	In developed park areas with permanent, above ground SDS Project facilities, reconfigure park facilities that will be directly affected and visually screen SDS Project facilities from other park uses with vegetation, berming or attractive fencing.	There were no permanent, above ground SDS Project facilities constructed in developed park areas during this reporting period.	No
p. 18, Bullet 5	Seek opportunities to enhance angling, boating, or other recreation opportunities at Lake Henry, Lake Meredith, and Holbrook Reservoir so that they are less vulnerable to water level fluctuations. Work with the CDOW to identify priority projects and include them in a proposed wildlife mitigation plan to the Colorado Wildlife Commission pursuant to C.R.S. 37-60-122.2 as above.	A Memorandum of Agreement between the SDS Participants and the Colorado Department of Natural Resources, on behalf of the Colorado Division of Wildlife, which adopted the Fish and Wildlife Mitigation Plan, was executed May 18, 2010.	No
p. 19, ¶1	The proposed mitigation measures will reduce the impact of project facility construction on trail users. They will also reduce the short- and long-term impacts of project facilities on park infrastructure, vegetation, aesthetics, and recreation experiences. Collaboration with the CDOW to enhance fishing and boating opportunities may result in such improvements to recreation at Lake Henry, Lake Meredith, and Holbrook Reservoir.	As described in the previous five responses, numerous measures are being implemented to minimize potential impacts to recreation opportunities.	No
<b>Participants' Commitments: Socioeconomics and Land Use</b>			
p. 19, Bullet 1	Acquire properties and easements through voluntary, willing participant agreements to the maximum extent practicable.	Colorado Springs is coordinating with individual landowners to acquire properties and easements through voluntary negotiations to the maximum extent practicable.	No

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Reporting Requirements		CY2010 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
p. 19, Bullet 2	Develop a construction management plan to outline best management practices to minimize impacts to surrounding properties and submit plan to Reclamation for approval prior to construction.	A Socioeconomic Construction Management Plan has been completed and will be submitted to the Bureau of Reclamation before the contracts are finalized.	No
p. 19, ¶1	Adverse short-term effects on landowners with parcels that will contain SDS features will be offset through mutually agreed upon compensation. The land use mitigation measures will minimize disturbances to properties near the project during construction or minimize land use changes and conflicts.	A Socioeconomic Construction Management Plan has been completed and will be submitted to the Bureau of Reclamation before the contracts are finalized.	No
<b>Participants' Commitments: Cultural Resources</b>			
p. 19, Bullet 1	Comply with the requirements of the Programmatic Agreement between Reclamation, the ACHP, Colorado Springs, and the Colorado SHPO (Appendix I of the FEIS).	The requirements of the Programmatic Agreement are referenced or included in the construction contract documents for each work package.	No
p. 19, ¶1	Development of the project alternatives will result in impacts to non-renewable historic properties. As a result, it will be necessary to implement a mitigation plan in an effort to resolve any adverse effects. Mitigation may be accomplished through avoidance, implementation of protective measures, or data recovery. If avoidance and preservation are not possible, a data recovery plan may be used to collect and analyze significant information, thus preserving that information. Data collection as a mitigation measure should only be implemented when other means to protect or preserve historic properties have been exhausted or are not feasible. Within the data recovery plan, specific research problems concerning scientific, humanistic, and cultural concerns will be developed. Research also will focus on problems in prehistoric and historic archaeological methods and theory. Ultimately, the data collected likely will provide information regarding the cultures that have occupied the area in the past.	Colorado Springs Utilities prepared a Treatment Plan which addresses how mitigation will be determined for each potentially eligible cultural resource site. The Treatment Plan is currently under review by the Bureau of Reclamation.	No
<b>Participants' Commitments: Indian Trust Assets</b>			
p. 19, ¶1	Continue consultation with Native American Tribes in accordance with the Programmatic Agreement. Under the Agreement, Reclamation and the SDS Participants will coordinate with the tribes to identify and mitigate impacts to any traditional cultural properties or resources.	The requirements of the Programmatic Agreement are referenced or included in the construction contract documents for each work package.	No
<b>Participants' Commitments: Noise and Vibration</b>			
p. 19, Bullet 1	Construction equipment used by contractors shall function as designed and shall conform to applicable noise emission standards.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 19, Bullet 2	Generally adhere to project work hour restrictions (7 a.m. to 7 p.m.) within 500 feet of residences, hospitals, schools, churches, and libraries. Work hours may need to be extended from time to time in order to expeditiously restore traffic flow or public access.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 3	Restrict access to construction areas so that the public could not be in close proximity to loud equipment or blasting.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No

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Reporting Requirements		CY2010 Annual Report Information	
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p. 20, Bullet 4	House project operating equipment (e.g. pump stations) in structures designed to minimize radiated noise outside the structure, and will meet local noise ordinance requirements.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, ¶1	By following existing standards, restricting work hours and access to construction areas, and insulating new noise within structures, noise effects will be minimized by maintaining acceptable noise levels and limiting the number of people exposed to increased noise levels.	As described in the previous four responses, these commitments are being incorporated into the construction contract documents to minimize potential construction and operation impacts due to noise and vibration.	No
Participants' Commitments: Visual Resources			
p. 20, Bullet 1	Vegetate earthen dam faces with native herbaceous plants to match the adjacent undisturbed prairie plant communities.	This requirement is not applicable yet as the design of the Upper Williams Creek and Williams Creek Reservoirs did not begin during this reporting period.	No
p. 20, Bullet 2	Revegetate and/or landscape with plants, all disturbances associated with the construction of all facilities.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 3	Restore as many existing grades as practicable following pipeline excavations.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 4	Enclose pump stations and well equipment in structures matching the architectural characteristics of the surrounding structures.	Colorado Springs Utilitiesbegan initial coordination with the Bureau of Reclamation and Pueblo County representatives regarding the proposed architecture for the Juniper Pump Station located at Pueblo Reservoir. Colorado Springs Utilities, on behalf of the SDS Participants, attended a Pueblo County Board of County Commissioners work session regarding the proposed architecture for the Juniper Pump Station on November 10, 2010. On November 16, 2010, the Pueblo County Board of County Commissioners passed and adopted Pueblo County Resolution No. 10-299 appointing Pueblo County’s Planning Director, Kim Headley, to be Pueblo County’s representative to participate in the final selection of architecture and landscaping for the Juniper Pump Station and approving the initial stage design presented consisting principally of the exterior treatments and architecture of the proposed pump station, including the colors and building materials.	No

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Reporting Requirements		CY2010 Annual Report Information	
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p. 20, Bullet 5	Construct powerlines with non-specular (not shiny) wire, non-reflective and opaque insulators, and light-colored, non-reflective finished poles.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 6	Reclaim construction access roads and staging areas by restoring existing grade and revegetating the area of disturbance.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 7	Apply water with standard construction practices to control airborne fugitive dust within construction areas.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 8	Install baffles on construction lighting fixtures to direct light onto the construction activity only in locations where safety is a concern, scenic quality will be affected, or near occupied homes and businesses.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, ¶1	Restoring existing grades, revegetating disturbed areas, using architectural styles consistent with the area, and designing powerlines to have low visibility will minimize the visual contrast between the surrounding areas and will reduce the visibility of disturbance or new structures from observation points. Reducing airborne fugitive dust and construction lighting will reduce the area affected during construction.	As described in the previous eight responses, these requirements are being incorporated into the designs and construction contract documents for each work package to minimize potential impacts to visual resources.	No
<b>Participants' Commitments: Traffic</b>			
p. 20, Bullet 1	Use trenchless construction to the extent practicable when construction features cross railroad lines, state highways, county roadways in densely populated areas, and major city roadways in densely populated areas.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 2	Prepare traffic control plans for approval by state and local traffic authorities and followed by contractors during construction.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 3	Construct traffic signage, signals, acceleration, and deceleration lanes as directed by state and local traffic authorities for access to reservoir sites, treatment plants, and pump stations.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 4	Construct improvements to existing access roads or construction of temporary alternate access roads to reservoir sites, treatment plants, and pump stations as directed by state and local traffic officials.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 5	Modify or reconstruct bridges when the load limits are not adequate for construction of the SDS Project and other access routes are not reasonable.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, ¶1	When implemented, these recommendations will mitigate potential adverse effects on traffic by minimizing delays and promoting traffic safety.	As described in the previous five responses, these commitments are being incorporated into the construction contract documents for each work package to minimize potential construction and operations impacts to traffic flow patterns.	No

ATTACHMENT 1

Implementation Progress Matrix

Reporting Requirements		CY2010 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
<b>Participants' Commitments: Soils</b>			
p. 21, Bullet 1	Minimize the area of disturbance to defined construction limits and limit the time bare soil is exposed.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 2	Contain soils within the construction area through temporary sediment control measures such as silt fences, sediment logs, trenches, and sediment traps.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 3	Remove woody vegetation prior to topsoil salvage and, to the extent possible, salvage topsoil within tree stump roots.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 4	Use topsoil salvage methods including windrowing topsoil at the limits of construction and pulling the soil back on slopes during reclamation.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 5	Apply topsoil, soil amendments, fertilizers, and mulches as appropriate, and seed selectively during favorable plant establishment climate conditions to match site conditions and revegetation goals.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 6	To the extent practicable, avoid irrigated lands during final design.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 7	To the extent practicable, allow continued use of lands crossed by project facilities after construction.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 8	Where the proposed pipeline crosses prime farmland soils, develop a soils handling plan that separates the top 6 inches and the soils between 6 and 36 inches for subsequent reclamation.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, ¶1	Proposed mitigation measures will reduce short-term and long-term losses of soil and soil productivity. Redistribution of topsoil to soil-deficient areas will increase soil productivity in those areas. Topsoil, soil amendments, fertilizers, and mulches will increase productivity and help establish cultivated vegetation and crops. A soils handling plan for prime farmland soils will ensure high quality topsoil is preserved and distributed properly.	As described in the previous eight responses, these commitments are being incorporated into the construction contract documents for each work package to minimize potential soil erosion and loss during construction.	No
<b>Participants' Commitments: Air Quality</b>			
p. 21, Bullet 1	Develop and implement standard control practices, such as watering, to minimize particulate and dust emissions from construction work sites as specified in the fugitive dust control plan.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 2	Ensure construction equipment (especially diesel equipment) meets opacity standards for operating emissions.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 3	Promptly revegetate disturbed areas.	The SDS Participants are incorporating this commitment into the construction contract documents for each of the work packages, as applicable.	No
p. 21, ¶1	The proposed mitigation measures will reduce both short-term and long-term effects on air quality by following standards on construction equipment and minimizing fugitive dust.	As described in the previous two responses, these commitments are being incorporated into the construction contract documents for each work package to minimize potential air quality impacts during construction.	No



ATTACHMENT 1

Implementation Progress Matrix

Reporting Requirements		CY2010 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
<b>Participants' Commitments: Hazardous Materials</b>			
p. 22, Bullet 1	Remove solid waste and properly dispose of at a permitted solid waste disposal facility prior to construction of project facilities at the site.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 22, Bullet 2	Inspect the ground surface beneath the solid waste for evidence of hazardous material or petroleum product spills such as soil staining and unusual odors or colors.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 22, Bullet 3	If evidence of a spill or spills is noted, delineate the extent of the spill by laboratory analysis and excavate any contaminated soils and properly dispose of at a permitted waste disposal facility.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 22, Bullet 4	If soil and/or ground water contamination is encountered during construction of project facilities, implement mitigation procedures to minimize the risk to construction workers and to the future operation of the project.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 22, ¶1	The proposed mitigation measures will identify areas of potential contamination from hazardous materials and will remediate the soil and ground water if any contamination was identified.	As described in the previous four responses, these commitments are being incorporated into the construction contract documents for each work package to minimize potential for a hazardous materials spill.	No
<b>El Paso County - Location Approvals</b>			
Final Resolution, Annual Report Requirement	This approval of location shall be subject to annual reporting by the applicant on January 31 annually and review by Development Services Department to determine compliance with all applicable requirements and standards of the El Paso County regulations and the conditions and safeguards imposed upon the approval of location by the Planning Commission. Upon completion of each periodic review, the Development Services Department shall forward its report and any recommendations to the Planning Commission, Board of County Commissioners and the holder of the approval of location. The annual report shall include:	This Permit Compliance Annual Report is being prepared to demonstrate the progress successfully implementing the commitments as prescribed in the ROD and the annual reporting requirements found in the other programmatic permits and approvals including: the Pueblo County 1041 Permit, the El Paso County Location Approvals, the CDPHE 401 Water Quality Certification and the Fountain Creek Watershed, Flood Control and Greenway District approval.	No
Annual Report Requirement, Sub-Bullet a	Evaluation of compliance with El Paso County conditions of approval	Compliance with the conditions of approval is being documented through the Site Development Plan processes for each work package. The Site Development Plan was approved for finished water pipeline segment FW1A on September 8. The Site Development Plan process was initiated for the S4B/N1A and N1B raw water pipeline segments with their application submittals on October 20 and November 17, respectively.	No

ATTACHMENT 1

Implementation Progress Matrix

Reporting Requirements		CY2010 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
Annual Report Requirement, Sub-Bullet b	Integrated Adaptive Management Plan	The Integrated Adaptive Management Plan (IAMP) has been completed and will be submitted to the Bureau of Reclamation before contracts are finalized. The requirements of the IAMP will be coordinated with the development of the Phase II EMS that Colorado Springs Utilities will begin developing in the next reporting period. The requirements of the IAMP are not effective until SDS is operational.	No
Annual Report Requirement, Sub-Bullet c	Dust control report	The construction contract documents require the contractor to obtain an Air Pollution Emissions Notice (APEN) through the Colorado Department of Public Health & Environment and implement dust control measures as necessary to comply with the APEN requirements.	No
Annual Report Requirement, Sub-Bullet d	Weed control report	Noxious weed surveys are being completed as part of the final design and Site Development Plan processes. A noxious weed management plan is being provided to El Paso County as part of the Site Development Plan. The noxious weed management plan requirements are incorporated into the construction contract documents for each of the work packages.	No
Annual Report Requirement, Sub-Bullet e	Wildlife management report (any occurrences or actions regarding compliance with State or federal requirements)	Wildlife surveys are being completed as part of the Site Development Plan process. Habitat and species have been identified and proposed mitigation measures are identified in the wildlife survey report. Required mitigation measures will be initiated prior to construction. The construction contract documents provides direction to the contractor regarding how to handle sensitive wildlife species habitat that could be encountered during construction.	No
Annual Report Requirement, Sub-Bullet f	Cultural resources report (any occurrences or actions regarding compliance with State or federal requirements)	Class III cultural resource surveys have been completed for the NEPA corridor. In addition, a re-consultation process has been initiated with Reclamation and SHPO to address potential impacts to cultural resources as a result of construction of SDS. Colorado Springs Utilities prepared a Treatment Plan which addresses how mitigation will be determined for each potentially eligible cultural resource site. The Treatment Plan is currently under review by the Bureau of Reclamation.	No

ATTACHMENT 1  
Implementation Progress Matrix

Reporting Requirements		CY2010 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
Annual Report Requirement, Sub-Bullet g	Groundwater and surface water monitoring report addressing water quality and quantity	A Joint Funding Agreement was executed with the U.S. Geological Survey (USGS) on the water quality monitoring program. Water quality monitoring will begin in January, 2011. See Attachment 3 for the water quality monitoring data.	Attachment 3 - Water Quality Monitoring Data (no data collected for this reporting period)
Annual Report Requirement, Sub-Bullet h	Vegetation monitoring report (status of revegetation efforts)	Since construction of the project commenced this fall, no revegetation efforts were initiated during this reporting period.	No
Annual Report Requirement, Sub-Bullet i	Complaint log and how the issues were resolved	Colorado Springs Utilities is tracking complaints received through a complaints log which includes a description of the follow-up activities that occurred to address or resolve the complaint. See Attachment 4 for the Complaint Log.	Attachment 4 - Complaint Log
Annual Report Requirement, Sub-Bullet j	Emergency response log and how the issues were resolved	Colorado Springs Utilities is tracking emergency response actions through an emergency response log which includes a description of the actions taken to resolve the issue. See Attachment 5 for the Emergency Response Log.	Attachment 5 - Emergency Response Log
Annual Report Requirement, Sub-Bullet k	Log of when work occurred during non-typical work hours (work outside the hours of 7:00 am and 6:00 pm) and rationale by which the work was deemed necessary	The typical work hours are being incorporated into the construction contract documents for each of the work packages, as applicable. Colorado Springs Utilities is tracking work which occurs during non-typical work hours through a log which includes a rationale by which the work was deemed necessary. See Attachment 6 for the Log of Work Occurring During Non-Typical Work Hours.	Attachment 6 - Log of Work Occurring During Non-Typical Work Hours



ATTACHMENT 1  
Implementation Progress Matrix

Reporting Requirements		CY2010 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
Pueblo County - 1041 permit			
7. Expenditures for Wastewater System Improvements, p. 12	In order to continue its efforts to protect against future spills to Fountain Creek, to increase its opportunities for reuse, and to mitigate possible water quality impacts by the SDS Project to Fountain Creek, Colorado Springs Utilities shall commit to invest an additional \$75,000,000 in its wastewater system. Expenditures will be made as part of the wastewater collection system rehabilitation programs or wastewater reuse systems between January 1, 2009 and December 31, 2024 as required. These expenditures shall be for projects not currently required by other regulatory permits, agency enforcement or court orders, consent agreements, or governmental regulations existing as of January 30, 2009. These expenditures will include the Local Collector Evaluation and Rehabilitation Program (LCERP) for the improvement and fortification of wastewater lines which could adversely affect Fountain Creek or its tributaries. These expenditures are subject to annual appropriation by the Colorado Springs City Council. Beginning in 2010, by January 31 of each year, Colorado Springs Utilities shall provide an annual report to Pueblo County describing such expenditures for the prior year.	Colorado Springs Utilities submitted a wastewater expenditures report documenting 2009 expenditures to Pueblo County on January 29, 2010. Colorado Springs Utilities prepared a report documenting 2010 expenditures which is being submitted to Pueblo County on January 31, 2011.	No
25. Compliance Monitoring and Reporting, p. 18	Applicant shall monitor and periodically report to Pueblo County on its compliance with this Permit. During project construction in Pueblo County, Applicant will submit a quarterly report to Pueblo County summarizing the activities during that period, forecasting activities scheduled for the upcoming period, and addressing compliance with the terms and conditions of the Permit. After commencing deliveries of water through the SDS pipeline, Applicant shall submit annual reports to Pueblo County summarizing its activities related to the SDS Project, the Permit, and addressing compliance with the terms and conditions of the Permit. Pueblo County may, at its discretion, hold public reviews of the reports and Permit compliance, including hearings in accordance with its regulations. <i>See Mitigation Appendix ENF-1.</i>	While construction activities have not officially commenced in Pueblo County, Colorado Springs Utilities is preparing a quarterly report to address pre-construction activities which occurred during the fourth quarter of this reporting period. This first quarterly report is being submitted to Pueblo County on January 31, 2011.	No

ATTACHMENT 1  
Implementation Progress Matrix

Reporting Requirements		CY2010 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
Mitigation Appendix ENF-1, Project Detail, Item 1, p. 22 of 28	<p>1. Submit a quarterly report during project construction in Pueblo County that will provide a summary of activities related to the Conditions of the permit. The report will summarize the activities occurring in the reporting period, and a forecast of activities planned in the upcoming period. Contents of the report will include (as applicable):</p> <ul style="list-style-type: none"><li>a. Safety incident log.</li><li>b. Citizen call log.</li><li>c. Description of mitigation and restoration activities (i.e., quantity and location of repaired road surface, reseeding, etc.).</li><li>d. List of non-compliance issues by contractors (silt releases, work hour infractions, fines and penalties).</li><li>e. Sustainable construction practices employed.</li><li>f. Schedule and key milestones met and forecast.</li><li>g. Location and extent of excavations.</li><li>h. Instances of work outside normal work hours, except maintenance activities.</li><li>i. Status of site maintenance, security and access control to properties.</li><li>j. Location and extent of dewatering activities.</li><li>k. Status of other required permits, including compliance with the programmatic agreement to protect cultural resources.</li><li>l. Dust monitoring summary.</li><li>m. Status of drainage and erosion control measures.</li><li>n. Status of plant and wildlife protection requirements.</li><li>o. Status of measures to protect surface and groundwater flows.</li><li>p. Status of livestock protection measures.</li><li>q. Status of Clear Spring Ranch project.</li><li>r. Status of pump station architectural review.</li><li>s. Status of land acquisition.</li><li>t. Status of compliance with requirements concerning Pueblo County Roads.</li><li>u. Status of dredging at the levees on Fountain Creek in Pueblo.</li><li>v. Status of reclamation and bonding for disturbed areas.</li><li>w. Status of the written MOU for construction and use of the North River Outlet Works.</li><li>x. Acceptance of the design of structures at Lake Pueblo Dam by the BOR.</li><li>y. Status of conservation strategies, local reuse, stormwater management, drainage regulations and enforcement.</li><li>z. Status of stormwater and wastewater system improvements per permit commitments.</li><li>aa. Status of NEPA, ROD, contract negotiations with BOR and notice of NEPA-required mitigation and any project changes resulting from contract negotiations.</li><li>bb. Status of payments in lieu of property taxes.</li><li>cc. Copies of the annual reports on the SDS Project submitted to Reclamation.</li></ul>	While construction activities have not officially commenced in Pueblo County, Springs Utilities is preparing a quarterly report to address pre-construction activities which occurred during the fourth quarter of this reporting period. This first quarterly report will be submitted to Pueblo County by January 31, 2011.	No

ATTACHMENT 1  
Implementation Progress Matrix

Reporting Requirements		CY2010 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
Mitigation Appendix ENF-1, Project Detail, Item 2, p. 23 of 28	<p>2. Submit an annual report to Pueblo County that will provide a summary of activities related to the SDS Project and the Conditions of the Permit. These reports will be due annually on or before January 31, beginning the year following commencement of water deliveries through the SDS pipeline. The reports shall include a signed certification of compliance with the Permit. Contents of the report will include, but will not be necessarily limited to:</p> <ul style="list-style-type: none"><li>a. Summary of storage, diversion, delivery of water in Pueblo County.</li><li>b. Summary of Participants’ return flows to Fountain Creek including storage and releases of such return flows (maximum daily flows, average annual and monthly flows and amounts).</li><li>c. Summaries of exchanges by Participants between Pueblo Reservoir and the Fountain Creek confluence (monthly and annual rates of flow and quantities).</li><li>d. Use of any new water rights to be delivered or stored through SDS (amount, time, source).</li><li>e. Water quality monitoring.</li><li>f. Geomorphology monitoring.</li><li>g. Status of adaptive management plans on Fountain Creek.</li><li>h. Status of payments into the Fountain Creek monetary mitigation fund.</li><li>i. Status of expenditures for wastewater system improvements for Participants (and third party users in the Fountain Creek basin) per Permit Conditions.</li><li>j. Reports on the operation of the Pueblo Flow Management Program and the Low Flow Program (rates, and quantities, and times of foregone exchanges, releases, and reception documentation).</li><li>k. Status of lake level management cooperative efforts with other entities at Pueblo Reservoir.</li><li>l. Status of conservation and local reuse.</li><li>m. Payments to Pueblo County in lieu of property taxes.</li><li>n. Copies of the annual reports on the SDS Project submitted to Reclamation.</li></ul>	The annual report requirement was not applicable during this reporting period since SDS is not operational.	No
CDPHE - 401 Water Quality Certification			
Certification Statement, Bullet 4, p. 6	All collected raw data and annual reports developed as a requirement of other agency conditions will be submitted to the Division at the same time they are submitted to the requiring regulatory agency. Data and reports will be submitted directly to the Environmental Data Unit in an electronic data format agreed to by the Division.	The SDS Permit Compliance Annual Report for Calendar Year 2010 has been prepared to address the annual reporting requirements for all of the major programmatic permits. Colorado Springs Utilities will post this annual report to the SDS website (sdswater.org) where it can be accessed by all interested regulatory agencies or members of the public.	No

ATTACHMENT 1  
Implementation Progress Matrix

Reporting Requirements		CY2010 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
Fountain Creek WFCGD - Resolution 2010-01			
Technical Advisory Committee Condition 2, p. 3 (Also Citizen Advisory Committee Condition 2)	<p>The Integrated Adaptive Management Plan (IAMP) shall be submitted to the District for review, and periodic reports on water quality and quantity shall be provided to the District.</p> <p>The Integrated Adaptive Management Plan (IAMP) will include how mitigation will be performed in case there are problems that were not anticipated during the project. This will include means and methods to address impacts from the project and specific triggers to initiate the process. Once the IAMP is finalized there will be an opportunity for comment.</p>	The IAMP has been completed and will be submitted to the Bureau of Reclamation before the contracts are finalized. The IAMP will also be provided to the District at that time. The District will be copied on next year's water quality monitoring report, after water quality monitoring begins.	No

# Monthly Average Flow Data from USGS Gauge Station No. 07106500 Fountain Creek at Pueblo

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ATTACHMENT 2

USGS Gauge Station No: 07106500

FOUNTAIN CREEK AT PUEBLO, CO

Pueblo County, Colorado

Hydrologic Unit Code 11020003

Latitude 38°17'16", Longitude 104°36'02" NAD27

Drainage area 926 square miles

Gage datum 4,705 feet above sea level NGVD29

00060, Discharge, cubic feet per second,												Annual Average Flow	
YEAR	Monthly mean in cfs (Calculation Period: 2010-01-01 -> 2010-09-30)												
	Period-of-record for statistical calculation restricted by user												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov		Dec
2010 Mean of Monthly Discharge	129.7	136.2	143.1	210.6	182.6	62.9	91.8	198.7	31	Not available as of January 26, 2011		131.8	

- Notes:
- 1. No incomplete data has been used for the statistical calculations shown in the table.
  - 2. Data in this table is from USGS National Water Information System: Web Interface ([waterdata.usgs.gov/nwis/monthly](http://waterdata.usgs.gov/nwis/monthly)).
  - 3. The annual average is computed from the monthly mean data published by the U.S. Geological Survey.



## Water Quality Monitoring Data

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No attachment is provided since there was not any water quality monitoring data collected during this reporting period. A Joint Use Agreement has been executed with the U.S. Geological Survey to begin the water quality monitoring program in January, 2011.

## Complaint Log

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No attachment is provided because no complaints regarding construction of SDS were received during this reporting period.

# Emergency Response Log

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No attachment is provided because no emergency response incidents associated with construction of SDS occurred during this reporting period.

# Log of Work Occurring During Non-Typical Work Hours

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**LOG OF NON-STANDARD WORK HOURS**  
**Southern Delivery System**

					Work Location: <b>Finished Water 1A</b>		
NON-STANDARD HOURS WORKED					AGENCY/PERSON CONTACTED	Contact By	Contact
DATE	START	END	Initials	CIRCUMSTANCES REQUIRING OFF-HOURS WORK		Phone (P) Email (E)	Date
12/29/10	6:00PM	9:00PM	BG	Day extended to accommodate the completion of the roadway pavement repair	El Paso County Office	Phone	12/29/2010
12/28/10	6:00PM	8:30PM	BG	Day extended to accommodate the completion of welding operations in order to stay on schedule	El Paso County Office	Phone	12/28/2010
10/10/10	7:00AM	5:00PM	TL	54 inch pipe installation per County direction	El Paso County Office	Phone	10/08/2010
10/09/10	7:00AM	8:00PM	TL	54 inch pipe installation per County direction	El Paso County Office	Phone	10/08/2010
10/08/10	4:00PM	11:30PM	TL	54 inch pipe installation per County direction	El Paso County Office	Phone	10/08/2010
10/03/10	7:00AM	3:30PM	TL	42 inch pipe installation per County direction	El Paso County Office	Phone	10/01/2010
10/02/10	7:00AM	8:00PM	TL	42 inch pipe installation per County direction	El Paso County Office	Phone	10/01/2010
10/01/10	4:00PM	12:00PM	TL	42 inch pipe installation per County direction	El Paso County Office	Phone	10/01/2010

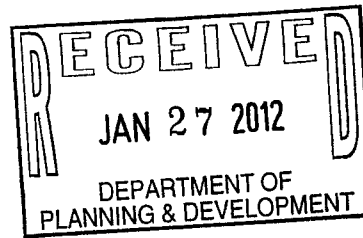


## Colorado Springs Utilities

*It's how we're all connected*

January 25, 2012

Michael J. Ryan  
Regional Director  
Great Plains Regional Office  
Bureau of Reclamation  
P.O. Box 36900  
Billings, MT 59107-6900



Subject: Southern Delivery System Permit Compliance Annual Report (Calendar Year 2011)

Mr. Ryan:

Colorado Springs Utilities, the Southern Delivery System (SDS) Project Manager, hereby submits the attached Permit Compliance Annual Report for Calendar Year 2011. Submittal of this report demonstrates the SDS Project's progress in successfully implementing the commitments prescribed in the SDS ROD, Reference No.: GP-2009-01.

Please contact me at 719-668-8037, or Allison Mosser at 719-668-8667, with any questions regarding the attached report.

Sincerely,

John A. Fredell  
Southern Delivery System Program Director

Enclosure

cc: City of Fountain, Larry Patterson, Utilities Director  
Colorado Department of Public Health and Environment, Steven Gunderson, Director,  
Water Quality Control Division  
Colorado Division of Wildlife, Dan Prenzlowl, Regional Manager, Southeast Region  
Fountain Creek Watershed Flood Control and Greenway District, Larry Small, Executive  
Director  
Pueblo County Planning & Development, Julie Ann Woods, Director  
Pueblo West Metropolitan District, Scott Eilert, Director of Utilities  
Security Water and Sanitation District, Roy Heald, District Manager  
U.S. Army Corps of Engineers, Jason D. Williams, Lieutenant Colonel, U.S. Army, District  
Commander

121 South Tejon Street, Third Floor  
P.O. Box 1103, Mail Code 930  
Colorado Springs, CO 80947-0930

Phone 719/668-4800  
Fax 719/668-8735  
<http://www.csu.org>



# **Southern Delivery System Permit Compliance Annual Report Calendar Year 2011**

Prepared for:

**Bureau of Reclamation**

**Colorado Department of Public Health and  
Environment**

**Colorado Division of Wildlife**

**El Paso County**

**Fountain Creek Watershed Flood Control and  
Greenway District**

**Pueblo County**

Submitted by:

**Colorado Springs Utilities, SDS Project Manager  
on behalf of the SDS Participants**

January 2012

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# Acronyms and Abbreviations

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1041 Permit	Pueblo County 1041 Permit No. 2008-002
BMPs	Best Management Practices
CDOW	Colorado Division of Wildlife
CDPHE	Colorado Department of Public Health and Environment
CWC	Colorado Wildlife Commission
CWCB	Colorado Water Conservation Board
EMS	Environmental Management System
FEIS	Final Environmental Impact Statement
FWMP	Fish and Wildlife Mitigation Plan
GMP	Geomorphic Mitigation Plan
IAMP	Integrated Adaptive Management Plan
mgd	million gallons per day
MP	Monitoring Plan
NEPA	National Environmental Policy Act
PCAR	Permit Compliance Annual Report
PDC	Pueblo Dam Connection
Reclamation	Bureau of Reclamation
ROD	Record of Decision
SCMP	Socioeconomic Construction Management Plan
SDS	Southern Delivery System Project
SDS Participants	City of Colorado Springs, City of Fountain, Security Water District, and Pueblo West Metropolitan District
USACE	United States Army Corps of Engineers
UWCR	Upper Williams Creek Reservoir
WCR	Williams Creek Reservoir
WTP	water treatment plant

# Executive Summary

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The Southern Delivery System Project (SDS) is a regional water delivery system that will serve the City of Colorado Springs (via Colorado Springs Utilities), City of Fountain, Security Water District, and Pueblo West Metropolitan District (collectively, the SDS Participants).

## Purpose

The purpose of the SDS Permit Compliance Annual Report (PCAR), submitted by Colorado Springs Utilities, the SDS Project Manager, is to demonstrate progress in successfully implementing the commitments as prescribed in the Record of Decision (ROD) to the Bureau of Reclamation (Reclamation). Colorado Springs Utilities also reviewed the other six programmatic permits/approvals that are in place to identify the annual reporting requirements of each. The following four permits/approvals have annual reporting requirements addressed in this report:

- El Paso County Location Approvals
  - Planning Commission Resolution U-09-002, March 2, 2010, Southern Delivery System Raw Water Pipelines
  - Planning Commission Resolution U-09-003, March 2, 2010, Southern Delivery System Finished Water Pipelines
  - Planning Commission Resolution U-09-004, March 16, 2010, Southern Delivery System Bradley Pump Station
  - Planning Commission Resolution U-09-005, March 16, 2010, Southern Delivery System Upper Williams Creek Reservoir
  - Planning Commission Resolution U-09-007, March 16, 2010, Southern Delivery System Exchange Flow System
- Pueblo County Board of County Commissioners Resolution No. P&D 09-22 approving 1041 Permit No. 2008-02, April 21, 2009
- Fountain Creek Watershed, Flood Control and Greenway District (District) Resolution 2010-01, February 26, 2010
- Colorado Department of Public Health and Environment (CDPHE) 401 Certification No. 4224, April 23, 2010, which includes the requirement to provide copies of all other annual reports

The following two programmatic permits/approvals do not specifically include annual reporting requirements.

- Memorandum of Agreement with the State of Colorado, Department of Natural Resources on behalf of the Colorado Division of Wildlife regarding the Fish and Wildlife Mitigation Plan, May 18, 2010
- United States Army Corps of Engineers Clean Water Act Section 404 Individual Permit No. SPA-2005-00131-SCO, April 26, 2010

## Reporting Requirements

The ROD requires annual reporting to summarize the SDS Project's progress made in implementing the commitments. Colorado Springs Utilities has elected to develop a single SDS PCAR that addresses the ROD commitments and the other annual or periodic reporting requirements included in the programmatic permits/approvals that are listed above.

## Summary of SDS Activities During this Reporting Period

The SDS Project has met a number of key milestones during this reporting period associated with the preparation for, and commencement of construction on SDS. Related activities included multiagency collaboration and coordination designed to meet project objectives, including full permit compliance. Colorado Springs Utilities has prepared the following documents per the commitments described in the ROD and other programmatic permits and agreements:

- Environmental Commitments Plan,
- Geomorphic Mitigation Plan,
- Integrated Adaptive Management Plan (IAMP),
- Monitoring Plan,
- Socioeconomic Construction Management Plan, and
- Cultural Resources Programmatic Agreement and Treatment Plan.

On March 15, 2011, Colorado Springs Utilities submitted the Geomorphic Mitigation Plan and the Socioeconomic Construction Management Plan to Reclamation for review and approval. Reclamation approved these plans on April 26, 2011. On March 18, 2011, Colorado Springs Utilities submitted the Environmental Commitments Plan, Monitoring Plan, and the Integrated Adaptive Management Plan to Reclamation for review and acceptance.

Contract documents for use of excess capacity, conveyance and operation of the North Outlet Works between the SDS Participants and Reclamation were signed by Reclamation on May 4, 2011. SDS Construction activities began at the Pueblo Reservoir Dam on May 9, 2011. During the reporting period, construction activities also began on the S2, S3, S4B/N1A, N1B, FW1B pipeline work packages. Pre-construction activities began on S1 pipeline work package. The FW1A pipeline was completed.

Plans for the jurisdictional wetland mitigation were completed in April, 2011, and the wetlands were constructed in September, 2011.

# 1.0 Introduction

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## 1.1 Purpose

The purpose of the SDS Permit Compliance Annual Report (PCAR), submitted by Colorado Springs Utilities as SDS Project Manager, is to demonstrate the progress in successfully implementing the commitments identified in the ROD (Reclamation 2009). This PCAR has been prepared to be consistent with the ROD and other permits issued by agencies having jurisdiction over SDS, specifically the following programmatic permits/approvals:

- Bureau of Reclamation Record of Decision for the Southern Delivery System Final Environmental Impact Statement, Record of Decision Reference No. GP-2009-01, March 20, 2009
- El Paso County Location Approvals
  - Planning Commission Resolution U-09-002, March 2, 2010, Southern Delivery System Raw Water Pipelines
  - Planning Commission Resolution U-09-003, March 2, 2010, Southern Delivery System Finished Water Pipelines
  - Planning Commission Resolution U-09-004, March 16, 2010, Southern Delivery System Bradley Pump Station
  - Planning Commission Resolution U-09-005, March 16, 2010, Southern Delivery System Upper Williams Creek Reservoir
  - Planning Commission Resolution U-09-007, March 16, 2010, Southern Delivery System Exchange Flow System
- Pueblo County Board of County Commissioners Resolution No. P&D 09-22 approving 1041 Permit No. 2008-02, April 21, 2009
- Fountain Creek Watershed, Flood Control and Greenway District (District) Resolution 2010-01, February 26, 2010
- Colorado Department of Public Health and Environment (CDPHE) 401 Certification No. 4224, April 23, 2010, which includes the requirement to provide copies of all other annual reports

Colorado Springs Utilities reviewed all seven of the programmatic permits/approvals that are in place to identify annual reporting requirements of each. The following two programmatic permits/approvals do not specifically include annual reporting requirements.

- Memorandum of Agreement with the State of Colorado, Department of Natural Resources on behalf of the Colorado Division of Wildlife regarding the Fish and Wildlife Mitigation Plan, May 18, 2010



- United States Army Corps of Engineers Clean Water Act Section 404 Individual Permit No. SPA-2005-00131-SCO, April 26, 2010

Colorado Springs Utilities prepared an Environmental Commitment Plan and developed a Phase I Environmental Management System (EMS) to track compliance with the commitments associated with all of the programmatic permits/approvals.

## 1.2 Southern Delivery System Project Overview

SDS is a proposed regional water delivery project that will serve the City of Colorado Springs (via Colorado Springs Utilities), City of Fountain, Security Water District, and Pueblo West Metropolitan District (collectively, the SDS Participants).

The first phase of SDS includes construction of the following facilities:

- A 53-mile raw water pipeline (66- and 72-inch diameter)
- Two 78-million-gallon-per-day (mgd) raw water pump stations and one 50-mgd raw water pump station (expandable in Phase 2)
- A water treatment plant (WTP) with a capacity of 50 mgd (expandable in Phase 2)
- Approximately seven miles of finished water pipelines up to 54 inches in diameter

Phase 2 of SDS includes the following:

- A 30,500 acre-feet terminal storage reservoir on upper Williams Creek, Upper Williams Creek Reservoir (UWCR)
- Expansion of the 50-mgd raw water pump station and WTP to 100-mgd capacity
- Expansion of the treated water delivery system
- A 28,000 acre-feet exchange storage reservoir on Williams Creek, Williams Creek Reservoir and exchange conveyance facilities to transfer exchange water to and from Fountain Creek

The SDS has been broken down into various work packages. The work packages and the facilities identified above are shown on Figure 1.

FIGURE 1. SOUTHERN DELIVERY SYSTEM WORK PACKAGES AND FACILITIES



## 1.3 SDS Participant Information

Contact details for the SDS Participants and their authorized agent are as follows.

### 1.3.1 SDS Participants

#### Colorado Springs Utilities

(Authorized agent acting on behalf of Participants)

Contact: John Fredell, SDS Program Director  
Plaza of the Rockies, Third Floor  
121 S. Tejon, MC930  
Colorado Springs, CO 80947  
Phone: (719) 668-8037; Fax: (719) 668-8734  
E-mail: jfredell@csu.org

#### Security Water District (Participant)

Contact: Roy Heald, District Manager  
231 Security Blvd.  
Security, CO 80911  
Phone: (719) 392-3475; Fax: (719) 390-7252  
E-mail: r.heald@securitywsd.com

#### City of Fountain (Participant)

Contact: Larry Patterson, Director of Utilities  
116 S. Main St.  
Fountain, CO 80817  
Phone: (719) 322-2076; Fax: (719) 391-0463  
E-mail: lpatterson@fountaincolorado.org

#### Pueblo West Metropolitan District (Participant)

Contact: Scott Eilert, Utilities Director  
109 E. Industrial Blvd.  
Pueblo West, CO 80017  
Phone: (719) 547-5044; Fax: (719) 547-2833  
E-mail: seilert@pwmd-co.us

## 1.4 Southern Delivery System Project Regulatory Review Process

SDS has undergone, and continues to undergo, significant regulatory oversight at the federal, state, and local levels. At the federal level, Reclamation has performed extensive and detailed environmental studies as a part of the National Environmental Policy Act (NEPA) process, the culmination of which was a Final Environmental Impact Statement (FEIS) and issuance of a ROD.

The ROD for SDS was issued on March 20, 2009. It identified SDS, as shown on Figure 1, as the Preferred Alternative. SDS has been determined to cause “the least damage to the

biological and physical environment” (Reclamation 2009). The ROD included extensive commitments by the SDS Participants to significant, long-term mitigation measures.

Because SDS crosses wetlands and other waters of the United States, it requires a permit from the United States Army Corps of Engineers (USACE) under the dredge and fill material permit program established under Section 404 of the federal Clean Water Act. A Section 404 Permit was received for SDS on April 26, 2010. Colorado Springs Utilities has developed new wetlands as compensatory mitigation under the Section 404 Permit, and provided copies of the mitigation plans to the Fountain Creek Watershed, Flood Control, and Greenway District for review. The jurisdictional wetlands mitigation project was reviewed and approved by the Fountain Creek Watershed, Flood Control, and Greenway District prior to its construction in September 2011.

At the state level, the SDS Section 404 Permit received a Certification under Section 401 of the Clean Water Act from the Colorado Department of Public Health and Environment (CDPHE) on April 23, 2010. The Colorado Division of Wildlife (CDOW) also reviewed SDS, and an SDS Fish and Wildlife Mitigation Plan (FWMP) was prepared collaboratively with CDOW staff and approved by both the Colorado Wildlife Commission (CWC) and the Colorado Water Conservation Board (CWCB) (Colorado Springs Utilities, City of Fountain, Security Water District, Pueblo West Metropolitan District, and Colorado Division of Wildlife 2010a). A Memorandum of Understanding implementing the FWMP was executed with the CDOW on May 18, 2010.

At the county and city levels, SDS is subject to a variety of regulatory reviews and associated mitigation requirements, including the following:

- Pueblo County 1041 Permit (No. 2008-002),
- El Paso County Location Approval and Site Development Plan processes, and
- Review by the Fountain Creek Watershed, Flood Control, and Greenway District (District).

Collectively, these permit conditions include comprehensive and extensive mitigation requirements, which are detailed in the respective resolutions of approval.

## 2.0 Listing of Permit Compliance Reporting Requirements for SDS

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A detailed and specific listing of the permit compliance reporting requirements for SDS for the seven programmatic permits and approvals received for SDS is provided in Attachment 1 – Implementation Progress Matrix.

The Implementation Progress Matrix contains:

- A listing of the environmental commitments for SDS with annual reporting requirements (columns 1 and 2).
- A description of SDS implementation progress towards compliance with each of the commitments (column 3).
- A field to show if additional documentation is included in an attachment to this report (column 4).

Supporting documentation listed in column 4 is provided in the following attachments:

- Attachment 2 - Monthly Average Flow Data from USGS Gauge Station
- Attachment 3 - Water Quality Monitoring Data
- Attachment 4 - Complaint Log
- Attachment 5 - Emergency Response Log
- Attachment 6 - Log of Work Occurring During Non-Typical Work Hours

## 3.0 Summary of SDS Activities Undertaken During the Reporting Period

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A number of actions have been taken during this reporting period to prepare for and begin the construction of SDS. Some of the key activities during this reporting period include the following:

### **Programmatic**

#### **Plans**

Colorado Springs Utilities prepared and submitted the following documents per the commitments described in the ROD and other programmatic permits and agreements:

- Environmental Commitments Plan
- Geomorphic Mitigation Plan
- Integrated Adaptive Management Plan (IAMP)
- Monitoring Plan
- Socioeconomic Construction Management Plan

On March 15, 2011, Colorado Springs Utilities submitted the Geomorphic Mitigation Plan and the Socioeconomic Construction Management Plan to Reclamation for review and approval. Reclamation approved these plans on April 26. On March 18, 2011, Colorado Springs Utilities submitted the Environmental Commitments Plan, Monitoring Plan, and the Integrated Adaptive Management Plan to Reclamation for review.

#### **Contracts**

Various contract documents for use of excess capacity, conveyance and operation of the North Outlet Works between the SDS Participants and the United States Department of Interior, Bureau of Reclamation (Reclamation) were signed by Reclamation on May 4, 2011.

#### **Jurisdictional Wetlands Mitigation**

Design for the jurisdictional wetlands mitigation, required to offset the permanent impact of 0.23 acres of jurisdictional wetlands by SDS, was completed in April 2011. Construction of the jurisdictional wetlands mitigation project was completed in September 2011. The project is located at Clear Spring Ranch and consists of approximately 0.25 acres of wetland plants and another approximate 0.2 acres of surrounding riparian area.

#### **Pueblo Dam Connection (PDC1A)**

SDS construction activities began at the Pueblo Reservoir Dam on May 9, 2011. Activities at Pueblo Dam have included installation of best management practices (BMPs), construction of a coffer dam, dewatering of the river channel within the coffer dam, placement of concrete for valve house foundation, concrete demolition within river outlet works tunnel,

installation of cog rail track for pipe installation, and installation of pipe within river outlet works tunnel. The location of PDC1A is shown on Figure 1.

### **S1 Pipeline**

The S1 Pipeline design was completed in July 2011. 30-day notices were provided to area residents with construction anticipated to begin in January 2012. The location of the S1 Pipeline is shown on Figure 1.

### **S2 Pipeline**

The S2 Pipeline design was completed in April 2011. Construction activities in the S2 work package include 30-day and 7-day notices provided to area residents, demolition of 5 structures along the alignment, 16 valve cut-ins on Pueblo West Metropolitan District water pipelines and associated asbestos pipe removal, installation of BMPs, rock trenching, dewatering activities, and delivery of pipe segments. The location of the S2 Pipeline is shown on Figure 1.

### **S3 Pipeline**

The S3 Pipeline design was completed in October 2011. Construction activities in the S3 work package include 30-day and 7-day notices provided to area residents, installation of BMPs, and delivery of pipe segments. The location of the S3 Pipeline is shown on Figure 1.

### **S4B/N1A**

The S4B/N1A Pipeline design was completed in November 2010. Construction activities in the S4B/N1A work package include notification to area residents and easement holders of upcoming construction, installation of BMPs, delivery of pipe segments, trenching, dewatering activities, and installation of pipe. The location of the S4B/N1A Pipeline is shown on Figure 1.

### **N1B**

The N1B Pipeline design was completed in January 2011. Construction activities in the N1B work package include notification to area residents and easement holders of upcoming construction, installation of BMPs, delivery of pipe segments, trenching, dewatering activities, and installation of pipe. The location of the N1B Pipeline is shown on Figure 1.

### **FW1A**

Construction of the FW1A, a portion of the finished water pipeline, began in September 2010. Construction of FW1A was completed in February 2011. The location of the FW1A Pipeline is shown on Figure 1.

### **FW1B**

The FW1B Pipeline design was completed in March 2011. Construction activities in the FW1B work package include notification to area residents of upcoming construction, installation of BMPs, delivery of pipe segments, trenching, and installation of pipe. The location of the FW1B Pipeline is shown on Figure 1.

In addition to the milestones listed above, Colorado Springs Utilities made the following progress on several commitments which will be on-going through the construction and operation of SDS:

- Continued identification of a location for the wetland construction to mitigate the 12.0 acres of non-jurisdictional wetlands that will be impacted as a result of SDS.
- Began transition of Phase I EMS to Phase II EMS, continuing to track compliance with programmatic permit/approval commitments and construction permit requirements.
- Included permitting and compliance requirements in design drawings and specifications, as required, for those work packages still in design.

Colorado Springs Utilities, or its selected contractors, continue to obtain a number of construction-related permits. The acquisition of these permits as well as the compliance with these permits is being tracked through the Phase I EMS.



## 4.0 References

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- Bureau of Reclamation. 2008. Southern Delivery System Final Environmental Impact Statement. December.
- Bureau of Reclamation. 2009. Record of Decision for the Southern Delivery System Project Final Environmental Impact Statement. Record of Decision Reference No. GP-2009-01. Colorado Department of Public Health and Environment. 2010. Section 401 Water Quality Certification; Colorado 401 Certification No.: 4224; U.S. COE 404 Permit No.: SPA-1995-00131-SCO; Description: Southern Delivery System; Location: El Paso and Pueblo Counties; Watercourse: Arkansas River, Fountain Creek and tributaries; Designation: Reviewable (MA01, MA02, MA03, FO02a, FO02b); Use Protected: (FO04, LA01a, LA01b). April 23
- Colorado Springs Utilities, City of Fountain, Security Water District, Pueblo West Metropolitan District, and Colorado Division of Wildlife. 2010a. Southern Delivery System Fish and Wildlife Mitigation Plan. March 11.
- El Paso County. 2010. Planning Commission Resolution U-09-002. For the Approval of Location of the Southern Delivery System Raw Water Pipeline within the A-5 (Agricultural), PUD (Planned Unit Development), RR - 2.5 (Rural Residential) and RR-5 (Residential Rural) Zone District. March 2.
- El Paso County. 2010. Planning Commission Resolution U-09-003. For the Approval of Location of the Southern Delivery System Finished Water Pipeline within the PUD (Planned Unit Development) Zone District. March 2.
- El Paso County. 2010. Planning Commission Resolution U-09-004. For the Approval of Location of the Southern Delivery System Bradley Pump Station within the RR-5 (Residential Rural) Zone District. March 16.
- El Paso County. 2010. Planning Commission Resolution U-09-005. For the Approval of Location of the Upper Williams Creek Reservoir within the RR-5 (Residential Rural) Zone District. March 16.
- El Paso County. 2010. Planning Commission Resolution U-09-007. For the Approval of Location of the Exchange Flow System within the RR-5 (Residential Rural) Zone District. March 16.
- Fountain Creek Watershed, Flood Control, and Greenway District. 2010. Board of Directors Resolution 2010-01 – Land Use. A Resolution recommending that the El Paso County Planning Commission approve applications by Colorado Springs Utilities and on behalf of the Project Participants for location approvals for the Southern Delivery System located within the Fountain Creek Watershed Management Area and approving those portions of the Southern Delivery System located within the Fountain Creek Corridor. February 26.

Pueblo County. 2009. 1041 Permit No. 2008-002. The Board of County Commissioners of Pueblo County Colorado; A Resolution Approving 1041 Permit No.2008-002 With Terms and Conditions for Construction and Use of a Municipal Water Project Known as the Southern Delivery System within Pueblo County, Colorado. April 21.

State of Colorado. 2010. Memorandum of Agreement by and between the State of Colorado, acting by and through the Department of Natural Resources, for the use and benefit of the Division of Wildlife and Colorado Springs Utilities, acting as the Project Manager for the Southern Delivery System. May 18.

U.S. Army Corps of Engineers. 2010. Department of the Army Permit; Permittee: Colorado Springs Utilities; Permit No. SPA-2005-00131-SCO; Issuing Office: Albuquerque District, U.S. Army Corps of Engineers. April 26.

# Implementation Progress Matrix

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ATTACHMENT 1  
Implementation Progress Matrix

Reporting Requirements		CY2011 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
<b>Bureau of Reclamation - Record of Decision</b>			
<b>Environmental Commitments</b>			
p. 11, ¶1	Such contracts will, at a minimum, include a requirement for the SDS Participants to submit to Reclamation an annual compliance report that certifies progress in successfully implementing these commitments in a timely manner as prescribed in this ROD and any contracts.	This Permit Compliance Annual Report is being prepared to demonstrate the progress in successfully implementing the commitments as prescribed in the ROD and the annual reporting requirements found in the other programmatic permits and approvals including: the Pueblo County 1041 Permit, the El Paso County Location Approvals, the CDPHE 401 Water Quality Certification and the Fountain Creek Watershed, Flood Control and Greenway District approval.	No
p. 11, ¶2	The Participants must obtain other significant Federal, State, and local permits, approvals, and agreements for the SDS Project.	The programmatic permits for the Southern Delivery System (SDS) are in place. The selected construction contractors are required through the contract documents to submit copies of all permits acquired. The SDS Participants are tracking the permit acquisition progress for each of the work packages as construction activities commence.	No
p. 11, ¶3	A detailed and specific list of environmental commitments and plan for their implementation will emerge from this coordination process.  The timing of this process is important. Coordination of implementation of the environmental commitment plan will occur prior to executing any contracts for the SDS Project.	An Environmental Commitments Plan was completed and submitted to the Bureau of Reclamation on March 18, 2011.	No
<b>Participants' Commitments: General Commitments</b>			
p. 12, Bullet 1	Comply with all applicable permits, regulations, and laws including but not limited to CDPHE, USCOE 404, and local land use permits obtained for the SDS Project.	Compliance with permit and regulatory requirements is being tracked through the implementation of an Environmental Management System (EMS). In addition, the construction contract documents for each of the work packages include permit and regulatory compliance requirements. The EMS ensures that all applicable actions necessary for compliance are taken in a timely manner.	No
p. 12, Bullet 2	Construct and operate the SDS Project in a manner that does not differ substantially from that evaluated in this FEIS, except under emergency conditions, and unless additional and appropriate environmental investigations are completed by Reclamation and approval is then given to Participants to alter construction or operation of the SDS Project.	The SDS Participants intend to construct and operate the preferred alternative that was identified in the FEIS in a manner that does not differ substantially from that evaluated in the FEIS.	No

ATTACHMENT 1

Implementation Progress Matrix

Reporting Requirements		CY2011 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
p. 12, Bullet 3	Develop and implement a head pressure monitoring program on the Joint Use Manifold to isolate effects attributable to the SDS Project and to mitigate those effects if they were to occur. This program will be developed over a 3-year period from the date that water is first delivered from the Joint Use Manifold for the SDS project. Development of the monitoring program will include involvement of all other Joint Use Manifold users.	This commitment is no longer applicable to SDS. The Joint Use Manifold will not be used with the construction of the Pueblo Dam Connection at the North Outlet Works.	No
p. 12, Bullet 4	Develop an integrated adaptive management program for the project that will be coordinated with the Participants' existing monitoring programs and the Environmental Management System discussed in Appendix F of the FEIS. The integrated adaptive management program will be finalized prior to executing any contracts for the SDS project.	An Integrated Adaptive Management Plan (IAMP) has been developed and was submitted to the Bureau of Reclamation on March 18, 2011. The requirements of the IAMP will be coordinated with the development of the Phase II EMS that Colorado Springs Utilities is developing. The requirements of the IAMP are not effective until SDS is operational.	No
<b>Participants' Commitments: Surface Water</b>			
p. 12, Bullet 1	Comply with the Upper Arkansas Voluntary Flow Management Program except during emergency conditions as defined in Section 2.b. of the Memorandum Of Understanding for Settlement of Case No. 04CW129, Water Division 2 (Chaffee County Recreation In-Channel Diversion).	The SDS Participants will comply with the Upper Arkansas Voluntary Flow Management Program.	No
p. 13, Bullet 2	Comply with the Pueblo Flow Management Program pursuant to existing intergovernmental agreements. If Reclamation and the Participants receive credible information that project operations are impairing physical diversion of a senior water right, contrary to Colorado water law, the Participants will immediately initiate discussions among the parties, including the party alleging the impairment of Reclamation, to develop a solution and remedy the impairment in compliance with Colorado water law.	The SDS Participants will comply with the Pueblo Flow Management Program.	No
p. 13, Bullet 3	Participants will consult with Reclamation each year on the average annual flow in Fountain Creek. If the average annual stream flow of Fountain Creek as measured at Pueblo (USGS gauge station number 07106500) exceeds the scope and range of the flow estimated and analyzed in the Final Environmental Impact Statement (see Table 33 of the FEIS), then Participants will coordinate with Reclamation, within their adaptive management plan, to evaluate the cause(s) for the change in flows and determine whether appropriate response actions, such as monitoring and/or mitigation measures, are warranted. Each year, Participants will report to Reclamation the average annual flow in Fountain Creek at Pueblo together with other relevant data.	The average annual flow during this reporting period in Fountain Creek as measured at USGS gauge station number 07106500 was approximately 100.8 cubic feet per second (cfs). Table 33 of the FEIS reported the existing condition average annual simulated streamflow at this location as 188 cfs. As construction of the Southern Delivery System project started during this reporting period, no flows have been introduced to Fountain Creek as a result of this project. See Attachment 2 for the monthly average flow data from USGS Gauge Station Number 07106500.	Attachment 2 - Monthly Average Flow Data from USGS Gauge Station Number 07106500

ATTACHMENT 1  
Implementation Progress Matrix

Reporting Requirements		CY2011 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
p. 13, ¶1	Surface water mitigation measures will resolve adverse effects to physical diversions of senior water rights.	This requirement is a summary statement of the specific surface water mitigation measures described in the three bullets listed above. The SDS Participants are implementing the surface water mitigation measures per the Upper Arkansas Voluntary Flow Management Program and the Pueblo Flow Management Program.	No
<b>Participants' Commitments: Water Quality</b>			
p. 13, Bullet 1	Include water quality monitoring and adaptive management within the integrated adaptive management program (see Participants' General Commitments).	The Monitoring Plan has been completed and was submitted to the Bureau of Reclamation on March 18, 2011.	No
p. 13, Bullet 2	Begin implementing water quality monitoring when construction of the project begins. This will allow about three years of baseline data to be collected before project operations begin.	Colorado Springs Utilities has been coordinating with the U.S. Geologic Survey (USGS) on the water quality monitoring program. Water quality monitoring began in January 2011.	Attachment 3 - Water Quality Monitoring Data
p. 13, Bullet 3	Submit water quality monitoring data, including trend analyses, for the preceding calendar year to Reclamation by January 31st of the subsequent year.	A Joint Funding Agreement has been executed with the U.S. Geological Survey (USGS) on the water quality monitoring program. Water quality monitoring began in January, 2011. See Attachment 3 for the water quality monitoring data.	Attachment 3 - Water Quality Monitoring Data
p. 13, Bullet 4	If the Colorado Department of Public Health and Environment (CDPHE) determines that operation of the SDS Project is causing significant adverse water quality effects, the Participants will coordinate with Reclamation, CDPHE, and other interested parties to evaluate and select measures to mitigate adverse effects.	This requirement is not applicable yet as SDS is under construction and not operational at this time.	No
p. 13, Bullet 5	In the event that operation of the SDS Project causes, or threatens to cause, stream flows in the Arkansas River or other waterways to diminish to low levels that will contribute significantly to elevated concentrations/densities of dissolved selenium, <i>E. coli</i> , or sulfate, the Participants will coordinate with Reclamation, CDPHE, CDOW, and other interested parties to evaluate and select measures to mitigate adverse effects.	This requirement is not applicable yet as SDS is under construction and not operational at this time.	No

ATTACHMENT 1  
Implementation Progress Matrix

Reporting Requirements		CY2011 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
p. 13, ¶1	Development and implementation of a water quality monitoring and adaptive management plan will provide a means of detecting changes in water quality, judging whether they are likely caused by operation of the SDS Project, and addressing actual effects in a systematic manner. Additionally, implementation of the geomorphology mitigation measures (below) will reduce suspended sediment and total recoverable iron concentrations in Fountain Creek and the lower Arkansas River.	This requirement is a summary statement of the specific water quality commitments described in the five bullets listed above. The Monitoring Plan, Geomorphic Mitigation Plan and IAMP have been completed. These plans were submitted to the Bureau of Reclamation in March 2011. The plans will be implemented during the construction and operation of the SDS in accordance with this commitment. SDS Participants are working cooperatively with those who hold senior water right decrees to ensure that any potential adverse impacts to their diversion structures are appropriately mitigated.	No
<b>Participants' Commitments: Geomorphology</b>			
p. 14, Bullet 1	<p>Prepare a geomorphic mitigation plan and secure Reclamation approval prior to executing any contracts for the SDS Project. This plan could include, but is not limited to:</p> <ul style="list-style-type: none"> <li>• Evaluate and consider strategies to remove sediments that reduce the effectiveness of Corps levees located near Fountain Creek at its confluence with the Arkansas River</li> <li>• Evaluate and consider strategies to increase the sinuosity of Fountain Creek at appropriate locations in order to reduce undesirable erosion and sedimentation</li> <li>• Evaluate and consider strategies at appropriate locations along Fountain Creek to reduce undesirable erosion and sedimentation</li> <li>• Select geomorphic mitigation measures for SDS Project effects that are, to the extent practicable, consistent with priority projects identified in the Corps of Engineers' Fountain Creek Watershed Study and the Fountain Creek Corridor Master Plan. Locations where geomorphic mitigation projects could occur include, but are not limited to: <ul style="list-style-type: none"> <li>• Fountain Creek at the Clear Spring Ranch site, directly upstream and downstream of the confluence of Little Fountain Creek and Fountain Creek (approximately 4 miles)</li> <li>• Fountain Creek from upstream of Fountain Creek Boulevard to upstream of Colorado 85/87 at the Sand Creek confluence (approximately 3 miles)</li> </ul> </li> </ul>	A Geomorphic Mitigation Plan was completed and was submitted to the Bureau of Reclamation on March 15. The Bureau of Reclamation approved this plan on April 26, 2011. The intent of the Geomorphic Mitigation Plan is to begin data collection on or about October 15 following the start of project construction, or October 15 three years prior to the SDS commencing operations, whichever is later. Construction activities are not anticipated to be complete until 2016, therefore the monitoring will commence no later than the 2013 reporting period.	No
p. 14, Bullet 2	Complete pre-project geomorphic mitigation, including channel stabilization projects and non-structural options such as conservation easements, before the project is operational. Channel stabilization could include, but is not limited to, increasing stream sinuosity, flattening of steep side slopes, installation of grade control structures and use of buried riprap, erosion blankets, and/or vegetative cover for channel stabilization in areas of high and/or erosive velocities.	The SDS Participants have coordinated extensively with Pueblo County regarding the scope of a Fountain Creek dredging project. On August 30, 2010 an agreement was reached by which the SDS Participants will provide approximately \$2.2 million in funding to Pueblo County for the Fountain Creek dredging project. The SDS Participants made this payment to Pueblo County on September 27, 2010.	No

ATTACHMENT 1  
Implementation Progress Matrix

Reporting Requirements		CY2011 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
p. 14, Bullet 3	Design and construct an energy dissipation structure that will protect against erosion at the outlet of the pipeline from Williams Creek Reservoir to Fountain Creek.	The design of the Williams Creek Reservoir is anticipated to begin during the period from 2020 to 2025. An energy dissipation structure at the pipe outlet will be incorporated into the design.	No
p. 14, Bullet 4	Evaluate and implement appropriate future geomorphic stabilization projects, if such future projects are determined to be necessary after the project is operational.	This requirement is not applicable yet as SDS is under construction and not operational at this time. It is yet to be determined if project operations will necessitate such projects.	No
p. 14, ¶1	When implemented, these recommendations will mitigate potential adverse effects on geomorphology by avoiding or minimizing effects of return flow discharges through an energy dissipation structure, compensating for anticipated effects, and responding to effects identified after project operations begin.	This requirement is a summary statement of the specific water quality commitments described in the five bullets listed above. A Geomorphic Mitigation Plan has been completed and will be implemented during the construction and operation of SDS in accordance with this commitment.	No
<b>Participants' Commitments: Aquatic Life</b>			
p. 15, Bullet 1	Submit a proposed wildlife mitigation plan to the Colorado Wildlife Commission (Wildlife Commission) pursuant to C.R.S. 37-60-122.2. This proposal will include actions the Participants propose to mitigate impacts that the SDS Project may have on fish and wildlife. As required by that statute, the Wildlife Commission will evaluate the probable impact of the project on fish and wildlife and, if the Participants and Wildlife Commission cannot agree upon reasonable mitigation, the Wildlife Commission will make recommendations to the Colorado Water Conservation Board (CWCBC) regarding what it believes to be reasonable mitigation actions. If the Participants and the Wildlife Commission agree on a mitigation plan, the Wildlife Commission will submit that agreement to the CWCBC, which must adopt the agreement as the state's official position. If the Participants and the Wildlife Commission do not reach agreement on a mitigation plan, the CWCBC will consider the plan submitted by the Participants and the recommendations of the Wildlife Commission, which then becomes the State's official position, or submit its own recommendations to the Governor, who will ultimately determine the state's official position on the proposed wildlife mitigation plan.	A Wildlife Mitigation Plan was developed in cooperation with the Colorado Division of Wildlife, which was then submitted to the Colorado Wildlife Commission pursuant to C.R.S. 37-60-122.2. The Colorado Wildlife Commission approved the Wildlife Mitigation Plan and the Colorado Water Conservation Board adopted it. A Memorandum of Agreement between the SDS Participants and the Colorado Department of Natural Resources, on behalf of the Colorado Division of Wildlife, was executed May 18, 2010.	No
p. 15, Bullet 2	In the event that the operation of the SDS Project causes, or threatens to cause, stream flows in Fountain Creek or the Arkansas River to diminish to low levels that could contribute significantly to impairment of aquatic life, coordinate with Reclamation, CDPHE, CDOW and other interested parties to evaluate and select measures to mitigate adverse effects.	This requirement is not applicable yet as SDS is under construction and not operational at this time.	No



ATTACHMENT 1

Implementation Progress Matrix

Reporting Requirements		CY2011 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
p. 15, Bullet 3	Evaluate and consider participation in CDOW fish hatchery programs.	The Memorandum of Agreement between the SDS Participants and the Colorado Department of Natural Resources, on behalf of the Colorado Division of Wildlife (CDOW), includes a commitment that Colorado Springs Utilities will either construct 7.5 acres of fish rearing ponds for warm water species or provide \$7.5M in funding to CDOW for this construction. The MOA stipulates that construction of four (4) acres of these ponds shall be completed no later than three years prior to the date Upper Williams Creek Reservoir is placed in service. The construction of the remaining 3.5 acres of rearing ponds shall be completed no later than five (5) years after Upper Williams Creek Reservoir is in service.	No
p. 15, Bullet 4	Monitor the effects of the operation of the SDS Project upon aquatic life in Fountain Creek and the Arkansas River between Pueblo Dam and the Las Animas Gage. Aquatic sampling will be conducted once per year at up to 10 locations. Monitoring methods and locations will be identified in the proposed wildlife mitigation plan that will be submitted to the Colorado Wildlife Commission pursuant to C.R.S. 37-60-122.2. Use the information from this monitoring in the adaptive management program for the SDS Project.	This requirement is not applicable yet as SDS is under construction and not operational at this time.	No
p. 15, ¶1	When implemented, these recommendations will mitigate potential adverse effects on aquatic life by avoiding or minimizing effects, compensating for anticipated effects, and detecting and responding to effects identified after project operations begin.	This requirement is a summary statement of the specific aquatic life commitments described in the four bullets listed above. The SDS Participants will implement the Fish & Wildlife Mitigation Plan as well as the agreements from the MOA with the Colorado Department of Natural Resources during the construction and operation of SDS.	No
<b>Participants' Commitments: Wetlands, Waters, and Riparian Vegetation</b>			
p. 15, Bullet 1	Design final alignments and facilities to avoid and minimize wetland impacts.	The pipeline alignments and facilities are designed in accordance with the information that was submitted and approved by the U.S. Army Corps of Engineers with the individual 404 permit application for SDS. The requirements of the 404 permit are included in the construction contract document for each work package, as applicable.	No

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p. 15, Bullet 2	Assess alternative construction methods for pipeline crossings (i.e., directional drilling v. open cut) to minimize wetland and stream impacts.	Alternative construction methods for pipeline crossings were considered during the development of the individual 404 permit application for the SDS. The final design of pipeline crossings is in accordance with the information provided in the individual 404 permit where impacts to jurisdictional waters were described.	No
p. 16, Bullet 3	Mitigate impacts to jurisdictional and non-jurisdictional wetlands in areas of temporary, short-term effects such as pipeline crossings, on-site at the place of disturbance with similar wetlands and soils to replace existing wetland functions and values.	The construction contract documents for each work package, as applicable, includes the 404 permit Nationwide Permit (NWP) 12 requirements for all temporary, short-term effects to jurisdictional and non-jurisdictional wetlands. The impacts will be mitigated on-site through the implementation of the NWP 12 requirements.	No
p. 16, Bullet 4	Mitigate all unavoidable, permanent impacts to jurisdictional and non-jurisdictional wetlands with compensatory wetlands that replace existing wetland functions and values. Compensatory wetland mitigation will likely occur at the Clear Spring Ranch site on Fountain Creek downstream of the City of Fountain.	Colorado Springs Utilities procured engineering design services for the compensatory wetland mitigation project at the Clear Spring Ranch site. The SDS Participants presented the final design for Reclamation and USACE review and approval in April 2011. The jurisdictional wetlands mitigation project was constructed in September 2011.	No
p. 16, Bullet 5	Control Tamarisk that may establish around newly constructed reservoirs.	This requirement is not applicable yet as no reservoir construction has commenced for SDS during this reporting period.	No
p. 16, Bullet 6	Evaluate and consider a strategy to increase the sinuosity of Fountain Creek at appropriate locations in order to create wetlands areas.	The SDS Participants will consider options to increase the sinuosity of Fountain Creek at the Clear Springs Ranch site in order to create wetland areas with the design of the compensatory wetland mitigation project.	No
p. 16, Bullet 7	Evaluate and consider the construction and maintenance of new areas of wetlands along Fountain Creek in order to participate in wetlands banking programs. Evaluate and consider cooperation with Colorado agencies to expand such a wetlands creation process.	The USACE verbally denied Colorado Springs Utilities the opportunity of a wetland banking partnership with Colorado agencies, stating that Colorado Springs Utilities cannot share the umbrella of a wetland banking tool. Therefore, there is no incentive for Colorado Springs Utilities and another agency to work together under the intent of this condition.	No
p. 16, ¶1	Mitigation plans for jurisdictional and non-jurisdictional wetlands will be submitted for approval by the Corps of Engineers and Reclamation, respectively. All design and planning measures for wetlands, waters, and riparian vegetation will be completed before any contracts for the SDS Project.	Colorado Springs Utilities procured engineering design services for the compensatory wetland mitigation project at the Clear Spring Ranch site. The SDS Participants presented the final design for Reclamation and USACE review and approval in April 2011. The jurisdictional wetlands mitigation project was constructed in September 2011.	No

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p. 16, ¶2	By reviewing the location of wetlands during final design, effects on wetlands can be avoided and minimized. Specifically, the pipeline construction corridors through wetlands will be reduced to the minimum width practicable. Similarly, construction methods that do not involve trenching through a wetland will avoid impacts. Wetlands mitigated in place and off-site will replace affected wetlands on a 1:1 ratio and will provide similar functions and values. The 404 permitting process is ongoing and the final off-site mitigation ration for jurisdictional wetlands for the 404 permit has not yet been determined.	This requirement is a summary statement of the specific wetlands, waters and riparian vegetation commitments described in the seven bullets listed above. The pipeline alignments and facilities are being designed in accordance with the information that was submitted and approved by the U.S. Army Corps of Engineers with the individual 404 permit application for SDS, as applicable. Wetland impacts were minimized. The requirements of the 404 permit are included into the construction contract document for each work package, as applicable.	No
<b>Participants' Commitments: Vegetation</b>			
p. 16, Bullet 1	Prior to final design, review locations of Needle and Thread grass -Blue Grama Grasslands, high quality shrublands and woodlands, and other areas with desirable vegetation to determine design changes within the current study area that will avoid and minimize impacts.	Pre-construction wildlife and vegetation surveys are being completed as part of the final design for each of the work packages. The results of these surveys are being incorporated into the construction contract documents as necessary.	No
p. 16, Bullet 2	Replace mature trees (diameter at breast height of 12 inches or greater) within construction areas at a 1:1 ratio with the same or similar native species with available nursery container stock or pole plantings as soon as practicable after construction activities have ended.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 16, Bullet 3	For 1 year after construction, monitor the construction areas to determine if appropriate native vegetation is establishing. If native vegetation is not establishing, the site will be reseeded with appropriate species.	The FW1A pipeline has been reseeded and is being monitored.	No
p. 16, Bullet 4	In the appropriate season prior to construction, survey potential construction areas with known populations of dwarf milkweed and other plant species of concern, to locate areas where impacts can be avoided and minimized to the extent practicable with design changes within the current study area. After identifying populations to avoid, mark populations within or nearby the construction easement as environmentally sensitive so that workers avoid inadvertent impacts.	Pre-construction wildlife and vegetation surveys are being completed for each of the work packages. The results of these surveys are being incorporated into the construction contract documents as necessary.	No
p. 17, Bullet 5	During construction, wash major construction equipment before it enters the site so that noxious weeds are not spread from other construction sites.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 17, Bullet 6	Use certified weed-free mulch after seeding construction areas.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 17, Bullet 7	Reseed construction areas with comparable native vegetation as soon as practicable after disturbance, using seed that does not contain any noxious weed seed.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No

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p. 17, Bullet 8	Monitor construction areas for 3 years after construction to assess if noxious weeds have invaded the site. If noxious weeds are present, weed control plans will be formulated and completed.	As part of the pre-construction vegetation surveys that are completed for each work package, a noxious weed survey is conducted. The noxious weed survey includes recommended weed control methods. This information is being incorporated into the contract documents. Monitoring of construction areas will continue for three years after construction to ensure that any necessary weed control is performed.	No
p. 17, Bullet 9	Because the project may indirectly increase the spread of tamarisk, the Participants will work with the Colorado Department of Agriculture's Colorado Noxious Weed Management Team on tamarisk issues in the Arkansas Valley including submitting a request for partnership evaluation.	The Fish and Wildlife Mitigation Plan has identified the inlet area at the Pueblo Reservoir as an area of specific interest and identified the Colorado Department of Agriculture's Colorado Noxious Weed Management as a consulting agency.	No
p. 17, ¶1	Impacts to plant species and communities of concern and other sensitive vegetation areas can be avoided and minimized during final design and implementation. Because mitigation measures such as transplanting of individuals are often unsuccessful, avoidance and minimization will ensure survival, especially of plant species of concern. Seeding disturbed areas, replacing mature trees, and controlling noxious weeds will replace existing vegetation types and structural diversity and will ensure that high quality habitat remained.	As described in the previous nine responses, numerous measures are being implemented to minimize potential impacts to plant species and communities of concern and other sensitive vegetation areas.	No
<b>Participants' Commitments: Wildlife</b>			
p. 17, Bullet 1	Submit a proposed wildlife mitigation plan to Colorado Wildlife Commission pursuant to C.R.S. 37-60-1212.2 as described above.	A Wildlife Mitigation Plan was developed in cooperation with the Colorado Division of Wildlife , which was then submitted to the Colorado Wildlife Commission pursuant to C.R.S. 37-60-122.2. The Colorado Wildlife Commission approved the Wildlife Mitigation Plan and the Colorado Water Conservation Board adopted it. A Memorandum of Agreement between the SDS Participants and the Colorado Department of Natural Resources, on behalf of the Colorado Division of Wildlife was executed May 18, 2010.	No
p. 17, Bullet 2	Promptly revegetate all disturbed areas with native species that provide species diversity and food and cover for large game and wildlife habitat.	This commitment is being incorporated into the revegetation contract documents for each of the work packages, as applicable.	No
p. 17, Bullet 3	Conduct clearance surveys in suitable habitat for state-listed species following standard protocols, as available, prior to construction (e.g., CDOW undated).	The SDS Participants are completing pre-construction wildlife and vegetation surveys as part of the final design for each of the work packages. The results of these surveys are being incorporated into the construction contract documents as necessary.	No

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p. 17, Bullet 4	Conduct raptor nest surveys prior to construction and impose seasonal restrictions to surface activity within recommended buffers (generally 1/4 to 1/2 mile) around active raptor nest sites and heron rookeries during construction.	Pre-construction raptor nest and heron rookery surveys are being completed for each of the work packages. The results of these surveys are being incorporated into the construction contract documents as necessary.	No
p. 17, Bullet 5	Consult with CDOW and U.S. Fish and Wildlife Services' Migratory Permit Bird Office to develop mitigation for unavoidable loss of raptor nests. Options may include constructing artificial nests in suitable habitat or enhancing prey habitat.	The following protocol identified in the Fish and Wildlife Plan will be used during construction of SDS: If a nest is detected during the pre-construction raptor nest survey, Colorado Springs Utilities will coordinate with Colorado Division of Wildlife and USFWS to develop mitigation for unavoidable raptor nest loss. A nest has been identified in one of the pipeline alignments and CDOW was consulted as a lead agency. A raptor nest mitigation plan was submitted and approved and Colorado Springs Utilities is in the process of mitigating the nest.	No
p. 17, Bullet 6	Develop construction schedules to avoid impacts to nesting migratory birds. If construction is scheduled to occur during the nesting season (April 1 through August 31) in areas where migratory birds may nest, a qualified biologist will conduct a nesting bird survey prior to the commencement of construction activities to determine the presence of migratory birds and their nests. If an active nest is detected, a buffer zone between the nest and the limit of construction will be flagged and avoided during the nesting season, or construction will be scheduled outside of the nesting season.	The following protocol will be used during construction of SDS: If an active nest is detected during the pre-construction raptor nest survey, Colorado Springs Utilities will coordinate with Colorado Division of Wildlife and the construction contractor to ensure a buffer zone between the nest and the limit of construction is identified and the area avoided during the nesting season, or construction will be scheduled outside of the nesting season.	No
p. 18, Bullet 7	Conduct pre-construction surveys for swift fox den sites within appropriate habitat along the pipeline corridor and proposed reservoir sites. Avoid surface disturbance within 1/4 mile of active den sites while young are den-dependent (March 15 -June 15).	Pre-construction wildlife and vegetation surveys are being completed as part of the final design for each of the work packages. The results of these surveys are being incorporated into the construction contract documents as necessary.	No
p. 18, Bullet 8	Restrict pesticides for rodent control within swift fox overall range.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 18, Bullet 9	Mitigate impacts to state-listed amphibian species by avoiding, minimizing, and mitigating wetland effects as described above.	The 404 Individual Permit, the 404 Compensatory Wetland Mitigation Plan and the Fish and Wildlife Mitigation Plan will be followed.	No
p. 18, Bullet 10	Impose seasonal restrictions on construction to avoid sensitive large game winter habitat (from first large snowfall to summer green-up).	Pre-construction wildlife and vegetation surveys are being completed as part of the final design for each of the work packages. The results of these surveys are being incorporated into the construction contract documents as necessary.	No
p. 18, Bullet 11	Install wildlife crossovers (trench plugs) during pipeline construction with ramps on each side at a maximum of 1/4 mile intervals and at well-defined game trails.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 18, Bullet 12	Create additional nesting habitat or nest boxes in nearby trees for the Lewis' woodpecker when nest trees are destroyed.	Pre-construction wildlife and vegetation surveys are being completed as part of the final design for each of the work packages. No Lewis' woodpecker nests have been identified to date.	No

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p. 18, ¶1	By replacing vegetation including structural diversity, the long-term effects on wildlife will be reduced by allowing wildlife to return to disturbed areas. Pre-construction surveys will identify wildlife use at the time of construction and allow for planning for avoidance and minimization. Imposing seasonal and/or daily restrictions on construction will enable wildlife to use important habitat, especially during breeding and other critical periods. Wildlife crossovers installed within the pipeline trench will facilitate wildlife passage and provide escape routes for wildlife trapped within the trench, thereby reducing mortality.	As described in the previous twelve responses, numerous measures are being implemented to minimize potential impacts to wildlife. These measures have been incorporated in the construction contract documents. Measures have been implemented and some measures, such as ramps in the trenches have been placed at shorter intervals than required.	No
<b>Participants' Commitments: Recreation</b>			
p. 18, Bullet 1	During short-term construction activities that require trail closures of developed recreational trails, designate a safe and reasonable detour around the project site. Post signs directing trail users.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 18, Bullet 2	Work with the local municipality to establish alternate trails with consistent width, surfacing, and signage.	Colorado Springs Utilities is coordinating with affected local municipalities as needed to identify temporary alternate trails to be used or constructed during construction.	No
p. 18, Bullet 3	Within developed parks with temporary effects, commit to full reclamation of the impact area by replacing turf, irrigation systems, and other facilities that could be affected. Provide follow-up monitoring and maintenance for 1 year to ensure that reclamation efforts are successful.	There were no temporary effects to developed parks as a result of SDS construction this year. This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 18, Bullet 4	In developed park areas with permanent, above ground SDS Project facilities, reconfigure park facilities that will be directly affected and visually screen SDS Project facilities from other park uses with vegetation, berming or attractive fencing.	There were no permanent, above ground SDS Project facilities constructed in developed park areas during this reporting period.	No
p. 18, Bullet 5	Seek opportunities to enhance angling, boating, or other recreation opportunities at Lake Henry, Lake Meredith, and Holbrook Reservoir so that they are less vulnerable to water level fluctuations. Work with the CDOW to identify priority projects and include them in a proposed wildlife mitigation plan to the Colorado Wildlife Commission pursuant to C.R.S. 37-60-122.2 as above.	A Memorandum of Agreement between the SDS Participants and the Colorado Department of Natural Resources, on behalf of the Colorado Division of Wildlife, which adopted the Fish and Wildlife Mitigation Plan, was executed May 18, 2010.	No
p. 19, ¶1	The proposed mitigation measures will reduce the impact of project facility construction on trail users. They will also reduce the short- and long-term impacts of project facilities on park infrastructure, vegetation, aesthetics, and recreation experiences. Collaboration with the CDOW to enhance fishing and boating opportunities may result in such improvements to recreation at Lake Henry, Lake Meredith, and Holbrook Reservoir.	As described in the previous five responses, numerous measures are being implemented to minimize potential impacts to recreation opportunities.	No

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<b>Participants' Commitments: Socioeconomics and Land Use</b>			
p. 19, Bullet 1	Acquire properties and easements through voluntary, willing participant agreements to the maximum extent practicable.	Colorado Springs is coordinating with individual landowners to acquire properties and easements through voluntary negotiations to the maximum extent practicable.	No
p. 19, Bullet 2	Develop a construction management plan to outline best management practices to minimize impacts to surrounding properties and submit plan to Reclamation for approval prior to construction.	A Socioeconomic Construction Management Plan has been completed and was submitted to the Bureau of Reclamation on March 15, 2011. The Bureau of Reclamation approved this plan on April 26, 2011.	No
p. 19, ¶1	Adverse short-term effects on landowners with parcels that will contain SDS features will be offset through mutually agreed upon compensation. The land use mitigation measures will minimize disturbances to properties near the project during construction or minimize land use changes and conflicts.	A Socioeconomic Construction Management Plan has been completed and was submitted to the Bureau of Reclamation on March 15, 2011. The Bureau of Reclamation approved this plan on April 26, 2011. The plan provided for appropriate compensation and mitigation.	No
<b>Participants' Commitments: Cultural Resources</b>			
p. 19, Bullet 1	Comply with the requirements of the Programmatic Agreement between Reclamation, the ACHP, Colorado Springs, and the Colorado SHPO (Appendix I of the FEIS).	The requirements of the Programmatic Agreement are referenced or included in the construction contract documents for each work package.	No
p. 19, ¶1	Development of the project alternatives will result in impacts to non-renewable historic properties. As a result, it will be necessary to implement a mitigation plan in an effort to resolve any adverse effects. Mitigation may be accomplished through avoidance, implementation of protective measures, or data recovery. If avoidance and preservation are not possible, a data recovery plan may be used to collect and analyze significant information, thus preserving that information. Data collection as a mitigation measure should only be implemented when other means to protect or preserve historic properties have been exhausted or are not feasible. Within the data recovery plan, specific research problems concerning scientific, humanistic, and cultural concerns will be developed. Research also will focus on problems in prehistoric and historic archaeological methods and theory. Ultimately, the data collected likely will provide information regarding the cultures that have occupied the area in the past.	Colorado Springs Utilities prepared a Treatment Plan which addresses how mitigation will be determined for each eligible or potentially eligible cultural resource site. The Treatment Plan was executed in June 2011.	No
<b>Participants' Commitments: Indian Trust Assets</b>			
p. 19, ¶1	Continue consultation with Native American Tribes in accordance with the Programmatic Agreement. Under the Agreement, Reclamation and the SDS Participants will coordinate with the tribes to identify and mitigate impacts to any traditional cultural properties or resources.	The requirements of the Programmatic Agreement are referenced or included in the construction contract documents for each work package.	No
<b>Participants' Commitments: Noise and Vibration</b>			
p. 19, Bullet 1	Construction equipment used by contractors shall function as designed and shall conform to applicable noise emission standards.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No

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p. 19, Bullet 2	Generally adhere to project work hour restrictions (7 a.m. to 7 p.m.) within 500 feet of residences, hospitals, schools, churches, and libraries. Work hours may need to be extended from time to time in order to expeditiously restore traffic flow or public access.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 3	Restrict access to construction areas so that the public could not be in close proximity to loud equipment or blasting.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 4	House project operating equipment (e.g. pump stations) in structures designed to minimize radiated noise outside the structure, and will meet local noise ordinance requirements.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, ¶1	By following existing standards, restricting work hours and access to construction areas, and insulating new noise within structures, noise effects will be minimized by maintaining acceptable noise levels and limiting the number of people exposed to increased noise levels.	As described in the previous four responses, these commitments are being incorporated into the construction contract documents to minimize potential construction and operation impacts due to noise and vibration.	No
<b>Participants' Commitments: Visual Resources</b>			
p. 20, Bullet 1	Vegetate earthen dam faces with native herbaceous plants to match the adjacent undisturbed prairie plant communities.	This requirement is not applicable yet as the design of the Upper Williams Creek and Williams Creek Reservoirs did not begin during this reporting period.	No
p. 20, Bullet 2	Revegetate and/or landscape with plants, all disturbances associated with the construction of all facilities.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 3	Restore as many existing grades as practicable following pipeline excavations.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No



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p. 20, Bullet 4	Enclose pump stations and well equipment in structures matching the architectural characteristics of the surrounding structures.	Colorado Springs Utilities began initial coordination with the Bureau of Reclamation and Pueblo County representatives regarding the proposed architecture for the Juniper Pump Station located at Pueblo Reservoir. Colorado Springs Utilities, on behalf of the SDS Participants, attended a Pueblo County Board of County Commissioners work session regarding the proposed architecture for the Juniper Pump Station on November 10, 2010. On November 16, 2010, the Pueblo County Board of County Commissioners passed and adopted Pueblo County Resolution No. 10-299 appointing Pueblo County's Planning Director, Kim Headley, to be Pueblo County's representative to participate in the final selection of architecture and landscaping for the Juniper Pump Station and approving the initial stage design presented consisting principally of the exterior treatments and architecture of the proposed pump station, including the colors and building materials. There was no further action taken in 2011. Pump design will continue in 2012 and coordination with Bureau of Reclamation and Pueblo County will continue.	No
p. 20, Bullet 5	Construct powerlines with non-specular (not shiny) wire, non-reflective and opaque insulators, and light-colored, non-reflective finished poles.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 6	Reclaim construction access roads and staging areas by restoring existing grade and revegetating the area of disturbance.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 7	Apply water with standard construction practices to control airborne fugitive dust within construction areas.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 8	Install baffles on construction lighting fixtures to direct light onto the construction activity only in locations where safety is a concern, scenic quality will be affected, or near occupied homes and businesses.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, ¶1	Restoring existing grades, revegetating disturbed areas, using architectural styles consistent with the area, and designing powerlines to have low visibility will minimize the visual contrast between the surrounding areas and will reduce the visibility of disturbance or new structures from observation points. Reducing airborne fugitive dust and construction lighting will reduce the area affected during construction.	As described in the previous eight responses, these requirements are being incorporated into the designs and construction contract documents for each work package to minimize potential impacts to visual resources.	No
<b>Participants' Commitments: Traffic</b>			
p. 20, Bullet 1	Use trenchless construction to the extent practicable when construction features cross railroad lines, state highways, county roadways in densely populated areas, and major city roadways in densely populated areas.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 2	Prepare traffic control plans for approval by state and local traffic authorities and followed by contractors during construction.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No

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p. 20, Bullet 3	Construct traffic signage, signals, acceleration, and deceleration lanes as directed by state and local traffic authorities for access to reservoir sites, treatment plants, and pump stations.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 4	Construct improvements to existing access roads or construction of temporary alternate access roads to reservoir sites, treatment plants, and pump stations as directed by state and local traffic officials.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 5	Modify or reconstruct bridges when the load limits are not adequate for construction of the SDS Project and other access routes are not reasonable.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, ¶1	When implemented, these recommendations will mitigate potential adverse effects on traffic by minimizing delays and promoting traffic safety.	As described in the previous five responses, these commitments are being incorporated into the construction contract documents for each work package to minimize potential construction and operations impacts to traffic flow patterns.	No
<b>Participants' Commitments: Soils</b>			
p. 21, Bullet 1	Minimize the area of disturbance to defined construction limits and limit the time bare soil is exposed.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 2	Contain soils within the construction area through temporary sediment control measures such as silt fences, sediment logs, trenches, and sediment traps.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 3	Remove woody vegetation prior to topsoil salvage and, to the extent possible, salvage topsoil within tree stump roots.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 4	Use topsoil salvage methods including windrowing topsoil at the limits of construction and pulling the soil back on slopes during reclamation.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 5	Apply topsoil, soil amendments, fertilizers, and mulches as appropriate, and seed selectively during favorable plant establishment climate conditions to match site conditions and revegetation goals.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 6	To the extent practicable, avoid irrigated lands during final design.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 7	To the extent practicable, allow continued use of lands crossed by project facilities after construction.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 8	Where the proposed pipeline crosses prime farmland soils, develop a soils handling plan that separates the top 6 inches and the soils between 6 and 36 inches for subsequent reclamation.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, ¶1	Proposed mitigation measures will reduce short-term and long-term losses of soil and soil productivity. Redistribution of topsoil to soil-deficient areas will increase soil productivity in those areas. Topsoil, soil amendments, fertilizers, and mulches will increase productivity and help establish cultivated vegetation and crops. A soils handling plan for prime farmland soils will ensure high quality topsoil is preserved and distributed properly.	As described in the previous eight responses, these commitments are being incorporated into the construction contract documents for each work package to minimize potential soil erosion and loss during construction.	No
<b>Participants' Commitments: Air Quality</b>			
p. 21, Bullet 1	Develop and implement standard control practices, such as watering, to minimize particulate and dust emissions from construction work sites as specified in the fugitive dust control plan.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No

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p. 21, Bullet 2	Ensure construction equipment (especially diesel equipment) meets opacity standards for operating emissions.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 3	Promptly revegetate disturbed areas.	The SDS Participants are incorporating this commitment into the construction contract documents for each of the work packages, as applicable. The revegetation contractor coordinates with the construction contractor to begin revegetation efforts following substantial completion of each construction project.	No
p. 21, ¶1	The proposed mitigation measures will reduce both short-term and long-term effects on air quality by following standards on construction equipment and minimizing fugitive dust.	As described in the previous two responses, these commitments are being incorporated into the construction contract documents for each work package to minimize potential air quality impacts during construction.	No
<b>Participants' Commitments: Hazardous Materials</b>			
p. 22, Bullet 1	Remove solid waste and properly dispose of at a permitted solid waste disposal facility prior to construction of project facilities at the site.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable. Contractors are meeting all solid waste and disposal requirements.	No
p. 22, Bullet 2	Inspect the ground surface beneath the solid waste for evidence of hazardous material or petroleum product spills such as soil staining and unusual odors or colors.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 22, Bullet 3	If evidence of a spill or spills is noted, delineate the extent of the spill by laboratory analysis and excavate any contaminated soils and properly dispose of at a permitted waste disposal facility.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 22, Bullet 4	If soil and/or ground water contamination is encountered during construction of project facilities, implement mitigation procedures to minimize the risk to construction workers and to the future operation of the project.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 22, ¶1	The proposed mitigation measures will identify areas of potential contamination from hazardous materials and will remediate the soil and ground water if any contamination was identified.	As described in the previous four responses, these commitments are being incorporated into the construction contract documents for each work package to minimize potential for a hazardous materials spill.	No
<b>El Paso County - Location Approvals</b>			
Final Resolution, Annual Report Requirement	This approval of location shall be subject to annual reporting by the applicant on January 31 annually and review by Development Services Department to determine compliance with all applicable requirements and standards of the El Paso County regulations and the conditions and safeguards imposed upon the approval of location by the Planning Commission. Upon completion of each periodic review, the Development Services Department shall forward its report and any recommendations to the Planning Commission, Board of County Commissioners and the holder of the approval of location. The annual report shall include:	This Permit Compliance Annual Report is being prepared to demonstrate the progress successfully implementing the commitments as prescribed in the ROD and the annual reporting requirements found in the other programmatic permits and approvals including: the Pueblo County 1041 Permit, the El Paso County Approval of Locations, the CDPHE 401 Water Quality Certification and the Fountain Creek Watershed, Flood Control and Greenway District approval.	No

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Reporting Requirements		CY2011 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
Annual Report Requirement, Sub-Bullet a	Evaluation of compliance with El Paso County conditions of approval	Compliance with the conditions of approval is being documented through the Site Development Plan processes for each work package. The Site Development Plan was approved for finished water pipeline segment FW1A on September 8, 2010, for the S4B/N1A pipeline on April 27, 2011, for the N1B pipeline on July 18, 2011, the Williams Creek Pump Station on July 7/18/11, and the FW1B pipeline on August 17, 2011.	No
Annual Report Requirement, Sub-Bullet b	Integrated Adaptive Management Plan	The Integrated Adaptive Management Plan (IAMP) has been completed and was submitted to the Bureau of Reclamation on March 18, 2011. The requirements of the IAMP will be coordinated with the development of the Phase II EMS that Colorado Springs Utilities will begin developing in the next reporting period. The requirements of the IAMP are not effective until SDS is operational.	No
Annual Report Requirement, Sub-Bullet c	Dust control report	The construction contract documents require the contractor to obtain an Air Pollution Emissions Notice (APEN) through the Colorado Department of Public Health & Environment and implement dust control measures as necessary to comply with the APEN requirements.	No
Annual Report Requirement, Sub-Bullet d	Weed control report	Noxious weed surveys are being completed as part of the final design and Site Development Plan processes. A noxious weed management plan is being provided to El Paso County as part of the Site Development Plan. The noxious weed management plan requirements are incorporated into the construction contract documents for each of the work packages.	No
Annual Report Requirement, Sub-Bullet e	Wildlife management report (any occurrences or actions regarding compliance with State or federal requirements)	Wildlife surveys are being completed as part of the Site Development Plan process. Habitat and species have been identified and proposed mitigation measures are identified in the wildlife survey report as necessary. Required mitigation measures will be initiated prior to construction. The construction contract documents provide direction to the contractor regarding how to handle sensitive wildlife species habitat that could be encountered during construction.	No

ATTACHMENT 1

Implementation Progress Matrix

Reporting Requirements		CY2011 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
Annual Report Requirement, Sub-Bullet f	Cultural resources report (any occurrences or actions regarding compliance with State or federal requirements)	Class III cultural resource surveys have been completed for the NEPA corridor. In addition, a process has been initiated with Reclamation and SHPO to address cultural resource impacts as a result of construction of SDS in compliance with the Programmatic Agreement. Colorado Springs Utilities prepared a Treatment Plan which addresses how mitigation will be determined for each eligible or potentially eligible cultural resource site. The Treatment Plan was executed in June 2011.	No
Annual Report Requirement, Sub-Bullet g	Groundwater and surface water monitoring report addressing water quality and quantity	A Joint Funding Agreement was executed with the U.S. Geological Survey (USGS) on the water quality monitoring program. Water quality monitoring will begin in January, 2011. See Attachment 3 for the water quality monitoring data.	Attachment 3 - Water Quality Monitoring Data
Annual Report Requirement, Sub-Bullet h	Vegetation monitoring report (status of revegetation efforts)	FW1A has been revegetated per El Paso County and CDPHE standards. The FW1A bond No. 58677790 was released by the El Paso County Board of County Commissioners on October 27, 2011.	No
Annual Report Requirement, Sub-Bullet i	Complaint log and how the issues were resolved	Colorado Springs Utilities is tracking complaints received through a complaints log which includes a description of the follow-up activities that occurred to address or resolve the complaint. See Attachment 4 for the Complaint Log.	Attachment 4 - Complaint Log
Annual Report Requirement, Sub-Bullet j	Emergency response log and how the issues were resolved	Colorado Springs Utilities is tracking emergency response actions through an emergency response log which includes a description of the actions taken to resolve the issue. See Attachment 5 for the Emergency Response Log.	Attachment 5 - Emergency Response Log
Annual Report Requirement, Sub-Bullet k	Log of when work occurred during non-typical work hours (work outside the hours of 7:00 am and 6:00 pm) and rationale by which the work was deemed necessary	The typical work hours are being incorporated into the construction contract documents for each of the work packages, as applicable. The contractor receives approval to work during non-typical work hours from the El Paso County Department of Transportation prior to the activity. Colorado Springs Utilities is tracking work which occurs during non-typical work hours through a log which includes a rationale by which the work was deemed necessary. See Attachment 6 for the Log of Work Occurring During Non-Typical Work Hours.	Attachment 6 - Log of Work Occurring During Non-Typical Work Hours

ATTACHMENT 1  
Implementation Progress Matrix

Reporting Requirements		CY2011 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
<b>Pueblo County - 1041 permit</b>			
7. Expenditures for Wastewater System Improvements, p. 12	In order to continue its efforts to protect against future spills to Fountain Creek, to increase its opportunities for reuse, and to mitigate possible water quality impacts by the SDS Project to Fountain Creek, Colorado Springs Utilities shall commit to invest an additional \$75,000,000 in its wastewater system. Expenditures will be made as part of the wastewater collection system rehabilitation programs or wastewater reuse systems between January 1, 2009 and December 31, 2024 as required. These expenditures shall be for projects not currently required by other regulatory permits, agency enforcement or court orders, consent agreements, or governmental regulations existing as of January 30, 2009. These expenditures will include the Local Collector Evaluation and Rehabilitation Program (LCERP) for the improvement and fortification of wastewater lines which could adversely affect Fountain Creek or its tributaries. These expenditures are subject to annual appropriation by the Colorado Springs City Council. Beginning in 2010, by January 31 of each year, Colorado Springs Utilities shall provide an annual report to Pueblo County describing such expenditures for the prior year.	Colorado Springs Utilities submitted a wastewater expenditures report documenting 2009 expenditures to Pueblo County on January 29, 2010. Colorado Springs Utilities prepared a report documenting 2010 expenditures which was submitted to Pueblo County on January 31, 2011. The report for 2011 is being prepared and will be submitted to Pueblo County on or about January 31, 2012.	Attachment 7 - Expenditures for Wastewater System Improvements Annual Report for 2011
25. Compliance Monitoring and Reporting, p. 18	Applicant shall monitor and periodically report to Pueblo County on its compliance with this Permit. During project construction in Pueblo County, Applicant will submit a quarterly report to Pueblo County summarizing the activities during that period, forecasting activities scheduled for the upcoming period, and addressing compliance with the terms and conditions of the Permit. After commencing deliveries of water through the SDS pipeline, Applicant shall submit annual reports to Pueblo County summarizing its activities related to the SDS Project, the Permit, and addressing compliance with the terms and conditions of the Permit. Pueblo County may, at its discretion, hold public reviews of the reports and Permit compliance, including hearings in accordance with its regulations. <i>See Mitigation Appendix ENF-1.</i>	Colorado Springs Utilities has prepared and submitted a quarterly report for 4th Quarter 2010, 1st Quarter 2011, 2nd Quarter 2011, and 3rd Quarter 2011 during this reporting period. The report for 4th Quarter 2011 is being prepared and will be submitted to Pueblo County by January 31, 2012.	No

**ATTACHMENT 1**  
Implementation Progress Matrix

Reporting Requirements		CY2011 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
Mitigation Appendix ENF-1, Project Detail, Item 1, p. 22 of 28	<p>1. Submit a quarterly report during project construction in Pueblo County that will provide a summary of activities related to the Conditions of the permit. The report will summarize the activities occurring in the reporting period, and a forecast of activities planned in the upcoming period. Contents of the report will include (as applicable):</p> <ul style="list-style-type: none"> <li>a. Safety incident log.</li> <li>b. Citizen call log.</li> <li>c. Description of mitigation and restoration activities (i.e., quantity and location of repaired road surface, reseeding, etc.).</li> <li>d. List of non-compliance issues by contractors (silt releases, work hour infractions, fines and penalties).</li> <li>e. Sustainable construction practices employed.</li> <li>f. Schedule and key milestones met and forecast.</li> <li>g. Location and extent of excavations.</li> <li>h. Instances of work outside normal work hours, except maintenance activities.</li> <li>i. Status of site maintenance, security and access control to properties.</li> <li>j. Location and extent of dewatering activities.</li> <li>k. Status of other required permits, including compliance with the programmatic agreement to protect cultural resources.</li> <li>l. Dust monitoring summary.</li> <li>m. Status of drainage and erosion control measures.</li> <li>n. Status of plant and wildlife protection requirements.</li> <li>o. Status of measures to protect surface and groundwater flows.</li> <li>p. Status of livestock protection measures.</li> <li>q. Status of Clear Spring Ranch project.</li> <li>r. Status of pump station architectural review.</li> <li>s. Status of land acquisition.</li> <li>t. Status of compliance with requirements concerning Pueblo County Roads.</li> <li>u. Status of dredging at the levees on Fountain Creek in Pueblo.</li> <li>v. Status of reclamation and bonding for disturbed areas.</li> <li>w. Status of the written MOU for construction and use of the North River Outlet Works.</li> <li>x. Acceptance of the design of structures at Lake Pueblo Dam by the BOR.</li> <li>y. Status of conservation strategies, local reuse, stormwater management, drainage regulations and enforcement.</li> <li>z. Status of stormwater and wastewater system improvements per permit commitments.</li> <li>aa. Status of NEPA, ROD, contract negotiations with BOR and notice of NEPA-required mitigation and any project changes resulting from contract negotiations.</li> <li>bb. Status of payments in lieu of property taxes.</li> <li>cc. Copies of the annual reports on the SDS Project submitted to Reclamation.</li> </ul>	Colorado Springs Utilities has prepared and submitted a quarterly report for 4th Quarter 2010, 1st Quarter 2011, 2nd Quarter 2011, and 3rd Quarter 2011 during this reporting period. The report for 4th Quarter 2011 is being prepared and will be submitted to Pueblo County by January 31, 2012.	No

ATTACHMENT 1  
Implementation Progress Matrix

Reporting Requirements		CY2011 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
Mitigation Appendix ENF-1, Project Detail, Item 2, p. 23 of 28	<p>2. Submit an annual report to Pueblo County that will provide a summary of activities related to the SDS Project and the Conditions of the Permit. These reports will be due annually on or before January 31, beginning the year following commencement of water deliveries through the SDS pipeline. The reports shall include a signed certification of compliance with the Permit. Contents of the report will include, but will not be necessarily limited to:</p> <ul style="list-style-type: none"> <li>a. Summary of storage, diversion, delivery of water in Pueblo County.</li> <li>b. Summary of Participants' return flows to Fountain Creek including storage and releases of such return flows (maximum daily flows, average annual and monthly flows and amounts).</li> <li>c. Summaries of exchanges by Participants between Pueblo Reservoir and the Fountain Creek confluence (monthly and annual rates of flow and quantities).</li> <li>d. Use of any new water rights to be delivered or stored through SDS (amount, time, source).</li> <li>e. Water quality monitoring.</li> <li>f. Geomorphology monitoring.</li> <li>g. Status of adaptive management plans on Fountain Creek.</li> <li>h. Status of payments into the Fountain Creek monetary mitigation fund.</li> <li>i. Status of expenditures for wastewater system improvements for Participants (and third party users in the Fountain Creek basin) per Permit Conditions.</li> <li>j. Reports on the operation of the Pueblo Flow Management Program and the Low Flow Program (rates, and quantities, and times of foregone exchanges, releases, and reception documentation).</li> <li>k. Status of lake level management cooperative efforts with other entities at Pueblo Reservoir.</li> <li>l. Status of conservation and local reuse.</li> <li>m. Payments to Pueblo County in lieu of property taxes.</li> <li>n. Copies of the annual reports on the SDS Project submitted to Reclamation.</li> </ul>	The annual report requirement was not applicable during this reporting period because SDS is not operational.	No
<b>CDPHE - 401 Water Quality Certification</b>			
Certification Statement, Bullet 4, p. 6	All collected raw data and annual reports developed as a requirement of other agency conditions will be submitted to the Division at the same time they are submitted to the requiring regulatory agency. Data and reports will be submitted directly to the Environmental Data Unit in an electronic data format agreed to by the Division.	The SDS Permit Compliance Annual Report for Calendar Year 2011 has been prepared to address the annual reporting requirements for all of the major programmatic permits. Colorado Springs Utilities will post this annual report to the SDS website (sdswater.org) where it can be accessed by all interested regulatory agencies or members of the public. Pertinent raw data and reports are being submitted as part of this annual report.	No



ATTACHMENT 1

Implementation Progress Matrix

Reporting Requirements		CY2011 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
<b>Fountain Creek WFCGD - Resolution 2010-01</b>			
Technical Advisory Committee Condition 2, p. 3 (Also Citizen Advisory Committee Condition 2)	<p>The Integrated Adaptive Management Plan (IAMP) shall be submitted to the District for review, and periodic reports on water quality and quantity shall be provided to the District.</p> <p>The Integrated Adaptive Management Plan (IAMP) will include how mitigation will be performed in case there are problems that were not anticipated during the project. This will include means and methods to address impacts from the project and specific triggers to initiate the process. Once the IAMP is finalized there will be an opportunity for comment.</p>	The IAMP has been completed and was submitted to the Bureau of Reclamation on March 18, 2011. The IAMP has been provided to the District.	No

# Monthly Average Flow Data from USGS Gauge Station No. 07106500 Fountain Creek at Pueblo

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**ATTACHMENT 2**

USGS Gauge Station No: 07106500

FOUNTAIN CREEK AT PUEBLO, CO

Pueblo County, Colorado

Hydrologic Unit Code 11020003

Latitude 38°17'16", Longitude 104°36'02" NAD27

Drainage area 926 square miles

Gage datum 4,705 feet above sea level NGVD29

00060, Discharge, cubic feet per second,												Annual Average Flow
YEAR	Monthly mean in cfs (Calculation Period: 2010-01-01 -> 2010-09-30)											
	Period-of-record for statistical calculation restricted by user											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	
2011 Mean of Monthly Discharge	86.9	123.3	110.8	79.2	54.7	25.0	53.7	65.6	308.0	Not available as of January 18, 2012		100.8

## Notes:

1. No incomplete data has been used for the statistical calculations shown in the table.
2. Data in this table is from USGS National Water Information System: Web Interface ([waterdata.usgs.gov/nwis/monthly](http://waterdata.usgs.gov/nwis/monthly)).
3. The annual average is computed from the monthly mean data published by the U.S. Geological Survey.

# Water Quality Monitoring Data

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A Joint Funding Agreement was executed with the U.S. Geological Survey to begin the water quality monitoring program in January, 2011.

Location	Date	Flow cfs	Barometric pressure mmHg	Dissolved oxygen mg/L	pH	Specific conductance µS/cm	Temperature °C	Turbidity FNU	Escherichia coli MPN/100 mL	Total coliform MPN/100 mL	Ammonia mg/L N	Selenium µg/L	Dissolved solids mg/L
Arkansas at Moffat Street	20110125	65	649	10.7	8.1	632	3.6	11	4	100	<0.02	21.1	417
Arkansas at Moffat Street	20110223	29	643	10.4	8.4	663	8.8	1.7	5	210	<0.02	21.3	482
Arkansas at Moffat Street	20110331	141	639	10.9	8.5	522	8.5	2.8	2	140	<0.02	12.1	333
Arkansas at Moffat Street	20110428	371	645	11.9	8.5	464	9.9	0.8	8	370	<0.02	7.4	301
Arkansas at Moffat Street	20110519	729	634	9.9	8.3	453	12.4	3.9	2	410	0.02	6.6	281
Arkansas at Moffat Street	20110610	3010	641	8.4	8.2	435	15.6	2.1				5.0	281
Arkansas at Moffat Street	20110721	2000	643	8.6	8.3	221	19.8	2.0	120	590	0.02	1.9	130
Arkansas at Moffat Street	20110829	957	643	7.9	8.4	258	22.4	9.0	250	>2400	<0.02	2.3	151
Arkansas at Moffat Street	20110928	102	646	11.1	8.5	444	19.2	2.0	28	>2400	<0.02	9.9	281
Arkansas at Moffat Street	20111026	135	647	11.0	8.1	468	11.7	12	>2400	>2400	0.08	10.7	290
Arkansas at Moffat Street	20111122	54	647	10.7	8.5	587	6.4	3.0	12	340	<0.02	22.3	409
Arkansas River at Avondale	20110125	272	653	11.2	8.1	988	1.3	41	8	290	0.92	14.2	690
Arkansas River at Avondale	20110224	299	650	10.0	8.0	946	9.3	44	21	200	0.28	15.1	656
Arkansas River at Avondale	20110331	376	643	9.0	8.2	880	9.2	30	50	820	0.16	12.8	598
Arkansas River at Avondale	20110428	585	649	9.1	8.1	672	10.3	29	22	1400	0.11	9.6	442
Arkansas River at Avondale	20110519	938	637	8.8	8.1	593	12.7	25	36	650	0.03	8.6	388
Arkansas River at Avondale	20110609	3390	640	8.4	8.3	475	16.9	19				5.1	314
Arkansas River at Avondale	20110721	1940	647	7.8	7.9	292	20.4	18	130	830	0.03	2.8	167
Arkansas River at Avondale	20110819	1120	646	7.3	8.1	396	22.2	28	32	>2400	0.03	4.8	246
Arkansas River at Avondale	20110928	284	650	8.7	8.3	866	21.5	20	34	>2400	<0.02	11.6	593
Arkansas River at Avondale	20111026	351	651	10.8	8.2	864	10.2	26	140	2400	0.03	11.6	586
Arkansas River at Avondale	20111121	291	648	10.4	8.0	1000	4.6	24	16	630	0.37	13.8	700
Fountain Creek Near Colorado Springs	20110119	9.9	606	10.6	8.1	332	2.6	3.3	31	690	<0.02	0.12	189
Fountain Creek Near Colorado Springs	20110216	9.4	601	10.5	8.2	376	2.9	4.6	110	200	0.03	0.18	219
Fountain Creek Near Colorado Springs	20110328	8.5	601	10.5	8.4	389	4.4	0.6	19	170	<0.02	0.19	238
Fountain Creek Near Colorado Springs	20110425	9.9	602	9.9	8.2	387	8.8	30	47	770	<0.02	0.16	222
Fountain Creek Near Colorado Springs	20110523	10	606	8.9	8.3	353	10.1	6.0	980	>2400	0.02	0.14	199
Fountain Creek Near Colorado Springs	20110622	4.6	612	7.7	8.2	498	15.1	1.2	160	>2400	<0.02	0.15	393
Fountain Creek Near Colorado Springs	20110727	5.1	610	7.5	8.1	448	18.2	7.4	610	>2400	<0.02	0.13	260
Fountain Creek Near Colorado Springs	20110830	5.1	611	9.0	8.4	475	16.6	2.3	980	>2400	<0.02	0.15	269
Fountain Creek Near Colorado Springs	20110929	6.5	618	8.5	8.3	404	11.7	2.4	390	2400	<0.02	0.13	230
Fountain Creek Near Colorado Springs	20111027	11	611	11.1	8.1	287	1.5	6.0	99	770	<0.02	0.08	176
Fountain Creek Near Colorado Springs	20111129	10	614	11.1	7.8	293	3.1	1.9	34	310	<0.02	0.09	175
Monument Creek at Bijou Street	20110119	26	606	10.5	8.2	759	3.4	3.6	61	610	0.05	4.7	456
Monument Creek at Bijou Street	20110215	34	614	9.8	8.2	712	11.3	29	25	630	0.14	3.6	435
Monument Creek at Bijou Street	20110328	33	606	9.4	8.6	655	7.4	39	E30	E1400	0.06	4.0	393

Location	Date	Flow cfs	Barometric pressure mmHg	Dissolved oxygen mg/L	pH	Specific conductance µS/cm	Temperature °C	Turbidity FNU	Escherichia coli MPN/100 mL	Total coliform MPN/100 mL	Ammonia mg/L N	Selenium µg/L	Dissolved solids mg/L
Monument Creek at Bijou Street	20110425	48	607	8.5	8.3	486	10.5	55	38	730	0.41	2.3	298
Monument Creek at Bijou Street	20110526	44	612	8.8	8.3	610	12.5	95	520	>2400	0.08	2.9	371
Monument Creek at Bijou Street	20110622	31	617	7.2	8.3	629	21.0	55	1200	>2400	0.02	3.3	403
Monument Creek at Bijou Street	20110725	37	617	6.6	8.2	559	27.9	23	680	24000	0.28	2.4	326
Monument Creek at Bijou Street	20110830	36	614	7.0	8.3	609	21.2	16	550	>2400	0.06	3.1	387
Monument Creek at Bijou Street	20110929	43	623	8.6	8.6	689	15.3	20	520	>2400	0.04	3.8	445
Monument Creek at Bijou Street	20111024	37	615	7.6	8.3	729	10.9	11	E170	E1400	0.15	4.3	451
Monument Creek at Bijou Street	20111129	31	619	10.5	8.5	705	5.3	14	78	1400	0.03	4.1	475
Fountain Creek at Colorado Springs	20110119	40	613	9.9	8.1	669	4.9	2.8	13	380	0.03	3.6	409
Fountain Creek at Colorado Springs	20110216	46	611	9.4	8.3	679	9.8	20	22	490	0.09	3.3	434
Fountain Creek at Colorado Springs	20110328	39	607	10.0	8.7	630	12.1	16	19	500	0.02	3.6	390
Fountain Creek at Colorado Springs	20110426	51	603	8.4	8.2	608	11.4	21	96	2400	0.16	3.0	361
Fountain Creek at Colorado Springs	20110526	53	612	8.3	8.3	651	13.5	67	330	>2400	0.04	3.6	410
Fountain Creek at Colorado Springs	20110622	36	617	7.1	8.3	669	25.6	19	920	2400	<0.02	2.9	439
Fountain Creek at Colorado Springs	20110728	44	617	6.5	8.1	576	26.0	16	380	24000	<0.02	2.2	348
Fountain Creek at Colorado Springs	20110830	38	616	8.2	8.3	667	24.5	18	460	>2400	0.02	3.2	412
Fountain Creek at Colorado Springs	20110929	47	623	8.0	8.7	710	18.4	6.5	340	>2400	<0.02	3.3	426
Fountain Creek at Colorado Springs	20111027	58	617	10.5	8.0	620	4.9	20	690	2400	0.02	2.4	381
Fountain Creek at Colorado Springs	20111129	56	620	10.4	8.4	644	6.8	25	32	980	0.04	3.2	412
Fountain Creek below Janitell Road	20110119	59	614	8.6	7.9	747	9.8	2.7	44	650	0.06	3.4	441
Fountain Creek below Janitell Road	20110216	116	613	9.5	8.2	701	12.2	14	28	630	0.19	2.9	420
Fountain Creek below Janitell Road	20110329	97	615	9.8	8.2	742	12.0	14	E330	1600	0.04	3.9	444
Fountain Creek below Janitell Road	20110426	70	605	8.5	8.1	633	15.1	11	73	2000	0.06	2.8	399
Fountain Creek below Janitell Road	20110526	93	612	7.6	8.2	667	17.3	24	130	>2400	0.05	2.9	427
Fountain Creek below Janitell Road	20110620	239	612	7.6	8.0	485	16.4	250	>24000	>24000	0.16	2.5	285
Fountain Creek below Janitell Road	20110726	74	616	7.4	8.1	606	25.2	19	440	1000	0.05	2.2	372
Fountain Creek below Janitell Road	20110830	74	617	6.4	8.2	705	24.9	14	210	>2400	0.04	2.9	454
Fountain Creek below Janitell Road	20110926	74	627	7.8	8.3	731	21.2	8.0	270	>2400	0.07	3.7	467
Fountain Creek below Janitell Road	20111027	114	618	9.6	7.9	630	13.3	14	610	>2400	0.03	<0.03	408
Fountain Creek below Janitell Road	20111128	65	619	9.6	8.0	620	11.3	6.7	67	1000	0.07	3.0	409
Fountain Creek at Security	20110121	55	624	11.2	8.2	832	3.3	11	88	610	0.50	4.1	533
Fountain Creek at Security	20110217	95	621	9.7	8.4	791	8.8	39	E11	E480	0.25	4.0	495
Fountain Creek at Security	20110329	106	620	10.1	8.6	879	11.5	50	440	>2400	0.10	5.5	587
Fountain Creek at Security	20110427	79	618	9.4	8.3	819	10.9	42	88	>2400	0.10	5.6	549
Fountain Creek at Security	20110525	106	621	7.4	8.3	649	14.5	61	360	>2400	0.12	2.7	409
Fountain Creek at Security	20110622	77	623	6.6	8.4	752	28.0	19	140	>2400	0.06	2.7	481

Location	Date	Flow cfs	Barometric pressure mmHg	Dissolved oxygen mg/L	pH	Specific conductance µS/cm	Temperature °C	Turbidity FNU	Escherichia coli MPN/100 mL	Total coliform MPN/100 mL	Ammonia mg/L N	Selenium µg/L	Dissolved solids mg/L
Fountain Creek at Security	20110728	75	624	6.1	8.3	728	27.3	48	550	>2400	0.20	3.0	465
Fountain Creek at Security	20110829	63	624	8.0	8.4	776	22.6	17	460	>2400	0.30	3.2	492
Fountain Creek at Security	20110927	68	626	8.1	8.3	854	17.1	14	84	>2400	0.30	4.0	543
Fountain Creek at Security	20111025	66	621	8.3	8.2	808	11.6	16	91	2400	0.31	3.5	494
Fountain Creek at Security	20111129	114	625	8.8	8.3	697	11.2	30	47	1000	0.28	3.2	463
Fountain Creek Near Fountain	20110124	69	631	11.0	7.9	920	2.4	22	5	290	0.28	4.0	591
Fountain Creek Near Fountain	20110217	108	624	8.8	8.1	870	10.1	68	11	290	0.07	4.2	570
Fountain Creek Near Fountain	20110330	97	625	9.6	8.3	860	9.4	33	26	870	0.02	3.7	556
Fountain Creek Near Fountain	20110426	57	616	7.8	8.2	965	12.8	23	21	1100	0.02	4.7	636
Fountain Creek Near Fountain	20110518	55	618	7.7	8.1	1000	16.7	15	23	220	0.06	3.9	638
Fountain Creek Near Fountain	20110620	105	622	7.0	8.1	816	19.2	200	2400	>2400	0.22	3.0	541
Fountain Creek Near Fountain	20110726	92	625	6.3	8.0	706	27.8	63	880	>24000	<0.02	2.8	452
Fountain Creek Near Fountain	20110831	52	629	7.2	8.2	973	21.4	11	130	2400	<0.02	3.7	654
Fountain Creek Near Fountain	20110926	83	622	6.7	8.3	1130	21.4	35	41	>2400	0.03	4.9	762
Fountain Creek Near Fountain	20111025	86	625	9.0	8.1	1020	13.8	19	23	2400	0.03	4.3	653
Fountain Creek Near Fountain	20111128	95	630	9.3	8.1	865	8.7	30	37	2000	0.04	4.8	578
Fountain Creek at Pinon	20110121	70	640	8.8	8.2	1040	6.9	52	2	280	0.04	4.8	688
Fountain Creek at Pinon	20110222	114	636	11.4	8.2	926	3.3	120	38	530	0.06	3.9	613
Fountain Creek at Pinon	20110328	105	629	8.2	8.4	965	15.3	59	14	1200	<0.02	4.3	634
Fountain Creek at Pinon	20110427	41	633	8.2	8.3	1050	15.5	32	16	820	<0.02	4.6	684
Fountain Creek at Pinon	20110531	47	638	6.9	8.5	1070	24.3	54	98	1600	0.02	4.5	712
Fountain Creek at Pinon	20110620	38	630	7.0	8.4	1020	21.1	99	400	>2400	0.02	4.3	687
Fountain Creek at Pinon	20110727	20	636	6.1	8.1	997	27.1	25	190	11000	<0.02	4.0	642
Fountain Creek at Pinon	20110831	8.1	636	6.0	8.3	1100	27.0	16	67	>2400	<0.02	3.8	716
Fountain Creek at Pinon	20110927	64	641	7.8	8.2	1210	19.8	42	47	>2400	<0.02	4.8	812
Fountain Creek at Pinon	20111025	76	634	8.7	8.3	1120	13.5	61	73	2400	0.02	4.4	723
Fountain Creek at Pinon	20111121	105	634	9.4	8.1	987	7.8	73	27	1700	0.05	4.1	666
Fountain Creek at Pueblo	20110125	70	648	11.3	8.1	1190	1.9	11	2	360	0.02	12.9	813
Fountain Creek at Pueblo	20110218	146	648	10.4	8.3	1080	5.7	180	17	920	0.02	10.0	717
Fountain Creek at Pueblo	20110331	98	638	9.8	8.4	1020	10.1	69	10	210	<0.02	11.4	739
Fountain Creek at Pueblo	20110425	274	635	8.3	8.3	975	14.8	1020	4100	22000	0.08	6.4	638
Fountain Creek at Pueblo	20110525	134	641	7.3	8.4	944	21.8	290	110	730	0.03	9.2	644
Fountain Creek at Pueblo	20110623	28	644	7.8	8.2	1420	18.2	21	11	460	<0.02	22.0	1020
Fountain Creek at Pueblo	20110729	54	648	7.2	8.3	1270	26.1	340	760	>24000	0.02	14.6	876
Fountain Creek at Pueblo	20110829	E16	644	7.8	8.7	1630	30.4	4.1	57	2000	0.02	32.2	1190
Fountain Creek at Pueblo	20110928	63	645	8.4	8.3	1480	15.6	22	32	>2400	<0.02	17.9	1060

Location	Date	Flow cfs	Barometric pressure mmHg	Dissolved oxygen mg/L	pH	Specific conductance µS/cm	Temperature °C	Turbidity FNU	Escherichia coli MPN/100 mL	Total coliform MPN/100 mL	Ammonia mg/L N	Selenium µg/L	Dissolved solids mg/L
Fountain Creek at Pueblo	20111026	100	646	9.8	8.4	1360	8.0	89	93	>2400	<0.02	14.9	938
Fountain Creek at Pueblo	20111121	142	642	10.9	8.2	1160	4.4	51	15	1700	0.02	10.7	841
Fountain at E. River Street	20110124	78	644	10.2	8.3	1210	5.1	67	25	450	<0.02	12.1	819
Fountain at E. River Street	20110218	128	647	7.9	8.5	1090	8.2	180	7	1400	0.03	9.8	734
Fountain at E. River Street	20110330	119	645	8.9	8.6	1080	16.0	58	66	1400	<0.02	10.0	749
Fountain at E. River Street	20110428	50	644	9.3	8.3	1290	19.6	60	39	770	<0.02	17.3	914
Fountain at E. River Street	20110531	41	649	8.7	8.5	1310	16.2	22	78	980	<0.02	17.3	954
Fountain at E. River Street	20110621	77	643	6.3	8.4	1150	27.2	70	2000	>2400	<0.02	11.5	776
Fountain at E. River Street	20110728	30	649	6.3	8.3	1370	26.4	37	E110	E14000	<0.02	16.9	937
Fountain at E. River Street	20110819	29	643	7.8	8.2	1440	21.7	19	65	>2400	<0.02	19.2	1010
Fountain at E. River Street	20110928	70	646	7.6	8.3	1530	24.6	17	10	2400	<0.02	18.5	1100
Fountain at E. River Street	20111028	140	649	10.2	8.3	1220	7.0	180	370	>2400	0.06	10.3	851
Fountain at E. River Street	20111130	115	638	9.8	8.3	1250	6.3	57	27	1700	0.03	10.7	825
Fountain at 40th Street	20110124	68	645	10.4	8.1	1120	4.6	65	2	440	<0.02	6.0	758
Fountain at 40th Street	20110223	112	642	11.4	8.3	1030	3.6	110	120	610	0.03	5.5	694
Fountain at 40th Street	20110330	116	638	9.8	8.5	1040	13.2	130	84	1600	<0.02	5.5	706
Fountain at 40th Street	20110427	65	639	7.7	8.3	1110	19.5	56	21	770	<0.02	6.8	750
Fountain at 40th Street	20110526	72	635	7.3	8.5	1080	22.8	90	120	820	0.03	6.0	721
Fountain at 40th Street	20110621	75	641	6.6	8.3	1050	24.7	E100	2400	>2400	<0.02	5.4	687
Fountain at 40th Street	20110727	46	642	7.1	8.2	1090	22.5	82	350	20000	<0.02	6.8	716
Fountain at 40th Street	20110826	7.4	647	7.4	8.2	1370	24.8	0.4	23	2400	<0.02	10.5	935
Fountain at 40th Street	20110927	69	646	7.3	8.3	1380	22.8	21	39	2400	<0.02	8.9	948
Fountain at 40th Street	20111031	114	641	8.5	8.4	1180	12.7	92	44	2400	<0.02	5.9	804
Fountain at 40th Street	20111130	115	638	9.6	8.2	1171	4.5	62	34	2000	<0.02	7.5	780
Fountain Below Jimmy Camp Cr	20110121	59	628	10.1	8.2	883	5.1	12	11	580	0.20	3.9	581
Fountain Below Jimmy Camp Cr	20110217	125	624	8.8	8.3	857	12.0	62	35	550	0.14	4.1	548
Fountain Below Jimmy Camp Cr	20110329	119	624	9.4	8.7	851	15.5	51	60	>2400	0.03	4.5	565
Fountain Below Jimmy Camp Cr	20110426	61	613	9.3	8.2	829	10.8	26	59	2000	0.06	3.9	541
Fountain Below Jimmy Camp Cr	20110525	96	625	7.4	8.3	747	18.2	38	110	1300	0.05	2.8	488
Fountain Below Jimmy Camp Cr	20110621	83	626	7.2	8.2	738	19.8	29	730	>2400	0.28	2.4	468
Fountain Below Jimmy Camp Cr	20110726	140	625	6.6	8.1	568	23.1	110	1500	>24000	0.05	2.3	352
Fountain Below Jimmy Camp Cr	20110829	56	628	7.8	8.3	860	20.9	17	440	>2400	0.12	3.1	548
Fountain Below Jimmy Camp Cr	20110926	61	627	7.7	8.3	944	18.0	14	70	>2400	0.14	4.1	617
Fountain Below Jimmy Camp Cr	20111027	132	628	8.5	8.3	794	12.1	50	550	>2400	0.11	3.2	520
Fountain Below Jimmy Camp Cr	20111128	106	628	10.8	8.1	790	7.0	27	230	980	0.22	3.9	524



# Complaint Log

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County	Date	Caller (Contact)	Reason	Response	Follow up	Disposition
EPC	7/20/2011	Steve Norris	Prairie dogs potentially disturbed by construction are impacting cattle grazing area nearby.	Met with Permitting/Environmental Team and Mr. Norris; Determined corrective actions were needed.	Arranged for contractor to relocate prairie dogs.	Property owner satisfied.
PC	8/23/2011	Mary Morrison	Concern about vacant house on Industrial that Utilities owns.	Permitting/Environmental Team met with Pueblo County regarding potential for early demolition. SDS staff met with resident to discuss next steps.	Vacant house on Industrial was demolished safely.	Resident satisfied
PC	8/24/2011	Renee Huddleson	Asking about payment for her easement.	Adressed concern with SDS Land team.	Land team reached her and provided information.	Resident seemed satisfied.
EPC	8/26/2011	John and Georgia Key	Residents concerned about upcoming fencing location and potential impacts to their septic system.	Met with property owners to explain fencing and answer questions.	None needed	Residents satisfied.
EPC	8/30/2011	Greg Fisher	Met with Mr. Fisher and construction team to discuss construction fencing and Fishers' access to electrical box in back yard	Construction team agreed to do fencing to permit Fishers' to access electrical box, to move shed debris so that Mr. Fisher could repurpose lumber, and take others to restore property after construction.	Plan to follow up after fencing is placed by construction team	Resident happy with efforts
EPC	9/12/2011	Greg Fisher	Fence posts placed do not appear to be as agreed	Discussed with construction team and construction team agreed to place a gate in the fence near the electrical box. Also, chain link strung by construction team was too low and might permit his small cattle to escape.	Follow up with Mr. Fisher to ensure gate is placed.	Resident satisfied with effort now because he has sold the two cattle.

County	Date	Caller (Contact)	Reason	Response	Follow up	Disposition
EPC	10/14/2011	Mark Mullet	Septic system relocation Homeowner worried about system freezing.	Vents are installed in leach field. Field depth discused. Contractor indicated that he has never seen and believes that bioaction in the cells will keep it warm. Seed applied by contractor. Homeowner worried seed won't take because it is so late in the season.	Reseeding requested in spring and six-month walkthrough to assess system and vegetation efforts.	Resident seemed satisfied.
EPC	10/14/2011	Charles Borden	Concern that construction is on his property and should not be	Met with Mr. Borden and went over boundaries of his property and showed him that fencing does not touch his property	None needed	Resident satisfied with outcome
PC	10/19/2011	Mr. C. Mullins	Concerned about off road vehicles using the easement and wondering what will be done to address the issue.	Spoke with Mr. Mullins about the contractors safety plans and use of afterhours security. Spoke with the Pueblo County Sheriffs Office during their monthly SDS meeting. PCSO reps said they will work with any residents that call with such a complaint and treat it as trespassing since SDS and the contractor wish to treat that as such.	PCSO followed up with resident. SDS will coordinate with resident for updates as crews near his property.	Resident satisfied with outcome and expressed interest in being kept informed as the project comes closer to his property.
PC	11/21/2011	Dwayne Maxwell	Concern about unexpected fencing activity in easement	Construction team gave direction for fencing crews to leave the area and recheck their plans for type of fence for these properties.	Reschedule fencing crews to do these properties in chain link, rather than orange construction fencing.	Resident was accepting of new fence plan and were cordial as chain link was placed on the easement a few weeks later.

County	Date	Caller (Contact)	Reason	Response	Follow up	Disposition
PC	11/21/2011	Herbert Walsh	Concern about unexpected fencing activity in easement	Construction team gave direction for fencing crews to leave the area and recheck their plans for type of fence for these properties.	Reschedule fencing crews to do these properties in chain link, rather than orange construction fencing.	Resident was accepting of new fence plan and were cordial as chain link was placed on the easement a few weeks later.
PC	11/23/2011	Anonymous	Caller said he was driving by our site along Highway 50 and saw what he thought was dust and wondered what our dust mitigation plan is	Immediately contacted construction team. Call came late in afternoon. Team believes the caller saw water mist and hydromulch being applied to the site. Measurements of dust were well below limits set forth in 1041.	Caller declined further contact or to give his name. Call was blocked on hotline.	Unknown--contact refused by resident
PC	11/20/2011	Al Aldecocoea	Concern about resident report that unidentified trucks have been stopping on the road in Midway Ranches and impeding traffic.	Project manager checked with contractor and provided guidance about maintaining traffic flow for neighborhood.	Continue to emphasize need for traffic flow in neighborhood.	Resident seemed satisfied.
PC	11/30/2011	Paul Langlois	Says he has not received paperwork about his relocated septic system	Checked and found that his attorney, Mr. Gradisar, had been e-mailed the documents and had not communicated with Mr. Langlois.	None needed	Resident satisfied with outcome.
PC	11/30/2011	Lavetta Kay	Wondering about status of her photos and video pre-existing condition assessment	Shared with her the technical process being used to achieve maximum accuracy and ease of use.	Get assessment to her as soon as possible	Ms. Kay would like her assessment as soon as possible.

County	Date	Caller (Contact)	Reason	Response	Follow up	Disposition
PC	11/30/2011	Renee Kurkowski	Concerned about water trucks using Young Hollow Road and wants to make sure they are coming to a full stop at stop signs.	Spoke with caller to update her on the new activities along the road and assured her that all trucks will follow traffic signs in the area.	Spoke to the construction team about speaking with the truck drivers to make sure they know the safety hazards along the roadway. The construction team spoke with the drivers at the site to make sure they knew where all the traffic signs are.	The property owner was satisfied with the teams effort to reinforce obeying traffic signs.
PC	12/2/2011	Jack and Jill Fahrion	Experiencing slight vibration in home from nearby construction and wondering if this would cause any damage	Met with property owners to address their concerns. All parties agreed to conduct vibration testing to investigate further.	Vibration reports resulted in levels that were detectable but normal. Property owners reported no damages. Followed up with property owners the weeks following the initial call and the property owners reported that they were doing well and not experiencing anything else.	Property owner was satisfied with findings and appreciative of the teams efforts to address their concerns.
PC	12/5/2011	Pierre DeChabert	Questions/concerns about gates installed between his property and the construction easement	Met with Mr. DeChabert and arranged for wider gates to be installed.	Wider gates installed.	Resident satisfied with outcome

County	Date	Caller (Contact)	Reason	Response	Follow up	Disposition
PC	12/7/2011	Gary Maier	Email saying dust being generated and wanting water trucks	Emailed him back, asked for a phone number and a location, got no answer. Emailed several times with no response from Mr. Maier.	Checked with construction team and environmental team, confirmed watering and dust monitoring is under way.	Unknown--contact refused by resident
PC	12/7/2011	Mr. Carver	His land line isn't working and he wonders if stakes placed by fencing crews might have cut line accidentally.	Immediately sent construction team to assess the situation; A disposable cell phone was delivered to Mr. Carver at about 6 p.m. to ensure he had a phone overnight.	Checked in with Mr. Carver the next day to ensure his land line was repaired by phone provider.	Resident stated that he was very happy with the outcome.
PC	12/13/2011	Clarissa Arnot	Workers littering on easement near her home	Apology, offered to clean them up right away, which she already had done	Discussed with construction team, immediate correction for workers	Resident satisfied with outcome
PC	12/14/2011	Monique Mullis	SDS traffic using north entrance of park and not east entrance.	Construction team met with contractor that day to make them aware of entry point for SDS traffic.	Ms. Mullis was informed of team's response.	Ms. Mullis was satisfied with outcome.
PC	12/27/2011	Lavetta Kay	Checking up on new activity in the easement on her property and making sure they will protect cacti	Contacted construction team to make sure they moved away from the sensitive area to minimize damage to cacti.	Visited the field on 12/28 and spoke with Ms. Kay on the phone. Assured her that we will relocate the marked cacti away from the construction area and when revegetation occurs we will establish the cacti.	Ms. Kay was upset and wanted to be kept updated about our efforts to protect cacti in the easement area.

# Emergency Response Log

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No attachment is provided because no emergency response incidents associated with construction of SDS occurred during this reporting period.

# Log of Work Occurring During Non-Typical Work Hours

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Work Occurring During Non-Typical Work Hours

Work Package	Day	Date	Hours Worked	Reason
PDC 1A	Saturday	5/14/2011	7 am - 6 pm	Excavation and Dewatering Activities
PDC 1A	Saturday	6/4/2011	7 am - 6 pm	Excavation and Dewatering Activities
PDC 1A	Saturday	6/18/2011	7 am - 6 pm	Excavation and Dewatering Activities
PDC 1A	Saturday	6/25/2011	7 am - 6 pm	Excavation and Dewatering Activities
PDC 1A	Saturday	7/30/2011	1:30 a.m. - 12:00 p.m.	Concrete Placement
PDC 1A	Friday	8/12/2011	1:30 a.m. - 12:00 p.m.	Concrete Placement
PDC 1A	Friday	8/19/2011	5:00 a.m. - 4:30 p.m.	Concrete Placement
PDC 1A	Saturday	8/27/2011	3:00 a.m. - 12:00 p.m.	Concrete Placement
PDC 1A	Wednesday	8/31/2011	5:00 a.m. - 4:30 p.m.	Concrete Placement
PDC 1A	Monday	9/19/2011	5:00 p.m. - 8:00 p.m.	Sandblasting
PDC 1A	Monday	9/26/2011	7:00 a.m. - 8:00 p.m.	Form Erection for Concrete
PDC 1A	Wednesday	9/28/2011	2:00 a.m. - 4:30 p.m.	Concrete Placement
PDC 1A	Saturday	10/29/2011	7:00 a.m. - 4:00 p.m.	Formwork
PDC 1A	Saturday	11/19/2011	7:00 a.m. - 4:00 p.m.	Welding in Buttress 16
PDC 1A	Saturday	12/3/2011	7:00 a.m. - 4:00 p.m.	Work in Buttress 16
PDC 1A	Saturday	12/10/2011	7:00 a.m. - 4:00 p.m.	Work in Buttress 16
PDC 1A	Saturday	12/17/2011	7:00 a.m. - 4:00 p.m.	Work in Buttress 16
FW1B	Sunday	10/16/2011	7:00 a.m. - 4:00 p.m.	Tunnel Boring 54" Casing
FW1B	Sunday	12/4/2011	7:00 a.m. - 4:00 p.m.	Tunnel Boring 54" Casing
FW1B	Sunday	12/11/2011	7:00 a.m. - 4:00 p.m.	Tunnel Boring 54" Casing

# Expenditures for Wastewater System Improvements Annual Report for 2011

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# Pueblo County 1041 Permit

## Expenditures for Wastewater System Improvements

### Annual Progress Report

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January 2012

Reporting for the period between January 1, 2011 and December 31, 2011.

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## Introduction

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On April 21, 2009, the Pueblo Board of County Commissioners passed Resolution No. P&D 09-22, approving 1041 Permit No. 2008-002 with terms and conditions for construction of the Southern Delivery System water project within Pueblo County, Colorado.

1041 Permit Condition No.7 requires that Colorado Springs Utilities provide an annual report to the Pueblo County Board of Commissioners on or before January 31 of each year reporting the Wastewater System Improvement expenditures from January 1 through December 31. Condition No.7 of the permit states:

***Expenditures for Wastewater System Improvements***

*In order to continue its efforts to protect against future spills to Fountain Creek, to increase its opportunities for reuse, and to mitigate possible water quality impacts by the SDS Project to Fountain Creek, Colorado Springs Utilities shall commit to invest an additional seventy-five million dollars (\$75,000,000) in its wastewater system. Expenditures will be made as part of the wastewater collection system rehabilitation programs or wastewater reuse systems between January 1, 2009 and December 31, 2024 as required. These expenditures shall be for projects not currently required by other regulatory permits, agency enforcement or court orders, consent agreements, or governmental regulations existing as of January 30, 2009. These expenditures will include the Local Collector Evaluation and Rehabilitation Program (LCERP) for the improvement and fortification of wastewater lines which could adversely affect Fountain Creek or its tributaries. These expenditures are subject to annual appropriation by the Colorado Springs City Council. Beginning in 2010, by January 31 of each year, Colorado Springs Utilities shall provide an annual report to Pueblo County describing such expenditures for the prior year.*

The Wastewater Collection System Rehabilitation Programs are comprehensive programs that systematically inspect, evaluate, prioritize, and rehabilitate the entire Colorado Springs Utilities collection system. In 2011, the projects that met the terms of Condition No. 7 are: 1) the Local Collectors Evaluation and Rehabilitation Project (LCERP); 2), the Manhole Evaluation and Rehabilitation Project (MHERP); and 3) the Collection System Rehabilitation and Replacement Project (R&R). These projects are independent of Colorado Springs Utilities' normal operation and maintenance programs, and were not mandated by any permits, agency orders, court orders, consent agreements, or regulations existing as of January 30, 2009.

The Wastewater Reuse System consists of several pumping stations, storage reservoirs, holding ponds transmission mains, and a tertiary treatment facility.

## Project Descriptions

### Local Collectors Evaluation and Rehabilitation Project (LCERP)

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LCERP consists of the systematic evaluation and rehabilitation of sewer collection pipes less than 10 inches in diameter.

LCERP:

- Determines the condition of all the sanitary sewer pipe segments less than 10 inches in diameter and places them by priority on a schedule to be re-inspected, rehabilitated, repaired and/or replaced,
- Reduces the risk of Sanitary Sewer Overflows (SSOs), and
- Is part of the overall long-term investments to our wastewater system through the year 2025.

In 2011, LCERP repaired or rehabilitated approximately 46,687 feet of sewer pipe less than 10 inches in diameter, representing approximately 189 line segments, at a cost of \$4,561,653.

### Manhole Evaluation and Rehabilitation Project (MHERP)

MHERP has been developed as a comprehensive program to provide the rehabilitation of sanitary sewer manholes throughout the Colorado Springs Utilities wastewater collection system

MHERP. It is designed to:

- Reduce the risk of spills, stoppages, and SSOs, and
- Reduce infiltration and inflow at manholes throughout collection system.

In 2011, MHERP repaired or rehabilitated 334 manholes, at a cost of \$776,836.

### Collection System Rehabilitation and Replacement Project (R&R)

The R&R project rehabilitates or replaces large diameter (greater than 10 inches) sewer pipe that were installed after January 1, 1994<sup>1</sup>.

R&R:

- Facilitates operations, increase capacity, and upgrade the system,
- Focuses on the reduction of SSOs and stoppages, and
- Reduces the risk of spills and protects the public health and environment.

There were no pipes rehabilitated in 2011 that would be covered by the terms of the 1041 Permit. All rehabilitation or replacement work on large diameter (greater than 10 inches) sewer pipe that was installed prior to January 1, 1994, was required by CDPHE Compliance Orders and consisted of CIPP and/or point repairs.

### Wastewater Reuse System

Colorado Springs maintains a tertiary treatment facility along with a non-potable distribution system.

Wastewater Reuse Systems:

- Deliver tertiary-treated wastewater to parks, cemeteries, golf courses, and commercial properties for landscape irrigation,
- Deliver tertiary treated wastewater to Drake Power Plant for evaporative cooling, and
- Include supplies from raw surface water, groundwater, and reclaimed water.

Only normal operation and maintenance of the reuse system was conducted in 2011. There were no additions to the reuse system in 2011.

### Summary

During the reporting period of January 1, 2011 through December 31, 2011 costs for LCERP and MHERP totaled \$5,338,489. Since January 1, 2009, Colorado Springs Utilities has spent a total of \$23.9M towards meeting Condition No. 7 of the 1041 permit.

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<sup>1</sup> The Sanitary Sewer Evaluation and Rehabilitation Program, which includes large diameter pipe installed prior to 1994, and the Sanitary Sewer Creek Crossing Project are compliance order Wastewater Collection System Rehabilitation Programs that do not meet the terms of Condition No. 7. The forgoing compliance activities resulted in an expenditure of \$6.39M in 2011.



Colorado Springs Utilities  
*It's how we're all connected*

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**Pueblo County 1041 Permit**

**Expenditures for Wastewater System  
Improvements**

**Annual Progress Report**

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January 18, 2012

Reporting for the period between January 1, 2011 and December 31, 2011.

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### **APPENDIX A – LCERP COMPLETION TABLE**

### **APPENDIX B – MHERP COMPLETION TABLE**



## Introduction

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On March 18, 2009 the Pueblo Board of County Commissioners passed Resolution No. P&D 09-22, approving 1041 Permit No. 2008-002 with terms and conditions for construction of the Southern Delivery System water project within Pueblo County, Colorado.

1041 Permit Condition No.7 requires that Springs Utilities provide an annual report to the Pueblo County Board of Commissioners on or before January 31 of each year reporting the Wastewater System Improvement expenditures from January 1 through December 31. Condition No.7 of the permit states:

***Expenditures for Wastewater System Improvements***

*In order to continue its efforts to protect against future spills to Fountain Creek, to increase its opportunities for reuse, and to mitigate possible water quality impacts by the SDS Project to Fountain Creek, Colorado Springs Utilities shall commit to invest an additional seventy-five million dollars (\$75,000,000) in its wastewater system. Expenditures will be made as part of the wastewater collection system rehabilitation programs or wastewater reuse systems between January 1, 2010 and December 31, 2024 as required. These expenditures shall be for projects not currently required by other regulatory permits, agency enforcement or court orders, consent agreements, or governmental regulations existing as of January 30, 2010. These expenditures will include the Local Collector Evaluation and Rehabilitation Program (LCERP) for the improvement and fortification of wastewater lines which could adversely affect Fountain Creek or its tributaries. These expenditures are subject to annual appropriation by the Colorado Springs City Council. Beginning in 2010, by January 31 of each year, Colorado Springs Utilities shall provide an annual report to Pueblo County describing such expenditures for the prior year.*

The Wastewater Collection System Rehabilitation Programs are comprehensive programs that systematically inspect, evaluate, prioritize, and rehabilitate the entire Springs Utilities collection system. In 2011 the projects that met the terms of Condition No. 7 are: 1) the Local Collectors Evaluation and Rehabilitation Project (LCERP); 2), the Manhole Evaluation and Rehabilitation Project (MHERP); and 3) the Collection System Rehabilitation and Replacement Project (R&R). These projects are independent of Springs Utilities' normal operation and maintenance programs.

The Wastewater Reuse System consists of several pumping stations, storage reservoirs, holding ponds transmission mains and a tertiary treatment facility.

## Project Descriptions

### Local Collectors Evaluation and Rehabilitation Project (LCERP)

LCERP consists of the systematic evaluation and rehabilitation of sewer collection pipes less than 10-inch in diameter.

**LCERP:**

- Determines the condition of all the sanitary sewer pipe segments less than 10-inches in diameter and places them by priority on a schedule to be re-inspected, rehabilitated, repaired and/or replaced.
- Reduces the risk of Sanitary Sewer Overflows (SSO's)
- Is part of the overall long-term investments to our wastewater system through the year 2025.

LCERP repaired or rehabilitated approximately 46,687 feet of less than 10-inch sewer pipe, representing approximately 189 line segments, at a cost of \$4,561,653 in 2011.

## Manhole Evaluation and Rehabilitation Project (MHERP)

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MHERP has been developed as a comprehensive program to provide the rehabilitation of sanitary sewer manholes throughout the Springs Utilities wastewater collection system

MHERP:

- Is designed to reducing the risk of spills, stoppages and SSOs
- Reduces infiltration and inflow at manholes throughout collection system.

MHERP repaired or rehabilitated 334 manholes, at a cost of \$776,836 in 2011.

## Collection System Rehabilitation and Replacement Project (R&R)

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The R&R project rehabilitates or replaces large diameter (greater than 10-inch) sewer pipe that were installed after January 1, 1994<sup>1</sup>.

R&R:

- Is designed to facilitate operations, increase capacity, and upgrade the system
- Focuses on the reduction of sanitary sewer overflows and stoppages
- Reduces the risk of spills and protecting the public health and environment.

There were no pipes rehabilitated in 2011 that would be applicable to the terms of the 1041 Permit. All rehabilitation or replacement work on large diameter (greater than 10-inch) sewer pipe that were installed after January 1, 1994, was on CDPHE Compliance Order pipes and consisted of CIPP and/or point repairs.

## Wastewater Reuse System

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Colorado Springs maintains a tertiary treatment facility along with a non-potable distribution system.

Wastewater Reuse Systems:

- Deliver tertiary-treated wastewater to parks, cemeteries, golf courses and commercial properties for landscape irrigation
- Deliver tertiary treated wastewater to Drake Power Plant for evaporative cooling
- Include supplies from raw surface water, groundwater, and reclaimed water

Only normal operation and maintenance of the reuse system was conducted in 2011.

## Summary

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During the reporting period of January 1, 2011 through December 31, 2011 costs for LCERP and MHERP totaled \$5,338,489.0

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<sup>1</sup> The Sanitary Sewer Evaluation and Rehabilitation Program, which includes large diameter pipe installed prior to 1994, and the Sanitary Sewer Creek Crossing Project are compliance order Wastewater Collection System Rehabilitation Programs that do not meet the terms of Condition No. 7. The forgoing compliance activities resulted in an expenditure of \$6.39M in 2011.

## **Appendix A**

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# 2011 - Local Collectors Evaluation and Rehabilitation Project

CSU Location ID	Work Order #	DIAMETER (inches)	LENGTH (feet)	Assesment Description	Collection Basin Name	Date Complete
WW.141771	1862931	8	352	CIPP	GARDEN OF THE GODS	04/05/2011
WW.135399	1826871	8	537	CIPP	GARDEN OF THE GODS	01/05/2011
WW.135398	1826509	8	320	CIPP	GARDEN OF THE GODS	01/05/2011
WW.148137	1827437	8	362	CIPP	GARDEN OF THE GODS	01/06/2011
WW.164433	1827445	8	315	CIPP	GARDEN OF THE GODS	01/06/2011
WW.162180	1826912	8	133	CIPP	GARDEN OF THE GODS	01/27/2011
WW.143831	1826912	8	123	CIPP	GARDEN OF THE GODS	01/26/2011
WW.132337	1825823	8	498	CIPP	GARDEN OF THE GODS	06/07/2011
WW.151138	1923497	8	401	CIPP	TEMPLETON GAP	02/14/2011
WW.153156	1923502	8	401	CIPP	TEMPLETON GAP	02/14/2011
WW.160291	1923542	8	370	CIPP	TEMPLETON GAP	02/15/2011
WW.157276	1923539	8	402	CIPP	TEMPLETON GAP	02/11/2011
WW.155162	1923530	8	369	CIPP	TEMPLETON GAP	02/16/2011
WW.151147	1923495	8	176	CIPP	TEMPLETON GAP	02/17/2011
WW.163382	1923493	8	393	CIPP	TEMPLETON GAP	02/18/2011
WW.159332	1923523	8	272	CIPP	TEMPLETON GAP	02/18/2011
WW.155160	1923521	8	365	CIPP	TEMPLETON GAP	02/17/2011
WW.164876	1923517	8	269	CIPP	TEMPLETON GAP	02/17/2011
WW.133704	1923515	8	245	CIPP	TEMPLETON GAP	02/21/2011
WW.149154	1923512	8	230	CIPP	TEMPLETON GAP	02/21/2011
WW.157277	1923513	8	312	CIPP	TEMPLETON GAP	02/22/2011
WW.138851	1923508	8	308	CIPP	TEMPLETON GAP	02/22/2011
WW.140889	1923472	8	306	CIPP	TEMPLETON GAP	02/21/2011
WW.155161	1923474	8	255	CIPP	TEMPLETON GAP	02/21/2011
WW.161368	1923469	8	289	CIPP	TEMPLETON GAP	02/24/2011
WW.133703	1923483	8	231	CIPP	TEMPLETON GAP	02/24/2011
WW.135663	1901772	8	345	CIPP	TEMPLETON GAP	02/22/2011
WW.145106	1923660	8	165	CIPP	TEMPLETON GAP	02/22/2011
WW.149157	1923662	8	168	CIPP	TEMPLETON GAP	02/18/2011
WW.145107	1923654	8	375	CIPP	TEMPLETON GAP	02/18/2011
WW.161377	2137212	8	148	CIPP	TEMPLETON GAP	02/18/2011
WW.155174	1904514	8	139	CIPP	TEMPLETON GAP	02/18/2011
WW.160292	1923467	8	279	CIPP	TEMPLETON GAP	02/18/2011
WW.133721	1923463	8	397	CIPP	TEMPLETON GAP	02/21/2011
WW.140898	1923468	8	281	CIPP	TEMPLETON GAP	02/21/2011
WW.163392	1923465	8	312	CIPP	TEMPLETON GAP	02/19/2011
WW.136815	1893000	8	408	CIPP	TEMPLETON GAP	02/19/2011
WW.163395	1928744	8	202	CIPP	TEMPLETON GAP	02/21/2011
WW.145113	1928806	8	306	CIPP	TEMPLETON GAP	02/22/2011
WW.178792	1928808	8	137	CIPP	TEMPLETON GAP	02/22/2011
WW.178791	1928809	8	188	CIPP	TEMPLETON GAP	02/21/2011
WW.147184	1928810	8	143	CIPP	TEMPLETON GAP	02/21/2011
WW.155183	1897717	8	214	CIPP	TEMPLETON GAP	02/21/2011
WW.163399	1897712	8	253	CIPP	TEMPLETON GAP	02/22/2011
WW.148870	1856952	8	420	CIPP	UPPER SAND CREEK	02/22/2011
WW.159054	1807512	8	171	CIPP	UPPER SAND CREEK	02/22/2011
WW.136513	2045408	8	308	CIPP	UPPER SAND CREEK	02/21/2011
WW.152946	1858789	8	92	CIPP	UPPER SAND CREEK	02/24/2011
WW.159090	2137221	8	125	CIPP	UPPER SAND CREEK	02/25/2011
WW.163172	2137215	8	335	CIPP	UPPER SAND CREEK	02/24/2011
WW.142759	2137217	8	205	CIPP	UPPER SAND CREEK	02/22/2011
WW.150940	2137219	8	286	CIPP	UPPER SAND CREEK	02/22/2011
WW.133281	2137216	8	398	CIPP	UPPER SAND CREEK	02/22/2011
WW.133331	1858785	8	190	CIPP	UPPER SAND CREEK	02/25/2011
WW.150941	2137813	8	133	CIPP	UPPER SAND CREEK	02/25/2011
WW.152954	2137811	8	117	CIPP	UPPER SAND CREEK	02/25/2011
WW.152953	2137809	8	103	CIPP	UPPER SAND CREEK	02/25/2011
WW.143870	1723730	6	260	Replacement	WEST SIDE	02/25/2011
WW.144161	2138161	8	185	Replacement	PEREGRINE	03/11/2011
WW.162200	1707159	8	277	Replacement	WEST SIDE	03/22/2011
WW.133951	1822962	6	404	Replacement	SOUTH TEJON	03/04/2011
WW.149314	1780068	8	275	Replacement	SOUTH TEJON	03/12/2011
WW.149711	2137835	6	252	Replacement	SHOOKS RUN	04/14/2011
WW.153311	2137833	6	252	Replacement	SOUTH TEJON	03/14/2011
WW.157412	1822347	6	472	Replacement	SOUTH TEJON	03/30/2011
WW.159497	1821755	6	400	Replacement	SOUTH TEJON	04/20/2011

# 2011 - Local Collectors Evaluation and Rehabilitation Project

CSU Location ID	Work Order #	DIAMETER (inches)	LENGTH (feet)	Assesment Description	Collection Basin Name	Date Complete
WW.136939	2137832	6	248	Replacement	SOUTH TEJON	04/04/2011
WW.151645	1861852	6	456	Replacement	SHOOKS RUN	04/12/2011
WW.154013	2055700	6	126	Replacement	SHOOKS RUN	03/25/2011
WW.155673	2137834	6	61	Replacement	SHOOKS RUN	05/09/2011
WW.136816	1946659	8	29	Replacement	SHOOKS RUN	05/09/2011
WW.167260	1918125	8	114	Replacement	TEMPLETON GAP	04/03/2011
WW.152053	1705196	6	463	Replacement	SHOOKS RUN	04/14/2011
WW.153661	1858822	6	404	Replacement	SHOOKS RUN	04/07/2011
WW.153161	1934136	8	254	Replacement	TEMPLETON GAP	02/02/2011
WW.143510	1792312	6	333	Replacement	SHOOKS RUN	02/02/2011
WW.138408	1952060	8	489	Replacement	TEMPLETON GAP	03/15/2011
WW.140664	2137831	8	267	Replacement	UPPER SAND CREEK	04/15/2011
WW.194983	2157408	8	358	CIPP	TEMPLETON GAP	04/28/2011
WW.133761	1962372	8	109	CIPP	TEMPLETON GAP	04/29/2011
WW.137762	1960405	8	115	CIPP	TEMPLETON GAP	05/05/2011
WW.154774	1960409	8	335	CIPP	TEMPLETON GAP	04/28/2011
WW.150783	1952975	8	355	CIPP	TEMPLETON GAP	04/28/2011
WW.132931	1957274	8	400	CIPP	TEMPLETON GAP	05/05/2011
WW.140488	1957276	8	347	CIPP	TEMPLETON GAP	05/09/2011
WW.187559	1951871	8	257	CIPP	TEMPLETON GAP	05/11/2011
WW.158947	1951994	8	441	CIPP	TEMPLETON GAP	05/04/2011
WW.136420	1951999	8	346	CIPP	TEMPLETON GAP	05/02/2011
WW.163005	1944030	8	256	CIPP	TEMPLETON GAP	05/02/2011
WW.137766	1953122	8	314	CIPP	TEMPLETON GAP	05/10/2011
WW.158983	1957281	8	349	CIPP	TEMPLETON GAP	05/10/2011
WW.146807	1949275	8	221	CIPP	TEMPLETON GAP	05/13/2011
WW.133054	1944023	8	271	CIPP	TEMPLETON GAP	05/16/2011
WW.158984	1944019	8	196	CIPP	TEMPLETON GAP	05/20/2011
WW.136463	1944022	8	236	CIPP	TEMPLETON GAP	05/18/2011
WW.164273	2170371	8	170	CIPP	WEST SIDE	05/19/2011
WW.164274	2166355	8	31	CIPP	WEST SIDE	05/20/2011
WW.152025	2166530	8	385	CIPP	WEST SIDE	05/31/2011
WW.160293	1929359	8	369	CIPP	TEMPLETON GAP	05/31/2011
WW.145124	1929360	8	159	CIPP	TEMPLETON GAP	06/21/2011
WW.157295	1929362	8	228	CIPP	TEMPLETON GAP	06/21/2011
WW.149185	1929364	8	252	CIPP	TEMPLETON GAP	06/21/2011
WW.161387	2074526	8	216	CIPP	TEMPLETON GAP	06/22/2011
WW.133746	2074524	8	244	CIPP	TEMPLETON GAP	06/22/2011
WW.159364	2074523	8	246	CIPP	TEMPLETON GAP	06/22/2011
WW.163412	2074520	8	291	CIPP	TEMPLETON GAP	06/23/2011
WW.133750	1929370	8	151	CIPP	TEMPLETON GAP	06/23/2011
WW.159365	1929372	8	206	CIPP	TEMPLETON GAP	06/24/2011
WW.157297	1929373	8	192	CIPP	TEMPLETON GAP	06/24/2011
WW.145125	1929381	8	180	CIPP	TEMPLETON GAP	06/24/2011
WW.143010	2074529	8	155	CIPP	TEMPLETON GAP	06/23/2011
WW.136828	1929384	8	155	CIPP	TEMPLETON GAP	06/23/2011
WW.147192	1929389	8	400	CIPP	TEMPLETON GAP	06/23/2011
WW.157296	1856955	8	218	CIPP	TEMPLETON GAP	06/22/2011
WW.155192	1929365	8	183	CIPP	TEMPLETON GAP	06/22/2011
WW.159366	1929367	8	128	CIPP	TEMPLETON GAP	06/28/2011
WW.151174	1929368	8	318	CIPP	TEMPLETON GAP	06/28/2011
WW.133748	1929369	8	238	CIPP	TEMPLETON GAP	06/24/2011
WW.132826	1929427	8	334	CIPP	TEMPLETON GAP	06/24/2011
WW.132827	1912613	8	277	CIPP	TEMPLETON GAP	06/27/2011
WW.157300	1929371	8	317	CIPP	TEMPLETON GAP	06/27/2011
WW.144668	2047836	8	302	CIPP	TEMPLETON GAP	06/24/2011
WW.156897	2047838	8	351	CIPP	TEMPLETON GAP	09/20/2011
WW.144670	2205236	8	195	CIPP	TEMPLETON GAP	09/20/2011
WW.138490	2205239	8	388	CIPP	TEMPLETON GAP	09/26/2011
WW.156903	2026568	8	110	CIPP	TEMPLETON GAP	09/26/2011
WW.164368	2026564	8	374	CIPP	TEMPLETON GAP	10/11/2011
WW.148748	2026553	8	133	CIPP	TEMPLETON GAP	10/11/2011
WW.138485	2029760	8	426	CIPP	TEMPLETON GAP	10/11/2011
WW.152777	2208548	8	302	CIPP	TEMPLETON GAP	09/19/2011
WW.146761	2041097	8	324	CIPP	TEMPLETON GAP	09/13/2011
WW.154786	2029568	8	274	CIPP	TEMPLETON GAP	09/13/2011

# **2011 - Local Collectors Evaluation and Rehabilitation Project**

CSU Location ID	Work Order #	DIAMETER (inches)	LENGTH (feet)	Assesment Description	Collection Basin Name	Date Complete
WW.146762	2208549	8	246	CIPP	TEMPLETON GAP	10/05/2011
WW.160271	2029540	8	409	CIPP	TEMPLETON GAP	10/05/2011
WW.140503	2029563	8	40	CIPP	TEMPLETON GAP	10/14/2011
WW.141882	2205241	8	126	CIPP	TEMPLETON GAP	10/15/2011
WW.132966	2029606	8	119	CIPP	TEMPLETON GAP	10/04/2011
WW.148753	2029610	8	130	CIPP	TEMPLETON GAP	10/04/2011
WW.148755	2205238	8	173	CIPP	TEMPLETON GAP	10/04/2011
WW.144672	2051774	8	222	CIPP	TEMPLETON GAP	09/12/2011
WW.163012	2205232	8	227	CIPP	TEMPLETON GAP	09/21/2011
WW.154071	2048303	8	444	CIPP	TEMPLETON GAP	09/21/2011
WW.162303	2048306	8	316	CIPP	TEMPLETON GAP	09/27/2011
WW.138528	2205242	8	265	CIPP	TEMPLETON GAP	10/06/2011
WW.150827	2048310	8	156	CIPP	TEMPLETON GAP	09/28/2011
WW.133062	2051717	8	217	CIPP	TEMPLETON GAP	09/28/2011
WW.156927	2051671	8	269	CIPP	TEMPLETON GAP	10/06/2011
WW.163044	2051711	8	266	CIPP	TEMPLETON GAP	10/06/2011
WW.156142	2051601	8	182	CIPP	TEMPLETON GAP	10/20/2011
WW.148757	2048301	8	313	CIPP	TEMPLETON GAP	09/22/2011
WW.154070	2140922	8	233	CIPP	TEMPLETON GAP	09/22/2011
WW.163014	2208553	8	128	CIPP	TEMPLETON GAP	10/12/2011
WW.144675	2208549	8	148	CIPP	TEMPLETON GAP	10/12/2011
WW.144628	2047063	8	288	CIPP	TEMPLETON GAP	10/12/2011
WW.156868	2047072	8	269	CIPP	TEMPLETON GAP	09/15/2011
WW.138499	2140924	8	201	CIPP	TEMPLETON GAP	10/12/2011
WW.161007	2208551	8	250	CIPP	TEMPLETON GAP	10/03/2011
WW.139801	2029757	8	456	CIPP	TEMPLETON GAP	10/03/2011
WW.144687	2029513	8	250	CIPP	TEMPLETON GAP	10/17/2011
WW.136427	2029514	8	297	CIPP	TEMPLETON GAP	10/10/2011
WW.144688	2051831	8	215	CIPP	TEMPLETON GAP	10/10/2011
WW.150799	2051834	8	381	CIPP	TEMPLETON GAP	10/18/2011
WW.163021	2208552	8	180	CIPP	TEMPLETON GAP	10/18/2011
WW.136434	2029598	8	272	CIPP	TEMPLETON GAP	10/18/2011
WW.136429	2029600	8	148	CIPP	TEMPLETON GAP	10/19/2011
WW.142640	2205233	8	283	CIPP	TEMPLETON GAP	10/19/2011
WW.138537	2205240	8	249	CIPP	TEMPLETON GAP	10/13/2011
WW.133079	2051728	8	50	CIPP	TEMPLETON GAP	09/15/2011
WW.132807	1946375	8	67	Replacement	TEMPLETON GAP	08/15/2011
WW.132875	1950433	8	27	Replacement	TEMPLETON GAP	08/16/2011
WW.136417	1946302	6	329	Replacement	TEMPLETON GAP	09/17/2011
WW.136607	1960517	8	85	Replacement	TEMPLETON GAP	07/18/2011
WW.138820	1959323	8	56	Replacement	TEMPLETON GAP	09/19/2011
WW.142544	1945017	8	41	Replacement	TEMPLETON GAP	09/20/2011
WW.150713	1946369	8	67	Replacement	TEMPLETON GAP	07/08/2011
WW.150756	1945723	8	157	Replacement	TEMPLETON GAP	09/22/2011
WW.144634	1946260	8	21	Replacement	TEMPLETON GAP	09/23/2011
WW.148708	1945441	8	21	Replacement	TEMPLETON GAP	09/24/2011
WW.150728	1946262	8	20	Replacement	TEMPLETON GAP	09/28/2011
WW.158909	2213456	8	41	Replacement	TEMPLETON GAP	09/26/2011
WW.132715	1936986	8	12	Replacement	TEMPLETON GAP	09/27/2011
WW.132951	1946383	8	37	Replacement	TEMPLETON GAP	09/28/2011
WW.136790	1944979	8	145	Replacement	TEMPLETON GAP	09/29/2011
WW.146715	2215019	8	11	Replacement	TEMPLETON GAP	09/30/2011
WW.147662	1414261	8	618	Replacement	SHOOKS RUN	09/14/2011
WW.148697	1940610	8	49	Replacement	SHOOKS RUN	10/07/2011
WW.148701	2214635	8	52	Replacement	SHOOKS RUN	09/19/2011
WW.155198	1946362	8	185	Replacement	SHOOKS RUN	10/04/2011
WW.161773	1852328	8	502	Replacement	SHOOKS RUN	10/05/2011
<b>Totals</b>			<b>46,687</b>	<b>189</b>		

## **Appendix B**

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**2011 - Manhole Evaluation and Rehabilitation Project**

<b>Manhole Evaluation and Rehabilitation Project</b>				
<b>CSU Location ID #</b>	<b>Work Order #</b>	<b>Diameter (feet)</b>	<b>Depth (feet)</b>	<b>Date Complete</b>
WW.111244	2108842	4	7.4	01/25/2011
WW.113285	2108847	4	11.2	01/25/2011
WW.102755	2108850	5	7.3	01/14/2011
WW.102757	2108852	4	8.4	01/19/2011
WW.125288	2108855	4	9.9	01/19/2011
WW.102941	2108855	4	6.7	01/21/2011
WW.115446	2108857	4	12.6	01/26/2011
WW.102943	2113968	4	5.7	01/21/2011
WW.129358	2111510	5	13.9	01/28/2011
WW.119353	2108860	4	12.7	01/26/2011
WW.123299	2108862	4	23.7	01/27/2011
WW.123300	2108863	4	9	01/21/2011
WW.131364	2108864	4	7.5	01/26/2011
WW.119403	2355334	4	10.3	10/28/2011
WW.115500	2119899	4	9	01/28/2011
WW.127446	2108865	5	14.1	01/28/2011
WW.111020	2111510	4	13.1	03/02/2011
WW.102294	2108868	4	7.6	03/09/2011
WW.109083	2108869	4	11.6	04/07/2011
WW.111057	2108870	4	17.6	02/28/2011
WW.117114	2108872	4	10.1	03/03/2011
WW.120990	2108875	4	13	03/01/2011
WW.125010	2108877	4	8.6	03/02/2011
WW.105083	2108879	5	14.2	02/23/2011
WW.113122	2108884	5	12.2	02/23/2011
WW.115130	2108886	6	21.1	02/24/2011
WW.129046	2108889	5	12.4	02/23/2011
WW.102442	2108891	5	19.9	01/18/2011
WW.113137	2108893	5	14.9	01/18/2011
WW.102459	2108894	5	12.6	01/17/2011
WW.102463	2108898	5	12.5	01/06/2011
WW.105137	2108901	5	12.4	04/05/2011
WW.105147	2108904	5	10.2	02/24/2011
WW.107143	2108905	5	17.8	02/21/2011
WW.109171	2108906	5	12.8	01/15/2011
WW.111133	2108908	5	18	04/05/2011
WW.111134	2108909	5	12.4	01/15/2011
WW.111143	2108910	5	12.8	01/17/2011
WW.115195	2108911	5	13.1	01/15/2011
WW.117198	2108912	5	11.5	01/17/2011
WW.119116	2108914	5	12.8	01/15/2011
WW.127140	2108916	6	14.5	01/15/2011
WW.127141	2108917	5	12.5	11/15/2011
WW.129110	2108920	5	13.2	01/06/2011
WW.104708	2108922	5	25.1	03/22/2011
WW.106680	2108928	5	16.1	03/15/2011
WW.106689	2108929	5	23	04/07/2011
WW.114765	2108962	5	10.6	03/14/2011
WW.122576	2108965	5	11	03/21/2011
WW.126665	2108995	5	26.2	03/17/2011
WW.164981	2109037	5	8.1	03/12/2011
WW.101644	2109039	5	22	04/01/2011
WW.101668	2109318	4	16	08/25/2011
WW.110745	2109320	4	17.9	07/05/2011
WW.126690	2109551	4	9.6	08/25/2011
WW.130688	2109554	4	20	07/05/2011
WW.101729	2109555	5	10	06/29/2011
WW.104752	2109559	5	10.3	06/21/2011
WW.106718	2109562	5	10.3	06/29/2011
WW.112809	2109564	5	10.3	06/22/2011
WW.112810	2109571	5	10.7	06/23/2011
WW.112811	2105972	5	10	06/21/2011
WW.112813	2109575	5	11	06/23/2011
WW.118716	2109578	5	10	06/21/2011
WW.124672	2109582	5	22.3	06/30/2011
WW.128727	2109654	5	11.1	06/22/2011
WW.128728	2109655	5	10	03/29/2011
WW.101737	2109656	4	10.6	07/19/2011
WW.104757	2109657	4	9.7	07/19/2011



**2011 - Manhole Evaluation and Rehabilitation Project**

<b>Manhole Evaluation and Rehabilitation Project</b>				
<b>CSU Location ID #</b>	<b>Work Order #</b>	<b>Diameter (feet)</b>	<b>Depth (feet)</b>	<b>Date Complete</b>
WW.112819	2109658	4	10	07/12/2011
WW.114823	2109659	4	9.8	07/07/2011
WW.120696	2109660	4	12.6	07/13/2011
WW.122631	2109662	4	10	07/12/2011
WW.124703	2109664	4	10	07/07/2011
WW.110790	2109665	4	9.3	08/30/2011
WW.101822	2109666	5	5.8	04/21/2011
WW.101827	2109669	5	21	05/20/2011
WW.101835	2109670	4	13.7	05/12/2011
WW.104795	2109672	5	11.6	05/20/2011
WW.104796	2109674	5	5.9	07/31/2011
WW.106773	2109675	5	7.2	04/22/2011
WW.108824	2109677	5	9.6	04/21/2011
WW.108826	2109681	5	9.7	04/21/2011
WW.108832	2109682	4	12.7	05/19/2011
WW.108833	2109683	4	6.5	05/18/2011
WW.110812	2109684	5	14.2	05/18/2011
WW.110814	2109821	4	12.4	05/17/2011
WW.110815	2109822	4	9.5	05/18/2011
WW.112850	2109823	5	5.7	04/21/2011
WW.194944	2168227	5	20.5	05/05/2011
WW.116816	2109825	5	6.2	04/22/2011
WW.120744	2109826	5	14	05/12/2011
WW.124752	2109827	4	8.1	05/17/2011
WW.126778	2109828	4	7.8	05/17/2011
WW.130758	2109829	5	8.7	04/20/2011
WW.130759	2109830	5	5.7	04/21/2011
WW.165060	2109831	5	19	05/03/2011
WW.101841	2109832	4	8.4	07/21/2011
WW.106787	2109833	4	14.2	03/31/2011
WW.108836	2109834	4	7	05/19/2011
WW.110817	2109835	4	7.3	03/31/2011
WW.126780	2109836	4	6.6	03/31/2011
WW.130787	2109837	5	10.4	07/25/2011
WW.112923	2109840	4	17.3	03/30/2011
WW.101949	2109841	4	10.4	09/21/2011
WW.101952	2109842	5	15	06/28/2011
WW.105232	2109843	4	10.4	6/13/11
WW.106864	2109844	4	13.1	6/13/11
WW.107239	2109853	4	8.3	6/15/11
WW.111223	2109854	5	14.8	6/27/11
WW.126869	2109855	6	15.3	6/30/11
WW.129204	2109856	5	18.9	6/28/11
WW.129206	2109857	5	13.6	6/27/11
WW.131220	2109858	4	25.1	6/16/11
WW.130888	2119905	4	11.5	3/10/11
WW.128110	2119906	5	9	3/1/11
WW.126929	2119909	4	11.6	3/10/11
WW.130900	2119912	4	8.5	3/9/11
WW.111529	2177638	5	15.7	5/26/11
WW.113280	2063053	5	8	6/2/11
WW.107758	2063051	5	10	6/2/11
WW.197784	2183256	5	12.8	7/18/11
WW.197766	2183258	4	18.1	6/28/11
WW.197764	2183257	4	17.5	6/5/11
WW.128907	2203031	5	11.1	7/26/11
WW.115002	2203032	6	9.7	7/26/11
WW.120104	2063049	5	12	7/25/11
WW.117338	2194729	4	14.3	8/19/11
WW.123209	2194731	4	12.6	8/19/11
WW.121241	2194828	4	9.5	8/22/11
WW.115456	2194830	4	11.7	8/23/11
WW.105456	2194733	4	16.7	8/12/11
WW.117511	2194740	4	6	7/26/11
WW.123416	2194742	5	13.3	7/28/11
WW.131483	2194746	4	14.4	7/28/11
WW.113552	2205690	4	14.2	8/3/11
WW.105099	2194751	5	20	8/8/11
WW.115159	2194752	6	20.2	8/8/11

**2011 - Manhole Evaluation and Rehabilitation Project**

<b>Manhole Evaluation and Rehabilitation Project</b>				
<b>CSU Location ID #</b>	<b>Work Order #</b>	<b>Diameter (feet)</b>	<b>Depth (feet)</b>	<b>Date Complete</b>
WW.122981	2194754	5	16.6	8/31/11
WW.127110	2194755	5	19.7	8/3/11
WW.109185	2194757	5	10.4	8/17/11
WW.109183	2194758	5	14.4	8/18/11
WW.104783	2194764	5	16.2	7/22/11
WW.122750	2194765	4	7.9	8/15/11
WW.101930	2194767	4	24.7	8/16/11
WW.110869	2194768	5	25.6	8/15/11
WW.102788	2194770	4	11.1	8/4/11
WW.102789	2194771	5	10.6	8/4/11
WW.102792	2194773	5	4.6	8/9/11
WW.105302	2194775	4	7.1	8/9/11
WW.107313	2194776	4	7.1	8/5/11
WW.109354	2194777	4	9.7	8/4/11
WW.117350	2194778	4	10.3	8/10/11
WW.127307	2194779	4	4.4	8/9/11
WW.131286	2194780	4	7.1	8/5/11
WW.119318	2122947	4	9.4	1/4/10
WW.123315	2194831	4	8.7	8/24/11
WW.102974	2194832	5	8.9	8/25/11
WW.125528	2194784	4	8.2	8/22/11
WW.131760	2194786	5	7.4	8/19/11
WW.103719	2194787	4	13	8/19/11
WW.131781	2194788	5	9	8/31/11
WW.115796	2194789	4	6.5	8/31/11
WW.102570	2194791	4	12.2	8/22/11
WW.101993	2194792	4		8/31/11
WW.119779	2194794	5	11.6	8/31/11
WW.111802	2206117	4	11	9/1/11
WW.127010	2210837	4	12.4	8/11/11
WW.103125	2204491	4	10	8/25/11
WW.103127	2204492	4	13.7	8/24/11
WW.105486	2204494	4	9	8/25/11
WW.105489	2204495	5	9.6	8/25/11
WW.107470	2204496	5	11.2	8/24/11
WW.117490	2204497	5	14	8/25/11
WW.117495	2204498	5	10.6	8/23/11
WW.123386	2204501	5	8.5	11/1/11
WW.125446	2204502	5	8x12	8/25/11
WW.125447	2204503	5	20.9	11/9/11
WW.125451	2204504	5	9	8/23/11
WW.129444	2204508	5	20	11/3/11
WW.129445	2204509	5	18.5	11/1/11
WW.129447	2204510	5	10.7	8/24/11
WW.119438	2204511	5	11.6	8/30/11
WW.103191	2204514	5	16.1	9/6/11
WW.103192	2204515	5	13.6	9/1/11
WW.105516	2204516	4	7.3	9/6/11
WW.109543	2204517	6	12.2	9/6/11
WW.111491	2204518	6	17.5	11/10/11
WW.113559	2204519	5	17.6	9/9/11
WW.113560	2204520	6	15.6	9/14/11
WW.123422	2204521	6	10x10x20	9/19/11
WW.127482	2204522	6	19.3	9/8/11
WW.109546	2204523	6	8	11/28/11
WW.113561	2204525	9x15	15.2	9/20/11
WW.121429	2204526	6	17x4x8	11/28/11
WW.123426	2204528	5	11x9x19.5	9/30/11
WW.131497	2204530	5	13x9x18	9/20/11
WW.104389	2204531	5	9.2	11/14/11
WW.116366	2204532	5	10	11/14/11
WW.130343	2204534	9x15	9.8	11/10/11
WW.108460	2204535	4	14.8	11/28/11
WW.112449	2204537	4	16.2	11/30/11
WW.117529	2204548	4	19	11/18/11
WW.127493	2204551	5	19	11/18/11
WW.107530	2219502	4	12.7	10/19/11
WW.129498	2219505	4	7.8	9/26/11
WW.129500	2199506	4	7.9	9/27/11

**2011 - Manhole Evaluation and Rehabilitation Project**

<b>Manhole Evaluation and Rehabilitation Project</b>				
<b>CSU Location ID #</b>	<b>Work Order #</b>	<b>Diameter (feet)</b>	<b>Depth (feet)</b>	<b>Date Complete</b>
WW.103246	2219510	5	7.4	9/26/11
WW.123451	2219511	5	9.1	9/26/11
WW.119507	2219535	5	11.3	10/17/11
WW.125524	2219544	4	12.6	10/10/11
WW.131544	2219558	4	11.8	10/13/11
WW.103356	2219566	5	15.3	10/19/11
WW.113600	2219575	5	14	10/12/11
WW.115621	2219579	5	18.4	10/10/11
WW.117580	2219581	5	19.8	10/18/11
WW.119543	2219582	5	15	11/29/11
WW.121496	2219584	5	11.9	10/6/11
WW.123467	2219585	5	15	10/12/11
WW.103422	2219587	5	9.1	10/10/11
WW.109632	2219588	5	10.5	10/6/11
WW.119573	2219590	5	9.1	10/10/11
WW.103434	2219591	4	7.2	9/12/11
WW.103439	2219592	5	8.8	9/12/11
WW.113667	2219594	4	8.3	9/12/11
WW.121537	2219595	4	7.9	9/12/11
WW.129597	2219597	5	8.8	9/12/11
WW.103490	2219598	4	8.2	9/13/11
WW.103491	2219600	4	22.8	09/19/2011
WW.103494	2219601	4	12	09/19/2011
WW.103496	2219603	5	12.1	09/19/2011
WW.103497	2219604	5	12.5	09/19/2011
WW.103498	2219605	5	12.4	09/26/2011
WW.113690	2219607	5	14.2	09/14/2011
WW.115840	2219608	5	10.2	09/19/2011
WW.123554	2219609	5	12.5	09/14/2011
WW.127635	2219610	5	18.5	09/14/2011
WW.129627	2219611	5	5.8	09/13/2011
WW.165965	2219612	5	11.2	09/14/2011
WW.101162	2199665	5	10.1	08/11/2011
WW.104452	2199666	4	10.1	08/16/2011
WW.108466	2199667	6	10.5	08/16/2011
WW.114487	2199668	4	10.9	08/16/2011
WW.124397	2199669	4	11.1	08/16/2011
WW.124398	2199670	4	9.8	08/16/2011
WW.124399	2199671	4	11.1	08/16/2011
WW.110670	2199672	6	16.6	09/28/2011
WW.124590	2199673	4	17.7	09/24/2011
WW.105536	2199674	4	11.6	08/01/2011
WW.107537	2199675	4	12.3	08/01/2011
WW.107539	2199676	4	10.3	07/27/2011
WW.107542	2199677	5	12.6	07/27/2011
WW.107545	2199678	5	7.9	07/26/2011
WW.111518	2199679	5	10.2	07/26/2011
WW.115575	2199680	5	11.1	08/01/2011
WW.115576	2199681	5	11.5	07/26/2011
WW.119489	2199682	5	11.7	07/27/2011
WW.119491	2199683	5	11.5	07/26/2011
WW.127510	2199684	5	9.5	08/01/2011
WW.127511	2199685	5	13.5	09/29/2011
WW.127514	2199686	5	10.6	07/26/2011
WW.131528	2199687	5	11	07/26/2011
WW.103311	2199688	5	15.5	09/28/2011
WW.107581	2199689	5	15.4	08/23/2011
WW.103314	2199690	5	10.1	08/03/2011
WW.107603	2199691	5	14.6	08/08/2011
WW.107607	2199692	5	13.4	08/04/2011
WW.109634	2199694	5	15.1	09/28/2011
WW.109635	2199695	5	13	08/04/2011
WW.111563	2199696	5	6.2	08/03/2011
WW.113615	2199697	5	8.5	08/03/2011
WW.113641	2199699	5	15.4	08/08/2011
WW.117596	2199700	5	13.1	08/04/2011
WW.123482	2199701	5	9.1	08/03/2011
WW.131561	2199702	5	15.8	08/16/2011
WW.131565	2199703	5	9	08/03/2011

**2011 - Manhole Evaluation and Rehabilitation Project**

<b>Manhole Evaluation and Rehabilitation Project</b>				
<b>CSU Location ID #</b>	<b>Work Order #</b>	<b>Diameter (feet)</b>	<b>Depth (feet)</b>	<b>Date Complete</b>
WW.111610	2199704	5	12.2	08/30/2011
WW.115632	2199705	5	13.6	09/29/2011
WW.119577	2199706	5	13.2	09/30/2011
WW.127574	2199707	5	13.6	10/03/2011
WW.103454	2199708	5	15.1	09/27/2011
WW.113673	2199711	5	13.8	10/05/2011
WW.119583	2199712	5	19	10/03/2011
WW.121548	2199713	5	10.3	09/27/2011
WW.123541	2199714	5	10.6	08/23/2011
WW.125608	2199664	6	13.2	08/23/2011
WW.127613	2199716	4	13.1	09/27/2011
WW.117668	2199717	4	8	08/30/2011
WW.119637	2199718	5	10.2	08/24/2011
WW.127665	2199719	5	12.8	08/17/2011
WW.100864	2199720	4	8.6	10/05/2011
WW.110309	2199721	5	13.2	10/05/2011
WW.107551	2155043	5	16.6	05/25/2011
WW.107552	2155045	5	16	04/21/2011
WW.111525	2155046	5	17	06/01/2011
WW.119498	2155047	5	17.6	05/03/2011
WW.125521	2155048	5	19.9	04/11/2011
WW.127516	2155049	5	12	04/11/2011
WW.127517	2155050	5	19.4	07/15/2011
WW.127518	2155051	5	10.2	07/20/2011
WW.131533	2155052	5	16.8	06/01/2011
WW.131534	2155053	5	10.8	07/20/2011
WW.103305	2155054	5	14	07/18/2011
WW.103324	2155055	5	15	07/18/2011
WW.109611	2155056	5	15	07/18/2011
WW.111565	2155057	5	11.6	07/18/2011
WW.127551	2155058	5	10.7	07/14/2011
WW.129555	2155059	5	13	07/15/2011
WW.101495	2155060	5	13.2	07/20/2011
WW.104619	2155061	5	16.3	07/20/2011
WW.124562	2155062	5	vault	07/31/2011
WW.101563	2155063	5	19	07/22/2011
WW.123492	2155351	5	5	07/12/2011
WW.125554	2155352	6	9	07/08/2011
WW.121281	2155072	5	12.2	07/15/2011
WW.105314	2155071	4	10.2	07/15/2011
WW.113421	2155070	5	13.1	07/15/2011
WW.110914	2155069	4	7.5	04/19/2011
WW.103463	2155068	4	11.8	05/03/2011
WW.123540	2155067	4	12	04/29/2011
WW.102830	2155066	4	7.5	04/19/2011
WW.106144	2155065	4	10.4	07/15/2011
WW.120096	2155064	4	8.3	04/28/2011
WW.121315	2122579	4	9	03/23/2011
WW.102191	2122584	4	9	04/01/2011
WW.105175	2122583	4	9	04/06/2011
WW.129864	2122582	4	9	04/07/2011
WW.129756	2122580	4	9	04/04/2011
WW.119294	2125689	4	9	01/20/2011
WW.107387	2122576	4	9	03/31/2011
WW.119356	2122575	4	9	03/31/2011
WW.125352	2122573	4	9	03/29/2011
WW.127375	2125690	4	9	03/22/2011
WW.105448	2131870	4	9	03/22/2011
<b>Totals</b>				<b>334</b>

Ms. Julie Ann Woods  
Director of Planning and Development  
Pueblo County  
229 West 12<sup>th</sup> Street  
Pueblo, CA 81003-2810

June 29, 2012

**Re: SDS Questions**

Dear Ms. Woods:

Colorado Springs Utilities (CSU), as project manager for the Southern Delivery System (SDS) continues to take all steps necessary to ensure full compliance with all of the 1041 permit terms and conditions. Based on some recent comments and questions that have come to our attention, we are concerned that there may be some misunderstandings as to what is currently taking place relative to both "on-the-ground" SDS activities and compliance with the SDS permit reporting requirements.

In response to the County's concerns over the content of the 2011 Permit Compliance Annual Report (PCAR), CSU has provided you with a copy of our recent correspondence to Ms. Terauds of the Bureau of Reclamation. As noted therein, CSU is engaged in efforts to ensure continued compliance with the stormwater conditions of the permit, will report quarterly on its stormwater related activities, has provided a detailed accounting on monies expended since 2009 on wastewater system improvements, and will cooperate with the Southeastern Colorado Water Conservancy District and the Bureau of Reclamation at such time as they choose to pursue a management plan for Pueblo Reservoir.

In addition, I want to reiterate that you will be a key member of the architectural review team for the Juniper Pump Station in accordance with paragraph 21 of the 1041 permit. The design is currently advancing from a concept drawing to 60% design, and it is my understanding that you recently met with Steve Duling, SDS Project Manager, to discuss actions taken to date and future steps to complete project design. We anticipate that you will be actively engaged in that process. Though some construction associated with the South 1 Pipeline has recently begun to the north of the Pump Station site, no on-site work has commenced on the Pump Station.

*June 29, 2012*

Finally, we want to reiterate that Pueblo West Metropolitan District will not be taking water directly from the North Outlet. Rather, it will receive its water through a yet-to-be-constructed connection located between Pueblo Dam and the Juniper Pump Station. We can further describe the details of the pipeline connections at a future meeting if you so desire. Further, Pueblo West's utilization of the features and facilities of the SDS Project will be constrained as provided under the provisions of the 1041 permit for SDS and the 2010 Settlement Agreement.

Should you have any questions or wish to meet to discuss these issues, please feel free to call me (719-668-8037) or Mark Pifher (719-668-8693) at any time.

Sincerely,

A handwritten signature in blue ink, appearing to read "John A. Fredell", with a stylized flourish at the end.

John A. Fredell  
Program Director  
Southern Delivery System

CC: Ray Petros



Received by Department of  
Planning & Development  
July 3, 2012

Ms. Valda I. Terauds, Special Assistant  
United States Department of Interior  
Bureau of Reclamation – Great Plains Region  
Eastern Colorado Area Office  
11056 West County Road 18E  
Loveland, Colorado 80537-9711

June 29, 2012

**Subject: 2011 Permit Compliance Annual Report for Southern Delivery System (SDS)**

Dear Ms. Terauds:

Colorado Springs Utilities (CSU) is in receipt of a copy of Pueblo County's correspondence to you dated June 19, 2012 regarding the 2011 Permit Compliance Report (PCAR) for the SDS project. We would like to respond to the concerns expressed therein.

First, CSU would note that it takes very seriously all of the County and Reclamation permit/approval conditions related to stormwater control. It is actively engaged in efforts to both complete an updated, regional drainage criteria manual and to advance a long-term, regional solution to stormwater management. CSU has provided to Reclamation separate correspondence on this topic, which it has shared with the County. CSU will continue to keep both Reclamation and the County apprised of local stormwater management initiatives as they progress.

With specific reference to the statement at page 21 of the PCAR, as referenced on page 2 of the County correspondence, SDS acknowledges the need to address stormwater activities under ENF-1 (1)(y) of the Mitigation Appendix to the 1041 permit. However, page 21 of the PCAR refers to the condition found in ENF-1 (2), which concerns reports due "following commencement of water deliveries through the SDS pipeline." ENF-1 (1) is addressed on page 20 of the PCAR, and cross-references the quarterly reports to Pueblo County in which each of the relevant ENF-1 (1) provisions is discussed, including (1)(y). Hence, there may simply exist some confusion on this point.

As regards the \$27.9M spent to date as part of the total \$75M commitment towards wastewater system improvements, the County desired some additional background

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P.O. Box 1103, Mail Code 930  
Colorado Springs, CO 80947-0930

Phone 719.668.4800  
Fax 719.668.8734  
<http://www.csu.org>



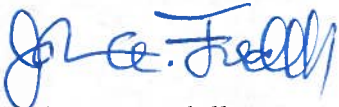
*June 29, 2012*

documentation on these expenditures. However, a detailed list of the 2010 and 2011 wastewater projects was attached as an Appendix to the 2011 PCAR, while the detail on 2009 expenditures was previously forwarded to the County under separate cover. That said, a copy of all three documents is attached to this response.

Finally, with reference to the 1041 permit condition No. 16, there is, in fact, little to report at this time, as neither the Southeastern Colorado Water Conservancy District nor Reclamation have yet pursued a reservoir management plan for Pueblo Reservoir. These two entities have primary jurisdiction over Reservoir operations. Nevertheless, CSU will certainly meet its commitment to cooperatively participate in such plan development once these parties decide to move forward.

Thank you for your attention to these matters.

Sincerely,



John A. Fredell  
Program Director  
Southern Delivery System

CC: Julie Ann Woods





Colorado Springs Utilities

*It's how we're all connected*

Received by Department of  
Planning & Development  
July 3, 2012

Mike Collins, Area Manager  
Bureau of Reclamation  
Eastern Colorado Area Office  
11056 West County Road 18E  
Loveland CO 80537-9711

June 29, 2012

**Re: Stormwater Controls**

Dear Mr. Collins:

The Southern Delivery System (SDS) participants are aware of the fact that there have been concerns expressed over the dissolution of the Colorado Springs Stormwater Enterprise and the potential effect of that action on future compliance with the provisions of the SDS Record of Decision (ROD) and the Pueblo County 1041 permit. Let me assure you that Colorado Springs Utilities (CSU) and its SDS partners take this matter very seriously, as does the Colorado Springs Municipal Government. We are taking concrete steps to ensure continued compliance with all applicable requirements.

CSU has already spent, or committed to spend, tens of millions of dollars on wetlands restoration, riparian corridor rehabilitation and enhancement, stormwater control infrastructure, and Fountain Creek corridor protection. This includes a pledge of \$50M under the County 1041 permit to downstream Fountain Creek mitigation projects, including those for flood and sediment control. In addition, it is assisting the Municipal Government in finalizing an update to the City drainage criteria manual. The expectation is that the updated manual will be adopted not only by Colorado Springs, but by other governmental entities within the region that have stormwater control responsibilities. The manual will enhance existing regulatory requirements, incorporating best management practices such as low impact development (LID). This will specifically assist in ensuring that future stormwater flows are controlled in accordance with permit requirements.

CSU has also contributed funds to the development of a report by Summit Economics, the final version of which was formally released last week. A copy is attached hereto. The report examines a range of regional, sustainable stormwater funding options.

121 South Tejon Street, Third Floor  
P.O. Box 1103, Mail Code 930  
Colorado Springs, CO 80947-0930

Phone 719.668.4800  
Fax 719.668.8734  
<http://www.csu.org>

*June 29, 2012*

Summit has been making presentations on the report findings to a number of entities, including the Fountain Creek Watershed District and, most recently, El Paso County. The Colorado Springs City Council was to hear the Summit presentation on June 25, though that meeting has been delayed for a couple of weeks due to time commitments necessary to respond to the Waldo Canyon fire. CSU and other regional interests, including El Paso County, will address City Council as part of the presentation, with the County asking the City to join in the formation of a regional Work Group. It is anticipated that the Work Group will commence a broad based community dialogue in an effort to identify the most efficient and cost effective regional solution.

CSU will be actively participating in all of the above efforts, recognizing that the implementation of identified solutions will necessitate cooperation and coordination on the part of many potentially impacted parties. It goes without saying that the SDS participants will take whatever steps are necessary to continue to meet our Environmental Commitments set forth in the ROD and the terms and conditions of the 1041 permit.

Should you wish to meet to discuss this topic, please do not hesitate to contact me at 719-668-8037.

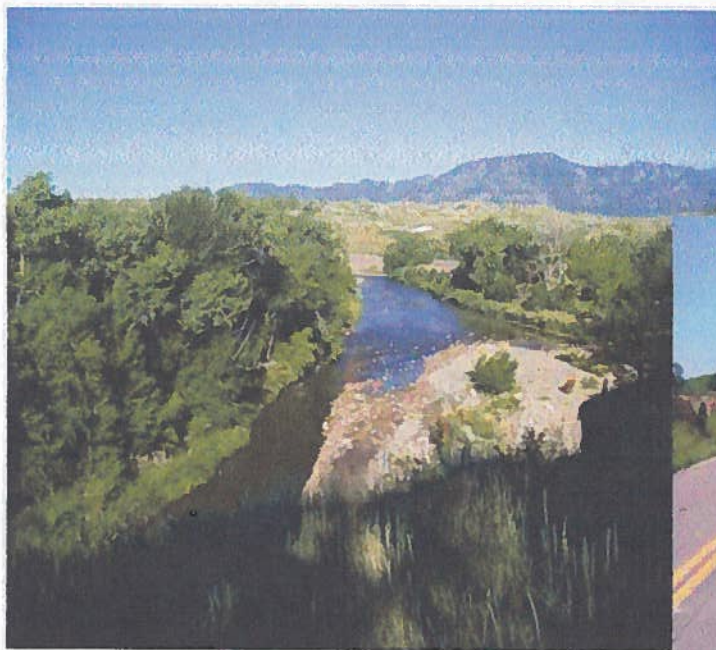
Sincerely,



John A. Fredell  
Program Director  
Southern Delivery System

Attachment: Summit Economics Report

CC: Julie Ann Woods



SUMMIT  
ECONOMICS  
LLC

## WHITE PAPER EXPLORING POTENTIAL SOLUTIONS TO REGIONAL STORMWATER CHALLENGES

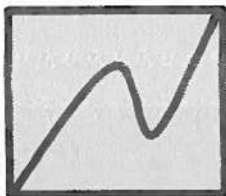
**Prepared for**  
**Fountain Creek Watershed Flood Control and Greenway District,**  
**Colorado Springs Utilities, El Paso County,**  
**Pikes Peak Regional Water Authority**

**By:**  
**Mike Anderson, Senior Partner**  
**Tom Binnings, Senior Partner**  
**Paul Rochette, Senior Partner**

**June, 2012**

# Summit Economics, LLC

*Peer into the future before it becomes the present*



*Applied Economics*

**Tucker Hart Adams**

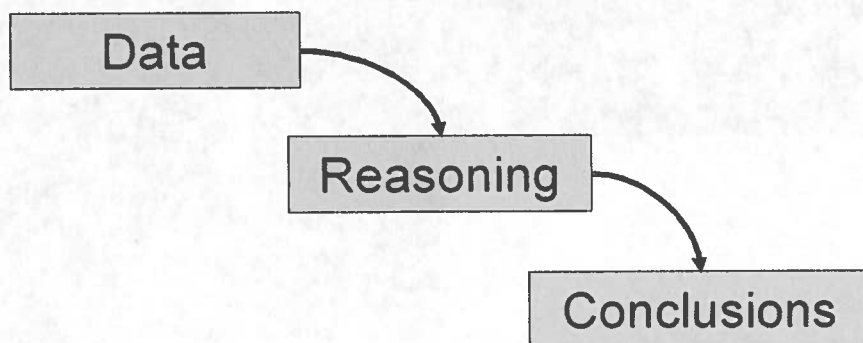
**Mike Anderson**

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**[www.summiteconomics.com](http://www.summiteconomics.com)**



- Empirical Research
- Computer Modeling
- Rigorous Analysis

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## **EXECUTIVE SUMMARY**

### **Introduction**

This white paper considers stormwater challenges and opportunities facing the Fountain Creek Watershed (FCW). The study is sponsored by the Fountain Creek Flood Control and Recreation District (FCWD) and is funded by several local governments and utilities including: El Paso County, the Pikes Peak Regional Water Authority, and Colorado Springs Utilities.

The purpose of the white paper is to 1) elaborate on the challenges and opportunities related to stormwater needs of the FCW, 2) propose alternative funding and organizational mechanisms for addressing stormwater needs, and 3) recommend a process for the FCW community to move forward in addressing the challenges and opportunities.

The methodology used in researching the issue and potential solutions included both primary and secondary research over the course of a year. Technical and citizen advisory groups to the FCWD were consulted as were over 20 community leaders, both elected and non-elected, and subject matter experts. Extensive literature was reviewed from national sources to determine how other U.S. and Colorado communities have approached the stormwater challenge.

### **Definitions**

A watershed encompasses all land and waterways such as streams, creeks, rivers and lakes that drain into a common water source. Stormwater is rain or snow that falls onto surfaces and flows either directly into natural waterways, or through drainage systems such as curbs, gutters, and inlets into storm sewers, detention ponds and channels – eventually discharging into waterways. In El Paso County, all municipalities, with the exception of some towns in its eastern areas, drain stormwater into the Fountain Creek Watershed (FCW). In Pueblo County, stormwater along the mostly undeveloped I-25 corridor and the northern portion of the City of Pueblo also drain into the FCW.

Stormwater and its effects can be a liability to communities. It can cause flooding and erosion, and therefore can threaten public safety and property. Stormwater can alter and threaten natural ecosystems and, over time, can transport pollutants. The population growth and urbanization of the FCW have intensified these negative effects of stormwater over the past century. But stormwater can also be an asset to communities. It is water, after all, which is the basic necessity of life and human civilization. A healthy watershed can also serve as a preserve of nature and as a recreational asset.

### **The Funding Problem**

Although the establishment and use of stormwater utilities has increased dramatically over the last fifteen years, growing by over two-thirds to a total of 500 utilities, the most prevalent source of stormwater management funding by local governments throughout the U.S. continues to be through the appropriation of general tax revenues. Without a dedicated funding source, stormwater services and projects have historically struggled to compete effectively against other, often higher-profile and better understood local govern-

ment services during budgeting. Once stormwater flows from neighborhood streets it is typically out of sight and out of mind. This lack of awareness results in a lack of vocal constituencies and stormwater being out of mind when annual budgets are drafted. In the FCWD, the City of Pueblo and the City of Manitou Springs have separate dedicated revenue sources (enterprises) for the funding of stormwater management services and projects, while the City of Fountain, the City of Colorado Springs, the Town of Monument, El Paso County, and Pueblo County rely on the appropriation of general tax revenues.

The FCW has accumulated a backlog of unfunded stormwater management needs partially because of inadequate appropriation of general tax revenues by municipalities and counties. A portion of the backlog also stems from the cumulative effect of a number of other trends and factors that generally go unnoticed like aging infrastructure, annexations of developed areas having inadequate/deficient drainage systems, and increased stormwater management requirements resulting from EPA regulations.

### **The Fundamental Problem**

Stormwater is underfunded and under-valued due to a lack of awareness of the opportunities, consequences, and obligations associated with managing stormwater in the Fountain Creek Watershed which are fivefold:

1. **The Opportunity** to create a unique regional recreation asset
2. **The Consequence** of not protecting capital assets placed in watershed corridors from relatively minor flood events
3. **The Obligation** to protect the health, safety and property of residents
4. **The Obligation** of the Watershed Ethic – the Golden Rule
5. **The Obligation** to continuously meet federal, state, and local requirements, including 1041 Permit commitments

### **New Paradigms and Funding Approaches**

In many communities where stormwater management has been implemented, the protection of recreation assets and/or the impact of major flood events are often driving factors. Converting Fountain Creek and its tributaries into a regional recreational asset could sustain a long-term elevated awareness of the important role the region's waterways could play in the community's quality of life. Such a rebranding of the waterways could generate an appreciative attitude to preserve and maintain the watershed as a recreation asset.

In the spirit of the new paradigm which looks at stormwater management as a potential community asset and an unfunded liability, new funding approaches are also more possible. Both broader private-sector participation and cost sharing with other public programs are emerging trends in stormwater management funding. Most successful stormwater programs are supported by a blended source of funds, and many are supported by multi-jurisdictional funding.

### **Considerations in Developing Funding Options**

In developing possible solutions to the FCW stormwater funding problem, it is important to identify and estimate the funding needs throughout the watershed. It is also critical to assess the community's willingness to pay to control stormwater runoff, and in particular how much, to whom, and through what funding mechanisms. The two other major considerations are a review of all possible funding mechanisms, and a review of existing and potential organizational structures to provide stormwater services and projects.

## **The Backlog of Unfunded Stormwater Needs**

According to information provided by the FCWD and the cities and counties within it, the FCW has an estimated total of \$834.3 M of unfunded infrastructure replacement and capital improvement needs. Furthermore, the FCW has an estimated \$12.8 M of unfunded annual needs. Construction cost estimates are always imperfect, but these figures represent the best information currently available and are a good starting point for consideration.

## **Value Proposition – Tolerable Funding Levels**

As governments serve and represent their electorate, a comparison of the amount of resources Front Range local governments allocate to stormwater management is one measure of a community's willingness to pay for stormwater management. In the ten largest Front Range municipalities, the average annual 2011 per capita funding for stormwater needs was \$52.11, though it was \$4.63 for Colorado Springs and \$25.81 for Pueblo. Such stormwater funding data is not available for Colorado counties, though one study reported the annual per capita funding as \$4.04 in 2007 for El Paso County. Another benchmark is the former Colorado Springs Stormwater Enterprise (SWENT), which generated in 2009 annual per capita funding of \$36.11. A third benchmark is derived from the average residential bill for 17 of the different stormwater enterprises in Colorado, which reports in 2006 average per capita funding of \$52.17.

To achieve these ranges of per capita funding in El Paso County an equivalent mill levy of about 3.6 to 5.8 mills would be required, or an equivalent sales tax of about 0.3% to 0.5%. Likewise, they would raise in El Paso County total annual revenue of about \$22 M to \$36 M. These are rough estimates meant to illustrate potential funding levels. The total backlog of unfunded stormwater needs in FCW is itself a daunting figure, but this estimated range of tolerable annual funding levels illustrates that the backlog can very well be addressed over the course of 20 to 30 years.

## **Funding Mechanisms**

Many mechanisms for raising funds or cost-avoidance for the FCW stormwater funding needs are available for consideration. A total of 17 primary, secondary, and "outside the box" funding mechanisms for raising revenue or cost avoidance should be considered:

Primary: general revenue appropriations; property taxes; sales and use taxes; stormwater user (service) fees; bonding for capital improvements

Secondary: special assessment/fees on water and wastewater utilities; system development charges (capitalization recovery fees); special assessment districts; in-lieu of construction fees; impact fees; federal and state funding opportunities (grants, loans); recreation user fees

"Outside the box": environmental tax shifting ("pay-to-pave" tax or fee); market-based approach ("cap and trade" system); development incentives for low-impact development; tax credits/rebates and installation financing; awards and recognition programs.



The 17 funding mechanisms were rated against these standards: political acceptance, equitability, feasibility, difficulty to administer, legal defensibility, ability to raise sufficient funds, and if it is a dedicated or competitive source. Taking only those funding mechanisms which rated well across the criteria *and* would have the capacity and potential to generate a substantial revenue stream to address the backlog, these four funding mechanisms remain: *property tax, sales tax, general revenue appropriations, and stormwater fees.*

This evaluation of course does not preclude any single or hybrid package of funding mechanisms from actually being achieved. For example, a package of funding mechanisms with high political acceptance but low funding impact could build momentum for these mechanisms that generate substantial revenue. Another possibility would be the initial use of certain funding mechanisms with the phased implementation of additional mechanisms over time.

### **Organizational Structures**

Many existing or potential organizational structures can implement and administer the stormwater funding source(s) within the FCW. The identification and selection of the best organizational structure are a critical piece of any solution. Federal and State requirements and regulations place the responsibility of providing stormwater management services on local governments. 73 different types of local government entities are allowable under the Colorado constitution and statutes, and 9 are authorized to provide some or all of the elements of a fully functioning stormwater management system. Of these 9, and excluding metropolitan districts, drainage districts, conservancy districts, and special improvement districts because of inapplicability to the diverse land uses of the FCW or exceptional impracticality, the 5 existing or potential organizational structures are: municipalities, counties, regional service authority, urban drainage and flood control district, and regional stormwater authority. Accepting responsibility to adequately fund stormwater management creates a cost to be borne by the community in one fashion or another whether it be higher taxes, fees, or the opportunity cost of receiving fewer or lower quality alternative public services.

Utilizing the municipal structural approach would, in essence, be a continuation of the status quo. However, the City of Colorado Springs can relocate the management, operation and revenue raising responsibilities for stormwater management to Colorado Springs Utilities (CSU). CSU has tremendous organizational capacity to accept the operational aspects of stormwater management and would likely be able to provide services at a lower marginal cost given the economies of scale and existing technical capabilities it already has in place. Yet, the establishment of a new stormwater utility fee added to CSU customers' monthly utility bill and/or an increase in existing water or wastewater rates will likely be required under such a scenario. Existing covenants on CSU's revenue bonds and requirements of the City Charter appear to create a legal need to establish such rates. However, any new stormwater fee or utility rate increases to recover the costs of making an additional contribution to stormwater management would likely be viewed by ratepayers as a "back door" tax.

Since the FCW encompasses El Paso and Pueblo Counties, they could both assume a larger role in the funding of stormwater management in their respective county. A regional service authority is an alternative to counties, though the process for creating one is quite complex and cumbersome. The existing FCWD is an Urban Drainage and Flood Control District, and the FCWD could assume a role in its watershed that is similar to the role the Urban Drainage and Flood Control District fulfills in the Denver metropolitan area. The FCWD would actually be fulfilling the role envisioned in its enabling legislation. A regional stormwater authority can be

created under a regional intergovernmental agreement (IGA), amongst some or all local governments in the FCW. It could act as a sort of regional stormwater enterprise.

### Three Funding Scenarios for Consideration

Three funding scenarios thus emerge which address the FCW in a regional manner, which address the backlog of unfunded needs with sufficient revenues, and would be frameworks to address the issue *with* the consent, assent, and support of the electorate:



Any mill levy or sales and use tax will require direct voter approval. Any IGA will require the coordination and approval of numerous elected officials representing the citizens of the FCW region. This is a challenge, and an opportunity to engage the public in reframing the FCW as a regional asset.

### Pursuing the Public Process Challenge and Goal

Inaction is the loss of self-determination. The consequences of inaction regarding stormwater funding in the FCW may include regulatory enforcement, litigation, further deterioration of public infrastructure and the natural environment, continued risks to property and public safety, and the continued opportunity loss of potential recreational assets. These consequences of inaction, should inaction prevail, may result in unnecessary conflict between citizens, between interest groups, and between communities.

The public process goal is to achieve strong support of the FCW residents and organizations in order to adequately fund capital investment, repairs, maintenance, and administration of the watershed. In order to motivate the FCW community to act, they must perceive value in stormwater management and its potential to be a local and regional asset. Generally, if perceptions change, attitude adjustments follow along with value associations. This requires the solicitation of constituents at all levels of support and confronting people's mental models of stormwater and watersheds, which are likely to be only moderately developed as opposed to ingrained and intractable.

### Public Process Lessons and Strategy

Numerous natural constituents do or potentially could support and, to varying extents, understand stormwater management in the FCW. Anyone who bears the cost of stormwater damage is a natural constituent. Developers and the business community should understand the economic development consequences of not living up to the 1041 permit. Those who support nature and recreation are potential constituents, as are those who just simply believe addressing the stormwater funding challenge "is the right thing to do."

Past voter approved taxes in El Paso County and Colorado Springs, like TOPS, SCIP, PSST, and PPRTA, all went through an extensive citizen-led dialogue, education and deliberation process before going to ballot. They

had strong support from a wide spectrum of the business community, and they had champions for the cause. They communicated, and the electorate understood, how the money was going to be used.

All governmental jurisdictions of El Paso County need to commence a public process to organize and identify private sector champions. Additional marketing research needs to assess the community's actual perceptions and attitudes. An integrated Capital Improvement Plan needs to address stormwater from whole system, best practices, and life cycle perspectives. An aggressive education process needs to occur where the community actually experiences the waterways.

While the temptation is to simply solve the immediate problem as expeditiously as possible, slowing down the tempo of action in order to plan and to get broad public understanding is likely to lead to a much more sustainable solution given the political culture of much of the watershed. This may require buying time through a strong showing of good faith. The best demonstration of intent is through incremental steps, transparent processes, and collaborative deliberation.

### **A Call to Action**

While El Paso County and Colorado Springs clearly have a unique political culture, to conclude the community would never support the little known watershed nor the challenges and obligations presented by stormwater runoff, is erroneous. The 2009 passage of Proposition 300 in itself does not support such a conclusion. One way or another the watershed ethic will prevail – either through collaborative, shared efforts or through *force majeure* where an external force exerts itself on the community. There are numerous viable options on the table to create reliable revenue streams to preserve and enhance the FCW through stormwater management and investment. The leadership exists to champion the cause. Embrace the political culture of the region, and focus on the 75% of the active voters and 85% of all potential voters who will at least consider the prospect of watershed preservation and enhancement.

Perhaps the most crucial element in pursuing the challenge is reminding ourselves of the watershed ethic whereby upstream and downstream stakeholders respect one another's private and common interests associated with the watershed and accept the responsibilities of such an ethic. With such respect comes collaboration and the ability to engage in self-determination of watershed governance.

## PREAMBLE

When private or community interests access a public resource for which there is no single ownership control or responsibility, a tragedy of the commons often ensues. This is especially true when there is high demand for the public or common resource such as parks or fisheries and funding levels are inadequate to maintain the common property. The creeks, rivers, and lakes of watersheds represent the commons utilized by many private interests and communities. As urban areas have grown dramatically over the last century, the threat to the commons has intensified.

The threat to the commons can be mitigated at a relatively low price. If ignored, the price tag grows and the threat will ultimately manifest into a tragedy. In the case of waterways, the tragedy can include unnecessary loss of life, property, and ecosystems. Downstream interests often bear a disproportionate share of the cost under such circumstances.

As a result of this challenge, a watershed ethic is evolving concurrently with emerging conflicts among stakeholders who use the commons. The ethic mimics the golden rule. Perhaps the greatest tragedy of the commons from ignoring the watershed ethic is the resulting social mistrust, manifest conflict, and reliance upon courts, legislators, and regulators to arbitrate and enforce the ethic. Surely in the long-run this is a more costly approach than community collaboration, deliberation, and acceptance of responsibility. More civil and collaborative approaches to challenges might even find great opportunities emerge that go beyond simply abiding by the ethic.

This is where the Fountain Creek Watershed community stands today.

*Summit Economics, LLC, May, 2012*

## **INTRODUCTION**

This white paper considers stormwater challenges and opportunities facing the Fountain Creek Watershed (FCW). The study is sponsored by the Fountain Creek Watershed Flood Control and Greenway District (FCWD) and is funded by several local governments and utilities including: El Paso County, the Pikes Peak Regional Water Authority (PPRWA), and Colorado Springs Utilities.

The purpose of the white paper is to 1) elaborate on the challenges and opportunities surrounding stormwater in the FCW, 2) propose alternative funding and organizational mechanisms for addressing stormwater needs, and 3) recommend a process for the FCW community to move forward in addressing the challenges and opportunities.

The white paper is primarily an economic report on the facts surrounding stormwater and the Fountain Creek Watershed. It endeavors to highlight all possible funding and organizational alternatives to more effectively and sustainably address watershed challenges. We sought input from many leaders and technical experts throughout the watershed. The white paper concludes with a recommended public process based upon Summit Economics':

- Research of successful efforts to develop stormwater initiatives nationwide and statewide;
- Expertise in strategic analysis, marketing research, and process design;
- Long-term knowledge of the political-economic cultures of all the Fountain Creek Watershed communities.

Summit Economics, LLC represents this white paper to be an objective recitation of facts and independent analysis, conclusions, and recommendations. As residents of the watershed, Summit's Partners hope this document will further deliberation among the stakeholders for the entire FCW to meet the challenges.

### **The Watershed & Stormwater**

A watershed encompasses all land and waterways such as streams, creeks, rivers and lakes that drain into a common water source – Fountain Creek in this case. Technically a watershed can be as small as a single drainage basin such as Cottonwood Creek or as large as an entire river system such as the Arkansas River. The relevant definition is determined by the political, economic and geographic area for which a study is targeted.

Stormwater is rain or snow that falls onto surfaces and flows either directly into natural waterways, or through drainage systems such as curbs, gutters, and inlets into storm sewers, detention ponds and channels -- eventually discharging into waterways. The hydrology, or water flow, of a watershed is dictated by its soils and amount and timing of precipitation. Erosion is the most common outcome in nature and is typically accelerated when watersheds are urbanized due to storm system design to transport stormwater expeditiously out of neighborhoods and into natural waterways. Over long periods of time riparian ecosystem equi-



libriums develop within watersheds partially as a result of the area's hydrology. Because urban stormwater is untreated, it creates potential challenges to riparian ecosystems in addition to increasing erosion.

With some exceptions, stormwater impacts from human settlement have only become a significant issue in the last century. Substantial population growth, greater urban densities, greater development of impervious surfaces within cities to accommodate advances in transportation technologies, and dedicated, separate stormwater sewer systems combined to dramatically increase the amount of stormwater flow into waterways within watersheds. In a more natural state, stormwater was more readily absorbed into soils and found underground reservoirs or channels and then trickled into streams, rivers, and lakes at much slower rates. Now, the vast majority of the stormwater quickly deposits into the waterways. Storm events in urbanized areas, even relatively minor events, can overwhelm the watershed. Major storm events, by pre-urban standards, have heightened effects. The combination of faster runoff and greater watershed volumes significantly increase risk to life and property.



FOUNTAIN CREEK WATERSHED, EL PASO AND PUEBLO COUNTIES

### **Fountain Creek Watershed**

As shown in the adjacent map, all municipalities in El Paso County deposit stormwater into the Fountain Creek Watershed; with the exception of towns in the eastern areas of the County. The watershed also serves all of the military installations in the County.

From the City of Fountain to the incorporated area of Pueblo, the watershed is largely undeveloped. However, it's anticipated that Pueblo will generally grow north along the I-25 corridor in the coming decades and thus stormwater runoff in Pueblo County will increasingly become an issue as well.

The FCW is evolving towards a new hydrographic and ecosystem equilibrium as the old natural equilibrium has increasingly been disrupted. As stated in the "General Information" section of the FCWD's webpage, current conditions, concerns, and factors impacting the watershed include:

- *Flooding and erosion have accelerated the loss of aquatic and wetland habitats, contributed to the loss of hundreds of acres of productive farmland, and caused the foundations of roads and homes to crumble.*

- *Creeks within the Fountain Creek Watershed contribute about 15% of the drinking water for Colorado Springs and are a source of irrigation for over 100 farms and ranches.*
- *85% of Colorado Springs' water is pumped from west of the Continental Divide, and after use, this water is treated and discharged into Fountain Creek.*
- *Over 90% of Pueblo's 100-year floodplain is developed and includes residential, commercial, industrial and public properties.*
- *Parts of Pueblo's downtown business district lie directly within the historic floodplain of Fountain Creek.*
- *Pueblo's flooding history includes devastating floods in 1921, 1935 and 1965.*
- *The mean annual flow of Fountain Creek has risen from a historical average of approximately 60 cubic feet per second (cfs) to greater than 230 cfs.*
- *While flow associated with extreme flood events has not statistically changed, there are increasing trends in both low and high streamflow records.<sup>1</sup>*

One unique aspect to the Fountain Creek watershed is that the solution is not as easy as reusing water from the creek or capturing stormwater in rain barrels, cisterns, or even small reservoirs to take the flow rates back to more natural conditions before urbanization occurred. Stormwater discharge into the creek is complicated by western United States' water law based upon the doctrine of prior appropriation. Because water has flowed down the creek historically, downstream farmers and ranchers in the lower Arkansas River Valley have prior claims to the actual stormwater and El Paso County residents are not entitled to capture it to use for lawn irrigation – an action that could help mitigate stormwater runoff. To complicate matters even more, the increased creek flows, while detrimental in some ways to the watershed, have also altered the agricultural economy below the confluence of the Arkansas River and Fountain Creek by providing more water to junior water rights owners who previously could access water only in wet years. This positive consequence of greater water flows creates a predicament where future curtailment of flow would hinder the economy of agricultural households and businesses that have come to rely on the greater flows. A symbiotic relationship of sorts has emerged between the agricultural community and the development of El Paso County whereby junior rights gain water and senior right can enter into water exchanges with Colorado Springs Utilities gaining better management of the timing of their water flows.

### **Symptoms of the Funding Problem**

Although the establishment and use of stormwater utilities has increased dramatically over the last fifteen years (growing by over two-thirds to a total of 500 utilities) the most prevalent source of stormwater management funding by local governments throughout the U.S. continues to be through the appropriation of general tax revenues. That is also the case for a majority of the municipalities and counties within the Fountain Creek Watershed. Of the seven municipalities and counties having Municipal separate Storm Sewer systems (MS4s) within the watershed area, only the City of Pueblo and the City of Manitou Springs have separate dedicated revenue sources (enterprises) for the funding of stormwater management services and projects.

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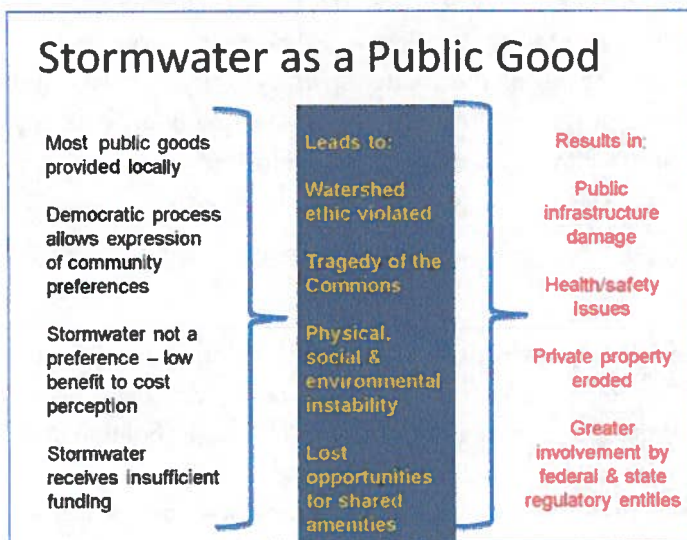
<sup>1</sup> <http://www.fountain-crk.org/general-information.html>

\*

## CURRENT SOURCES OF FUNDING FOR STORMWATER MANAGEMENT

	City of Colo Sprgs	El Paso County	City of Fountain	City of Manitou Springs	Town of Monument	City of Pueblo	Pueblo County
NPDES permit program	Gen fund/Ent	Gen Fund	Gen Fund	Enterprise	Gen Fund	Enterprise	Gen Fund
Maint of existing storm sewer/flood control facilities	Gen fund	Road & Bridge	Gen fund	Enterprise	Gen Fund/Impact Fee Fund	Enterprise	Road & Bridge
Repair and replacement of existing storm sewer/flood control facilities	none	none	none	Enterprise	Gen Fund/Impact Fee Fund	Enterprise	Road & Bridge
Drainage and flood control regulations	Gen fund/Ent	Gen fund	Gen fund	Enterprise	Gen fund	Enterprise	Gen Fund
Regional flood control facilities (constr & maint)	none	none	none	none	none	none	none
Const of new storm sewer/flood control facilities for new development	Developer & Basin Fee	Developer & Basin Fee	Developer & Basin Fee	Developer	Developer & Impact Fee	Developer	Developer

This heavy reliance on the appropriation of general tax revenues to fund stormwater management has been problematic as depicted in the following cause and effect diagram.



As evidenced by a burgeoning backlog of necessary stormwater and flood control needs in the FCW, stormwater management has historically struggled to compete effectively against other local government service needs. Once the stormwater flows from neighborhood streets it is typically out of sight AND out of mind. The lack of awareness creates a lack of vocal constituencies and therefore is typically out of mind when annual budgets are drafted as it competes against other more visible and higher profile basic government services (police, fire, parks, and roadway maintenance).

These problems exist on a national basis. Proper stormwater spending and management by communities was uncommon and is only recently being addressed in many cases around the nation. The lack of overall preference placed on stormwater funding leads to the emergence of numerous problems and lost opportunities as shown in the dark middle box and presented in the Preamble of this white paper. The results (shown in the right hand column) are unavoidable over time given underfunding.



The backlog of stormwater management needs in the Fountain Creek Watershed as a result of several decades of underfunding is considerable and growing. As more fully described later in this paper, the magnitude of the funding needs appear to be daunting at \$834 million for infrastructure projects and ongoing annual maintenance, repair and planning needs at almost \$13 million.

Nevertheless, the growing backlog of unfunded stormwater management needs in the Fountain Creek Watershed is not solely due to the inadequate appropriation of general tax revenues by municipalities and counties. A portion of the funding problem stems from the cumulative effect of a number of other trends and factors that generally go unnoticed. Those factors and untimely trends include:

- Increased stormwater management requirements resulting from EPA stormwater regulations
- Annexations of developed areas having inadequate/deficient drainage systems
- Life-cycle replacement
- Out-dated drainage basin fee systems for drainage infrastructure supporting new development
- Existing infrastructure designed many years ago without benefit of modern engineering techniques

For a more detailed description of these trends see Appendix A.

### **Need for Additional Funding Sources for Stormwater Management**

In all likelihood, general revenue appropriations, at some level, will continue to be a part of the funding of stormwater management in the region. It is assumed that all local governments in the Fountain Creek Watershed will continue to seek additional efficiencies in their operations that will allow some reallocation of existing resources towards stormwater management. Also, it is hoped that those governmental entities will have the fiscal discipline to earmark for stormwater management at least a share of any future incremental revenues. But, given the magnitude of the backlog of stormwater management funding needs in the Watershed, it appears the costs that will have to be incurred by local governments far exceed their capacity to absorb into existing budgets. Addressing an estimated backlog of over \$834 million of stormwater infrastructure replacement and maintenance projects through general revenue appropriations, while responding to ever increasing federal and state stormwater requirements, would require a massive restructuring of existing municipal and county budgets. Those budgets, however, are already stretched razor thin by the longest and deepest economic downturn since the Great Depression.

Based on the overall conditions in the FCW, both physical and fiscal, it is necessary to look at various alternative funding mechanisms for stormwater and select the best approach given the political, fiscal, and economic circumstances within the Watershed. A combination of new funding sources and the continued use general revenue appropriations will be required to reliably generate the required level of revenue and resources for a fully functioning stormwater system throughout the Watershed.

## **The Fundamental Challenge**

Why does stormwater end up with such a low community preference?

Stormwater is underfunded and under-valued due to a lack of awareness of the opportunities, consequences, and obligations associated with stormwater management in the Fountain Creek Watershed which are five-fold:

1. **The Opportunity** to create a unique regional recreation asset
2. **The Consequence** of not protecting capital assets placed in watershed corridors from relatively minor flood events
3. **The Obligation** to protect the health, safety and property of residents
4. **The Obligation** of the Watershed Ethic
5. **The Obligation** to continuously meet federal, state, and local requirements, including 1041 Permit commitments

While most of these five aspects are fairly obvious, the opportunity to create a unique regional asset is an emerging vision worthy of elaboration. Converting the Fountain Creek and its tributaries into a regional recreational asset could sustain a long-term elevated awareness of the important role the region's waterways could play in the community's quality of life. Such a rebranding of the waterways could generate an appreciative attitude to preserve and maintain the watershed as a recreation asset. In many communities where stormwater management has been fully funded and implemented, the protection of recreation assets is a driving factor.

## **New Paradigms and Funding Approaches**

The current stormwater funding challenges in the Fountain Creek Watershed offer a moment of opportunity to be seized by considering funding approaches that are more in alignment with a new paradigm in stormwater management that has emerged in many parts of the nation.

In its *Guidance for Municipal Stormwater Funding*, the National Association of Flood and Stormwater Management Agencies (NAFSMA) succinctly describes that new paradigm:

*Originally stormwater systems were built just for conveyance, but stormwater is now a component of a comprehensive integrated urban water resource, environmental enhancement, and recreation services system. Contemporary stormwater management is a multi-dimensional function which includes quantity and quality considerations, multiple-use facilities, riparian corridors, recreation, wetland preservation and creation, and groundwater discharge.*

This new paradigm will require different approaches to funding a fully functioning stormwater management system. NAFSMA identifies four growing trends in funding practices toward:

- **Blended Funding** - The most successful stormwater programs are supported by several sources of funding including general appropriations, utility service fees, dedicated taxes, system development charges, Federal and state grants/loans, bonding.
- **Multi-jurisdictional funding** – Stormwater runoff doesn't conform to municipal or other jurisdictional boundaries. Solving upstream and downstream problems often requires the funding of a common solution among various jurisdictions.
- **Cost-sharing with other Public Programs** – Scarce dollars available for stormwater are being increasingly leveraged by local governments through a natural broadening of the scope of stormwater management to include parks, greenways and trails along creeks as well as environmental protection and habitat preservation.
- **Broader Private-Sector Participation** – The private sector already contributes heavily towards the construction and maintenance of local drainage and flood control systems throughout the U.S. The trend of private-sector participation has expanded to include cooperative arrangements between public entities and the private-sector in which stormwater infrastructure and requirements are being integrated with other private sector objectives including: greenway corridors, golf courses, ballfields, and riverwalks. Cooperative arrangements with developers and other private-sector entities that allow for the operation and maintenance of stormwater facilities are also becoming increasingly common in other communities.

Any solutions to the massive stormwater funding needs within the Fountain Creek Watershed will have to embrace these new practices. It is doubtful there is a singular source of funding of the magnitude necessary to address all the funding needs while also being at a rate of tax or fee that can be tolerated by taxpayers and/or ratepayers within the region. Additionally, the heightened scarcity of resources will require the additional efficiencies offered by multi-jurisdictional cooperation, cost-sharing with other programs/services and broader public-private cooperation.

Many elected officials within the watershed have long discussed the need for a regional solution for stormwater management. The benefits of a regional approach are several:

- ✓ Ensures the watershed ethic is followed with no 'free-riders'
- ✓ Achieves economies of scale in the provision of stormwater services
- ✓ Pursues a comprehensive approach to stormwater system design which promotes efficiency and effectiveness
- ✓ Contributes to regional cooperation

Yet, a regional approach will require intergovernmental cooperation and the relinquishment of some local control by existing governmental entities. Though most important, a regional approach will require dedicated revenue streams. Annual appropriations by member governmental entities, as evidenced by past experience, are not a reliable funding source.

A significant step in the direction towards regionalization was the formation of the FCWD in 2009 whose mission is to turn the Fountain Creek watershed into a regional asset by working to create a healthy waterway with appropriate erosion, sedimentation, and flooding that supports diverse economic, environmental, and recreational interests. The FCWD has begun to provide stormwater and flood control services through its various successful demonstration projects in Fountain Creek. As a regional district, however, the FCWD has broad powers and authority to serve a larger role in providing stormwater runoff and flood control services on a regional basis.

## **CONSIDERATIONS IN DEVELOPING ALTERNATIVES**

In considering the different options for funding stormwater management in the FCW, estimated funding needs were compared with the community's willingness to pay. Data related to funding needs were collected

### **Considerations in Developing Funding Options**



for each of the seven municipalities and counties having Municipal Separate Storm Sewer systems (MS4s) within the watershed area. Funding needs of the FCWD were also examined. This process involved review and analysis of annual budget documents, multi-year capital improvement plans, and previous studies/analyses. Interviews with stormwater management employees of some local governmental entities were also necessary.

Willingness to pay was estimated from a variety of sources including what Colo-

rado Springs residents paid under the City of Colorado Springs' Stormwater Enterprise (SWENT) that was shut down in 2010. Amounts paid for stormwater management in other Colorado Front Range communities as well as average amounts paid through separate stormwater enterprises throughout the state and nation were also used as rough benchmarks of acceptable taxpayer/ratepayer burdens.

The other two major considerations in developing funding options included a review of all possible funding mechanisms that might apply in this case as well as a review of alternative organizational structures used to deliver stormwater services and projects. Both of these efforts involved extensive literature reviews and interviews.

### **The Backlog of Unfunded Stormwater Needs**

In an attempt to quantify the extent and magnitude of the stormwater funding problem in the Fountain Creek Watershed, estimates of unfunded stormwater management needs were collected for each of the seven municipalities and counties having Municipal Separate Storm Sewer systems (MS4s) within the watershed area. Funding needs of the FCW were also examined. A summary of the funding needs is presented in the table below.

SUMMARY OF UNFUNDED STORMWATER MANAGEMENT NEEDS			
Entity	Population (in 000s)	Estimated Unfunded Needs (\$M)	
		Infrastructure Replacement and Capital Improvements	Annual Ongoing Needs
<b>El Paso County</b>	<b>627</b>		
Colorado Springs	419	\$498.2 1/	\$6.0 2/
Unincorporated EPC	167	\$47.5 3/	\$1.7
Fountain	26	\$50.0	\$0.3
Monument	6	\$3.8	\$0.0
Manitou Springs	5	\$3.6	\$0.0
<b>Pueblo County</b>	<b>159</b>		
City of Pueblo	107	\$85.1 4/	\$0.0
Unincorporated Pueblo County	52	undetermined	undetermined
<b>Fountain Creek Watershed District</b>	<b>787</b>	<b>\$146.2 5/</b>	<b>\$4.8 6/</b>
	<b>TOTAL</b>	<b>\$834.3</b>	<b>\$12.8</b>
1/ \$86,328,410 classified at "high priority" 2/ Only includes unfunded maintenance and MS4 permit requirements. 3/ From 2007 Stormwater Funding Project Feasibility Report; \$17,752,000 classified at "high priority" NOTE: While all of the projects are within the unincorporated area of El Paso County, only a portion are within the Fountain Creek Watershed. 4/ Includes \$3.2 million of unfunded needs in 5-year CIP Plan plus an estimated \$81.9 million of projects identified through a 2007 master basin study. NOTE: While all of the projects are within the City of Pueblo, only a portion are within the Fountain Creek Watershed. 5/ Includes \$96.2M of demonstration projects (south of Colorado Springs) plus assumption of \$100M of additional needs. Amount is net of \$50M to be paid by CSU. 6/ Assumes annual maintenance of \$3M plus \$1.8M for planning/engineering/inspections/administration. Source: Budget documents, CIP plans, and special reports of various municipalities and counties.			

It is important to realize this tally of needs is only a rough estimate. All of the information was gathered from jurisdictions and was not verified by Summit Economics as part of this white paper as it requires specialized engineering knowledge beyond the scope of this white paper. In the process of collecting the data, it became apparent that a large portion of the estimates are in need of updating. Construction cost estimates and the mix/prioritization of projects all are in need of review and update. Additionally, it is unclear as to whether the project needs lists of each governmental entity have been coordinated on a watershed basis to eliminate duplication and ensure the most efficient engineering solutions to stormwater runoff problems. It should also be realized that these numbers merely represent a snapshot of current needs and do not reflect additional life-cycle replacement needs that will come due in future years and add to the estimated backlog of needs. Nevertheless, the above represents the best data available at the present time and serves as a basis for our analysis.

The magnitude of the funding needs appear to be daunting at over \$834 million for infrastructure projects and ongoing annual maintenance, repair and planning needs of almost \$13 million. Yet, it should be recognized that it has taken over 40 years for the problem to balloon to its current level and it will likely take many



years of funding to reduce the cumulative cost of the needs. For example, if the cost of the unfunded stormwater infrastructure projects of municipalities and counties are assumed to be addressed over a period of 25 years, the magnitude of the annual amounts necessary to be raised to address the problem are more comprehensible and achievable, albeit still challenging. Annual funding of \$46.2 million would be required over the 25 year period to address all the current capital improvement and ongoing maintenance needs of all the entities in El Paso and Pueblo Counties. Annual funding needs of local governments in El Paso County alone total about \$32.1 million.

### **Value Proposition – Tolerable Funding Levels**

One measure of the willingness of citizens to pay for stormwater management is a comparison of the amount of resources local governments are allocating to stormwater management. The table below provides such a comparison for ten of the largest municipalities in Colorado. Annual funding per capita for those front-range municipalities in 2011 averaged \$52.11. Colorado Springs had the lowest level of annual funding at just \$4.63 per capita. The City of Pueblo provided the second lowest level of funding at \$25.81 per capita. Without Colorado Springs in the mix, average annual funding per capita was at \$57.38. Unfortunately, similar data for El Paso and Pueblo counties was not available due to the accounting structure of their budgets. However, a 2007 stormwater study for El Paso County estimated per capita spending in that year to be at approximately \$4.04.

<b>What Communities are Paying for Stormwater Management Front-Range Municipalities</b>					
Entity	2010 Population	Municipal/Utility Funding	Denver Urban Drainage District	Total Annual Funding	Annual Funding Per Capita
Denver	605,722	\$25,568,800	\$6,927,041	\$32,495,841	\$53.65
Colorado Springs	419,353	\$1,941,400 1/	n/a	\$1,941,400	\$4.63
Aurora	327,020	\$17,800,000	\$1,747,104	\$19,547,104	\$59.77
Fort Collins	144,417	\$14,229,352	n/a	\$14,229,352	\$98.53
Lakewood	143,208	\$3,850,024	\$1,037,980	\$4,888,004	\$34.13
Pueblo	106,739	\$2,755,000	n/a	\$2,755,000	\$25.81
Arvada	106,643	\$9,016,908	\$649,886	\$9,666,794	\$90.65
Westminster	106,459	\$2,128,000	\$711,434	\$2,839,434	\$26.67
Boulder	97,948	\$6,435,755	\$1,605,991	\$8,041,746	\$82.10
Greeley	93,287	\$4,211,679	n/a	\$4,211,679	\$45.15
					<b>Average \$52.11</b>
					<b>Median \$49.40</b>
without Colo Sprgs					<b>Average \$57.38</b>
					<b>Median \$53.65</b>
<small>1/ Cost of MS4 Permit. 2012 budget includes \$414,431 contribution from General Fund with balance covered by one-time remaining funds in City's Stormwater Enterprise. Contingency funds for emergency repairs/maintenance (up to \$1.4 million) are available in City Streets Division budget. Per capita funding is \$7.97 when those emergency funds are included.</small>					

Granted, this comparison is not exactly “apples-to-apples” due to differences in community characteristics including: topography, climate, density and mix of land uses, hydrology, and age of infrastructure. Yet, it provides a practical snapshot of the level of service and relative importance placed on stormwater management by the citizens of other Colorado front-range communities.

The average amount paid for stormwater management in other Colorado Front Range communities was used as one point of reference in measuring the willingness of citizens to pay for stormwater management. What Colorado Springs residents paid under the City of Colorado Springs’ former Stormwater Enterprise (SWENT) as well as average amounts paid through stormwater enterprises throughout the state and nation were also used as rough benchmarks of acceptable taxpayer/ratepayer burdens.

<b>3 BENCHMARKS FOR COMPARISON</b>							
	El Paso County 2010 Population	El Paso County 2010 Hshlds	Annual Funding per/capita	Annual Rev Generated	Monthly Storm Fee Equiv. Cost/Res. Hshld.	Mill Levy equivalency	Sales Tax Equivalency
Front-Range Mun. Average of \$57.38/capita	627,096	237,851	\$ 57.38	\$ 35,982,768	\$ 5.35	5.808	0.510%
C.S. SWENT Equivalency	627,096	237,851	\$ 36.11	\$ 22,645,322	\$ 3.17	3.655	0.321%
Colo Stormwater Enterprises - Average Bill	627,096	237,851	\$ 52.17	\$ 32,717,847	\$ 4.58	5.281	0.464%

Applying the Front-Range municipal average per capita spending of \$57.38 to the estimated population of El Paso County yields approximately \$36 million annually for stormwater management. If that amount was generated through the use of stormwater enterprise fees and assuming non-residential land uses contribute about 58% of the total funding, the average monthly cost per residential household (single-family and multi-family) would be about \$5.35. If a property tax was used as the means of generating the requisite amount of funding, a mill levy of 5.808 mills would be necessary. Similarly, if a countywide sales tax was the preferred means, a sales tax of just over a half cent per dollar of sales would be necessary.

The former Colorado Springs Stormwater Enterprise (SWENT) was used as another point of reference. The enterprise, only within the City of Colorado Springs, generated funding of \$36.11 per capita in its last year of operation in 2009. That level of funding would raise \$22.6 million per year if applied to all of El Paso County. A third benchmark examined was the average monthly bill paid by residential customers in 17 stormwater enterprises in Colorado. While this data is from a 2006 survey, the data still provide a useful comparison. With residential households paying about \$4.58 per month, and assuming non-residential uses contribute about 58 percent of the total funding, annual funding of \$32.7 million would be raised in El Paso County.

Finally, it is estimated that there are more than 500 stormwater utilities now in operation across the country. According to the EPA, the average monthly fee for a single family home is \$3.67, with some communities charging as little at \$.67 per month, while others charge more than \$13 per month per single family home.



While the tolerable level of funding for households will vary from community to community based upon incomes, total tax burden, the perceived value of waterway preservation (including recreational attributes), one must also consider tolerances among the different non-residential users. For purposes of the analysis above, it was assumed that non-residential users contribute about 58% of any stormwater enterprise fees paid. That is the same proportion of total fee revenue actually paid to SWENT by non-residential users. Nationally the non-residential share appears to range from 40% to 70% of the total. The shared total price is especially relevant when some sectors like churches are attuned to paying little or no taxes, yet can be significant generators of stormwater due to large areas of impervious areas that are designed to meet parking and attendance capacities one day a week.

### **Potential Funding Mechanisms**

Stormwater management is typically funded by local governments through a combination of primary and secondary methods. Primary methods have the capacity and flexibility to provide funding for the bulk of the stormwater program. Secondary funding methods are used to enhance equity and simplicity, as well as generate incremental funding. The secondary methods typically have conditions and limitations (legal, practical, political) restricting their use to funding specially targeted components of a stormwater management system.

#### **Primary Methods**

- **General revenue appropriations**
- **Property Taxes**
- **Sales and Use Taxes**
- **Stormwater user (service) fees**
- **Bonding for capital improvements**

A candidate list of funding options for consideration in addressing the stormwater funding needs in the Fountain Creek Watershed was developed including a

#### **Secondary Methods**

- **Special assessment/fee on water & wastewater Utilities**
- **System Development charges (capitalization recovery fees)**
- **Special assessment districts**
- **In-lieu of construction fees**
- **Impact fees**
- **Federal and state funding opportunities (grants, loans)**
- **Recreation user fees**

number of primary methods and several secondary methods. These candidate lists were developed as a result of research of typical funding methods employed by local governments along with an examination of new trends in stormwater funding throughout the nation. The funding options were then compared to current Colorado statutory and constitutional requirements/limitations and pared down as necessary. The primary and secondary methods are listed in the tables above.

As mentioned previously, many of the factors and circumstances cited earlier in this report as contributing to the stormwater funding challenges in the Fountain Creek Watershed are not unique to this region, or to Colorado. The national trends have all combined to spawn a wave of creativity in addressing stormwater needs.

The new approaches involve less direct governmental participation and intervention and a movement away from the use of large publicly owned/operated/maintained stormwater facilities and solutions. Rather, they are methods that utilize market forces, encourage individual accountability and actions to mitigate stormwater run-off, and provide incentives/disincentives to encourage changes in behavior and practices.

From the perspective of local government, many of these approaches are best described as “cost avoidance” in that they can serve as a means of helping achieve regional water quality and flood control goals by reducing the need for stormwater management services provided by local governments. The “outside the box” or emerging methods include:

- ↳ Environmental tax shifting (“Pay to Pave” tax or fee)
- ↳ Market-based approach - “Cap and Trade” system
- ↳ Development incentives for Low Impact Development (LID)
- ↳ Tax Credits/Rebates and installation financing
- ↳ Awards and recognition programs

In addition to the emerging methods, policy makers should be cognizant of broader emerging trends in public/private initiatives whereby the public sector establishes desirable outcomes rather than prescriptive regulations. Such an approach holds promise in achieving objectives at a lower total societal cost as the private sector will pursue innovative cost saving approaches to achieving the desired end. An outcome based approach does require greater collaborative efforts on the front-end, but the payoff can be substantial as new, more efficient and effective solutions are always possible instead of long-standing, inflexible design requirements. Some public infrastructure design requirements from the past are now resulting in unintended consequences by rapidly channeling stormwater into waterways and actually represent a significant part of the stormwater and watershed infrastructure replacement cost. Given stormwater management is a relatively new public good at the local level, policy makers should anticipate innovation. For instance, redevelopment of old neighborhoods that have become economically obsolete can embrace higher density development and more green areas for water retention as well as recreation.

For a complete description of funding mechanisms see Appendix B.

### **Funding Equity**

An important consideration in the evaluation of the various funding mechanisms for stormwater management is whether they are equitable. In other words, are the benefits accruing to those who pay? Each of the funding mechanisms considered in this analysis have different levels of equity associated with them. While tax equity is a much debated topic, in the case of stormwater management, equity is pretty straightforward. An equitable solution is one where everyone pays their proportionate share of the total cost based upon how much they contribute to the problem.

The national pursuit of stormwater enterprises charging land owners a “fee” based upon impervious surface exemplifies efforts of economists and engineers to equitably allocate the cost of stormwater management. Unfortunately, it represents a new approach that most property owners are totally unfamiliar with. Hence, equity must be weighed against simplicity and clarity. It is certainly simpler to levy incremental taxes or reallocate funds from the general fund to pay for the public good. But such approaches can be far less equitable.

For instance, if viewed from the perspective of cost recovery, a property tax is not the most equitable approach to recovering stormwater management costs. A property tax dedicated to stormwater would not be paid by governmental properties, schools, colleges and universities, and certain non-profit agencies and businesses. Additionally, property taxes are based on assessed property value. The amount of stormwater runoff created by an individual property is not necessarily related to the assessed value of the property. For example, some land uses including parking lots, warehouses, discount retail stores and other properties may have very large amounts of impervious surface that greatly impact stormwater runoff. Yet, these uses having relatively low assessed values would likely not be paying their fair share.

Sales and use taxes are the largest revenue generator for municipalities and counties in Colorado and are typically viewed by taxpayers as being fair and equitable. Yet, there is very little nexus between the level of taxable consumption and sales taxes paid by a household and the amount of stormwater runoff it creates. Additionally, the use of sales taxes to fund stormwater management may actually serve to shift a disproportionate share of the burden of paying for stormwater management onto households and away from the owners of non-residential properties that generate a large share of stormwater runoff.

Stormwater utility fees also offer a more equitable system for raising revenues by basing fees on actual runoff impact, rather than property value, household consumption or water usage. Under a stormwater utility fee system, governments, non-profits, and other tax-exempt entities that contribute to stormwater runoff are generally treated like all other properties. Further, stormwater utility fees have the potential to positively affect behaviors, especially when fees are based on impervious surfaces or a system of credits are put into the system that reward property owners that implement on-site measures to reduce their stormwater runoff.

Yet, in designing stormwater fees, equity must also be weighed against simplicity and clarity. A stormwater utility fee rate structure might be highly equitable in terms of assigning costs according to service demands, yet still be deficient politically if it is too complex for the public to grasp the linkage between service, costs, and charges. Simpler rate structures are preferred as they are typically less expensive and burdensome to administer and usually result in a higher level of customer acceptance. But care must be exercised in the design of the structure to ensure it can meet established legal standards for the definition of utility fees.

## **Assessing the Viability of Funding Mechanisms**

Whenever an effort is made to develop new financing concepts for a function as complex as stormwater management, there needs to be some basis established for evaluating and judging the appropriateness of the various options under consideration. The American Public Works Association's (APWA) seminal training

### **KEY FACTORS IN ASSESSING THE VIABILITY OF FUNDING MECHANISMS FOR STORMWATER MANAGEMENT**

1. What is the political acceptance of the funding method?
2. Is it equitable? Are the benefits accruing to those who pay?
3. Is it feasible to implement?
4. Is it relatively easy to administer?
5. Is it legally defensible?
6. Can it generate sufficient funds to get the job done?
7. Will it provide a dedicated source of funds or will others be competing for the same dollars?

manual "Designing and Implementing an Effective Stormwater Management Program" included a set of criteria that it utilized in evaluating the viability and effectiveness of the use of general tax revenues as compared to use of a stormwater utility. Those seven factors, listed in the adjacent table, are still timely and applicable for

use in evaluating the various funding options identified for consideration in funding stormwater management within the Fountain Creek Watershed. All of the factors were given equal weight when assessing which funding mechanisms are most desirable. For a detailed description of the criteria or factors used for assessment, along with the scoring methodology, see Appendix C.

There are five funding options that rate very well against the evaluation criteria: Property Taxes, Sales Taxes, Bonding, Federal/State grants, and Recreation Fees. Of those five, only Property Taxes, Sales Taxes, and Bonding have the capacity to generate funding large enough to make a serious dent in the backlog of stormwater management needs in the Watershed. While those three have high funding capacity, they each have low political acceptance and equity. The remaining two (Federal/State grants and Recreation fees) have high political acceptance but low funding capacity.

That dichotomy is also generally evident when all of the 17 funding options are considered. Among the seven funding options having a high political acceptance, six have low funding capacity. This can be seen in the following table summarizing the evaluations prepared for each of the 17 funding options.

## SUMMARY OF EVALUATION OF POTENTIAL FUNDING SOURCES

Funding Source	Evaluation						
	Political acceptance	Equity	Feasibility	Easy to Administer	Legal Structure	Funding Level	Dedicated to Program
General Revenue Approp.	H	M	H	H	H	M	L
Property Taxes	L	L	H	H	H	H	H
Sales Taxes	M	L	H	H	H	H	H
Stormwater Fees	L	H	H	M	M	H	H
Bonding	L	M	H	H	H	H	H
System Dev. Charges	H	H	M	M	H	L	H
Special Assess Districts	M	H	L	L	M	L	H
In-lieu of Const. Fees	H	H	M	M	H	L	H
Impact Fees	M	H	M	L	M	L	H
Fed/State Grants	H	H	H	M	H	L	H
Rec. User Fees	H	H	H	M	H	L	H
Special Assess/Fee on Water Util.	L	M	H	H	M	M	H
Pay to Pave Tax or Fee	M	H	M	M	M	L	H
Cap and Trade system	M	H	L	L	M	L	H
Dev. Incentives	H	H	M	M	M	L	H
Tax Credits/Rebates	H	H	M	M	H	L	H
Awards & Recognition Program	H	H	M	M	H	L	H

Note: "H" = High; "M" = Medium; "L" = Low

Funding options having the lowest combined ratings included special assessment districts, a Cap and Trade system, and impact fees. As noted previously, each of the seven evaluation criteria in this analysis has been assigned equal weight. Giving heavier weight to any category, for example political acceptance, could easily result in an outcome and conclusions very different from those discussed above. This exercise is somewhat subjective. However, it does provide additional insight and understanding of each of the funding options and their relative strengths and weaknesses.

The above table also offers some perspectives on hybrid funding strategies that might be developed. For example, could those funding options having a high level of political acceptance but low funding capacities by themselves be combined, or blended into a package of funding options? Or, alternatively, could a small property tax mill levy be combined with that same package of funding options to offer a package that would have appeal to voters and possess the capability to substantially fund stormwater?

Taking the analysis further, the list of potential funding sources was narrowed down to include funding sources that rated well against the seven criteria, and have the capacity to generate revenue sufficient to make a serious dent in the backlog of stormwater needs in the FCW. This analysis produces four viable funding mechanisms: property tax, sales tax, general revenue appropriations, and stormwater fees. Of these, none have high political acceptance due to expressed political preferences among the electorate. It has been several decades since a property tax increase has passed, except at the school district level. The stormwater fee approach was rejected by the Colorado Springs City Council in 2009, and the general fund approach does not advance the cause beyond its current status unless the various governmental entities change their priorities or are forced to by outside regulatory agencies or the courts. Only sales tax increases have a history of voter approval in the region, albeit with sunset provisions whereby the tax ceases after a defined period of time unless extended by the electorate.



The bottom line is any significant funding mechanism must involve extensive community education and deliberation to dramatically increase awareness and gain the public support necessary to become a sustainable solution.

### **Local Preferences**

As part of the research conducted for this study effort, a total of 20 community leaders and technical experts were interviewed. Additionally, two focus group sessions were conducted with the Technical Advisory Committee and the Citizens Advisory Group of the FCWD. There was strong consensus regarding the following:

- A comprehensive regional solution is preferred;
- All jurisdictions MUST participate on a reasonable basis – no free riders allowed;
- A simpler and cheaper to administer approach is preferred;
- Solutions should create incentives & promote innovation;
- Strong community support, and probably a vote of the people, is required regardless of the funding approach utilized;
- Meeting federal, state, and local mandates and commitments such as the 1041 permit associated with the Southern Delivery System are of primary importance

For a complete summary of input received through the interviews and focus groups see Appendix D.

### **Organizational Structures**

The identification and selection of the best mix of funding sources is important in addressing the stormwater funding challenges within the Fountain Creek Watershed. But the identification and selection of the best organizational structure to implement and administer those funding sources is also a critical piece of any solution. Considerations of operational efficiency, legal limitations and constraints, political control, and the achievement of larger goals such as regionalization of stormwater management are just some of the many factors in selecting the optimum organizational structure.

Stormwater management services are usually provided directly by municipalities and counties or under their umbrella as a standalone stormwater utility or as a part of an existing water/wastewater utility enterprise. As a public good, storm drainage and flood control have, since colonial times, traditionally been the responsibility of local governments. Federal and state MS4 (Municipal Separate Storm Sewer Systems) permit requirements and regulations have also served to solidify the role of municipalities and counties in providing stormwater management services. An MS4, by definition, is a stormwater runoff conveyance system owned by a state, city, town, village or other public entity that discharges to waterways. The U.S. Clean Water Act requires the operator of an MS4 to obtain an NPDES permit. However, that doesn't prevent the owners of such conveyance systems from transferring ownership or delegating management responsibility of the system to other entities like a special district or regional stormwater entity.

There are seventeen MS4s within the watershed that maintain NPDES permits. These range from El Paso and Pueblo Counties, to cities, metro districts and even school districts and universities. In addition to these local governmental entities, the FCWD has begun to provide stormwater and flood control services through its various demonstration projects in Fountain Creek. As a regional district, however, the FCWD has broad powers and authority to serve a much larger role in providing stormwater runoff and flood control services on a regional basis.

Regional solutions to stormwater management, however, are not the norm in much of Colorado with two notable exceptions in the Denver metropolitan area. Those exceptions being: 1) the Urban Drainage and Flood Control District (UDFCD) that encompasses 7 counties and 32 incorporated cities and towns; and 2) The Southeast Metro Stormwater Authority (SEMSWA). Both of these approaches have gained national recognition and attention -- UDFCD for its long running success and regional cooperation for over 40 years, and for creativity in the case of SEMSWA. Both are successful regional models for providing stormwater infrastructure and maintenance and contain many characteristics and practices worthy of consideration in designing a regional structure within the Fountain Creek Watershed. A description of how each is structured and operates is presented in Appendix E.

In total there are 73 different kinds of local governmental entities allowable under the Colorado constitution and statutes. A total of 9 are authorized to provide some or all of the elements of a fully functioning stormwater management system. These include:

- Counties
- Municipalities (cities, towns)
- Metropolitan Districts
- Drainage Districts
- Special Improvement Districts
- Urban Drainage and Flood Control Districts
- Conservancy Districts (flood control)
- Authorities (intergovernmental contract)
- Regional Service Authorities

These 9 types of local governments are the universe of candidates that can be considered to implement and administer the funding options previously identified.

After a review of the authorizing statutes for each of the nine candidate structures, four of the candidate entities were dismissed from further consideration. First, the use of metropolitan districts was ruled out due to statutory requirements governing their formation. Specifically, the authorizing county or city must make a series of definitive findings regarding the need and sufficiency of the services to be provided by the district. It is not likely possible that the board of the authorizing local government will be able to make those findings given that stormwater management services are already being provided by local governments within the likely boundaries of such a district. Drainage districts were ruled out as they appear to be only applicable to agricultural land uses. Similarly, conservancy districts for the purpose of flood control were also removed from further consideration because they also are only applicable to agriculture. Special improvement districts

were eliminated from consideration given that they only allow the use of special assessments as a means of revenue generation. Special assessments are only practicable in relatively localized or specific applications.

This leaves five local governmental entity types for further consideration.

- **Municipalities:** Responsibility for all stormwater management services could stay with each individual municipality in the watershed.
- **Counties:** Each of the two counties in the watershed could assume a larger role in the funding of stormwater management in their respective county.
- **Regional Service Authority (RSA):** An alternative to counties assuming a larger leadership and accountability role in stormwater management would be the formation of an RSA for stormwater management. The boundaries of an RSA must include, at a minimum, all the territory of at least one county and can include additional counties so long as each county has some contiguity with another county within the authority. Yet, the process for forming an RSA is quite complex and cumbersome.
- **Urban Drainage and Flood Control Districts:** The FCWD is in this category and is already in place and operating. The FCWD could assume a role in its watershed that is similar to the role the UDFCD fulfills in the Denver metropolitan area. Under this alternative, the FCWD would actually be fulfilling the role envisioned in the enabling legislation for the District.
- **Regional stormwater authority:** Such an authority could be created through the adoption of an authorizing IGA by all, or some of the MS4 local governments in the region. Under the IGA, the member local governments would essentially be delegating some or all of their stormwater management duties and responsibilities to the authority. The authority could operate like a stormwater enterprise by collecting stormwater service fees.

See Appendix F for a more detailed description of each governmental entity.

There is one other alternative organization structure for the provision of stormwater management services and infrastructure. That alternative would be to relocate the management, operation and revenue raising responsibilities for stormwater management from the City of Colorado Springs to Colorado Springs Utilities (CSU). On the surface, such an organizational shift may seem to be straightforward and desirable. CSU has tremendous organizational capacity to accept the operational aspects of stormwater management and would likely be able to provide services at a lower marginal cost given the economies of scale and existing technical capabilities it already has in place. The primary problem organizationally with this alternative is that it is not regional in nature. CSU would simply be replacing the City's general municipal government in providing municipal stormwater management services.

While each of the six organizational structures described above could accomplish the basic goal of delivering stormwater management services within the Fountain Creek Watershed, there does not appear to be an optimal structure. Each has its strengths and weaknesses. If a regional solution to the stormwater funding problem takes precedence, then the municipal and CSU options should be removed from the table unless coordinated with other regional structures. If ease of establishing the organizational structure is considered a priority, then the RSA option should be dropped from consideration given the complex and cumbersome



statutory process for their formation. That leaves three candidate organizational structures able to assume responsibility for providing stormwater management services on a regional basis:

- ✓ **FCWD**
- ✓ **Counties**
- ✓ **Regional Stormwater Authority**

## **INTEGRATED FUNDING OPTIONS**

The three organizational structures/entities having the capability of providing stormwater management services and infrastructure on a regional basis were compared against the various funding mechanisms they are able to implement under current Colorado statute. As presented below, the resultant matrix shows that counties have the ability to implement the full range of funding mechanisms considered in this analysis. It is noteworthy that counties can impose, with voter approval, either a property tax or a sales tax dedicated to stormwater management. They can also form stormwater enterprises and collect stormwater fees and charges.

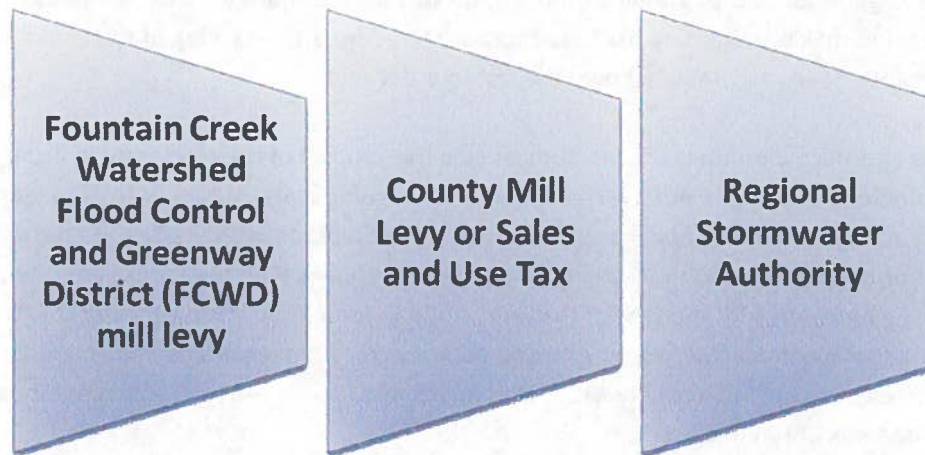
Urban drainage and flood control districts, like the FCWD, can impose a property tax, with voter approval, but have no legal authority to impose a sales tax. They also have the legal authority to collect stormwater fees, but only within the watershed management area of the district. They also have statutory authority to implement only some of the secondary and "out of the box" funding sources considered in this analysis. Those include special assessment districts, impact fees, Federal and state grants/loans, recreation fees, and awards and recognition programs.

Except taxes, the funding mechanisms that can be implemented through a regional stormwater authority are only limited to those that can be imposed by the authorizing local governmental entities and specified in the authorizing IGA. Local governments cannot delegate or transfer their rights to impose taxes through an IGA. The authority could operate like a stormwater enterprise by collecting stormwater service fees as well as system development and in-lieu of construction fees from new development.

ENTITY	FUNDING MECHANISMS					
	Property Tax	Sales Tax	General Revenue Approp.	Stormwater Fees	Secondary Revenue sources	"Out of the Box" Sources
Urban Drainage and Flood Control Districts	YES	NO	YES	PARTIAL	PARTIAL	PARTIAL
Counties	YES	YES	YES	YES	YES	YES
Regional Stormwater Authorities	NO	NO	YES	YES	YES	YES

### **Three Funding Scenarios (General Options for Consideration)**

As a result of the analysis described above, three general approaches for addressing the stormwater funding challenges are offered for consideration and discussion. Each of the three options offers a regional approach to stormwater management and appears to have the capacity to generate revenue sufficient to address the backlog of stormwater needs within the watershed. The options are:



These three options are offered as merely a starting point for a broad community discussion and dialogue regarding potential solutions to stormwater funding in the Fountain Creek Watershed.

Each of the three funding scenarios, purely by chance, has a primary funding source different from the other two. The FCWD option is funded through a property tax. The County funding option could be either a sales tax or a property tax, although the sales tax would be clearly the preferable of the two given voter preferences in the region. While the regional stormwater authority option is essentially a stormwater enterprise funded through a user fee. These funding scenarios provide a broad breadth of options that should serve to stimulate a useful and productive community dialogue.

For further discussion of the alternatives, along with some possible permutations, see Appendix G.

### **Municipal Options for Funding Stormwater**

Given that roughly two-thirds of the estimated backlog of unfunded stormwater management needs in the Fountain Creek Watershed is attributable to the City of Colorado Springs, some funding alternatives available to that municipality were also developed. Those alternatives are described in Appendix H. It should be noted, however, that none of the municipal options described in that Appendix do anything to further the goal of regionalization of stormwater management except when paired with other regional funding options.

## **PURSuing THE CHALLENGE**

The three funding scenarios described in the previous section are offered as general approaches for addressing the stormwater funding challenges being faced by local governments in the Fountain Creek Watershed. They are offered as a foundation, or jumping off point, for further community dialogue, discussion, and deliberation for decision-making regarding the best approach to address the backlog of stormwater infrastructure and maintenance needs accumulated over the last four decades.

Regardless of the approach ultimately chosen, it must gain the support of the electorate in order to generate the substantial funding needed to meet the challenge on an ongoing basis. Whether from taxes or fees, the general funding parameters which appear acceptable along the Colorado Front Range and throughout the nation are based on pricing of \$2.50 to \$5.00 per household per month with the funds generated from households totaling between 30% and 60% of the total funding necessary. The balance of the funds must come from pricing to the commercial, non-profit, and public sectors, along with user fees, grants, and other means. These prices translate into roughly 3 to 7 mills in property tax or .5% to .6% increase in sales taxes depending upon the mix of funding used.

Choosing to do nothing or refusing to act represents the current state of affairs in El Paso County. A continuation of this direction will lead to growing jurisdictional conflicts both within the County and between County public jurisdictions and State and Federal agencies. At some point in time what is now an emerging conflict will become manifest through regulatory enforcement and/or litigation. In addition, continued deterioration of public infrastructure within the waterways will lead to more costly repairs and replacements down the road and will discourage new investments in recreational amenities if the investments will be vulnerable to the first flood event.

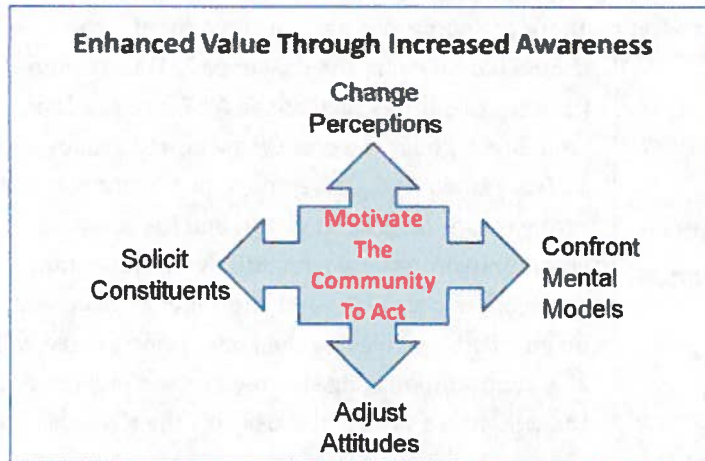
A good way to think of the Fountain Creek Watershed is as an unfunded liability. Without funding the liability simply grows. How fast will the liability grow is one question, as is the actual size of the current liability. Based upon current estimates it appears the current liability is manageable if funding begins. Perhaps the best way to think of the FCW is as an asset to be developed. The vision of a grand regional recreational asset with trails, riparian wildlife refuges, and even water sports such as canoeing, kayaking, and tubing has significant long-term appeal.

### **The Goal**

The ultimate goal is to achieve strong support of the Fountain Creek Watershed residents and organizations in order to adequately fund capital investment, repairs, maintenance, and administration of the watershed. The community must be motivated to act. In essence they must perceive greater value in order to pay the price. This is achievable through greater awareness of the issues.



This goal requires changing perceptions of many citizens. Generally, if perceptions change, attitude adjustments follow along with value associations. This requires the solicitation of constituents at all levels of sup-



port and confronting people's mental models of stormwater and watersheds, which are likely to be only moderately developed as opposed to ingrained and intractable.

Based upon interviews conducted with community public and private officials it is very clear that strong support is required and the need for a community vote appears desirable, and is probably a requirement given many of the funding options involve either taxation or "back door taxation" through higher fees charged by public enterprises

such as water utilities and districts. A successful election campaign with a strong margin of victory will be the ultimate barometer of success.

Within this framework there are four dimensions for meeting the challenge:

1. Turn what is viewed as a liability that has to be paid for into an asset worthy of investment and maintenance. The long-term creation of a regional recreational amenity is worthy of consideration under this dimension. To the degree that the vision of a recreational amenity assists in furthering the cause, any recreational investment is not sustainable without basic flood control investment and repairs and maintenance.
2. There is a watershed ethic which mandates upstream and downstream communities work together to provide a safe and healthy watershed. The reluctance of many communities throughout the United States to implement the watershed ethic, regardless of the reason, is likely to continue, leading to heightened enforcement efforts by the EPA – either directly or channeled through State governments. The community needs to decide whether it wants to address the issue on its terms or the EPA's terms.
3. In return for securing fresh water to better assure the future supply to El Paso County communities and to support growth, Colorado Springs and other SDS partners committed to certain stormwater management standards.
4. Failure to address stormwater needs results in high safety and infrastructure costs. Flood events can result in significant property damage to bridges, pipelines, roads, embankments, and other infrastructure or property, as well as pose a risk of personal injury, or in extreme cases, death.

## **Stakeholders & Constituents**

There is significant support for active stormwater management among a broad base of leaders in the FCW. They understand the fundamental challenge. In addition there are numerous natural constituents who

### **Natural Constituents**

- |                                |                       |
|--------------------------------|-----------------------|
| • Downstream Cost Bearers      | • Streambed Investors |
| • Riparian Ecosystem Advocates | • Moralists           |
| • Recreationalists             | • Contract Committers |
| • Drought Intolerants          | • Land Transformers   |
| • Aquifer Drinkers             | • Job Creators        |

should identify with the challenge. These range from those entities such as the Air Force Academy who directly bear the cost of inaction to groups such as Trout Unlimited. Developers, metro districts currently reliant on ground water, and the business community in general who intuitively understand the economic cost of water shortages all have vested interests in achieving the goal. Some people will also support managing stormwater and maintaining the watershed simply because "it's the right thing to

do". With a reasonable goal and a broad base of support that simply needs greater awareness, moving forward to change perceptions and attitudes among the electorate in general is clearly achievable through a well designed and implemented public process.

## **Public Process – A Communications Exercise**

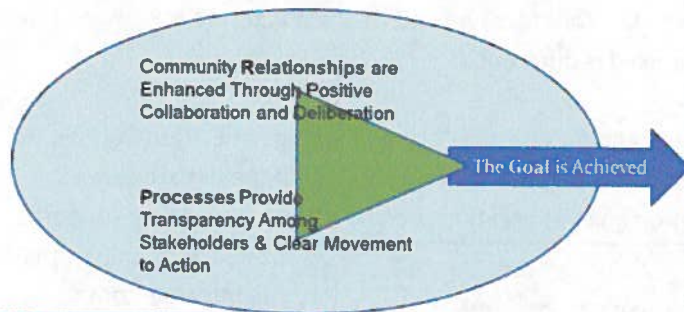
Public Process seeks the input and guidance of the public to improve the design and implementation of important projects. The form it takes depends upon the objectives of the leadership in crafting and implementing projects, processes, products, and programs. In this sense, a public process can be thought of as a communications program that seeks to gather and disseminate information, as well as inform, persuade and influence the public

When the private sector undertakes market research to improve a product launch, it is essentially engaging in a form of public process where public input is sought to assure that the right product is offered, the promotional campaign is effective, prices are set to maximize long run profitability, and the product is offered where and when the consumer wants it. Similarly with public goods, politicians and staff may engage in town hall meetings to seek public input concerning the services needed, and in some cases seek extensive public input and education to better inform decision makers of what product, price, promotion and distribution strategy will be most effective. In other cases only a limited amount of input is needed and the focus is on informing the public of the existence of the service.

Ideally the public process depends upon the project's goals and the information flow required between the stakeholders and leadership. In reality the ideal is often distorted by other leadership and stakeholder agendas and by an ad-hoc process that is typically poorly planned and implemented. Even when the process is planned, the adage "be careful what you ask for" is relevant as the opportunity exists for stakeholders to provide input that will impact expectations, perceptions and attitudes in ways that may not maximize the chances of success for overall objective.

Given that effective communication is the key element to influencing expectations, perceptions, and attitudes; the communication effort is critical in establishing effective long-term, continuous relationships between Stakeholders and Leaders.

## Defining Success



In the case of developing a stormwater mechanism for the Fountain Creek watershed, the public process needs to pay heed to lessons learned from the past. Given the false start of the Colorado Springs SWENT, one might even view a well designed and implemented process as being a trust building exercise for the future of the community's political and leadership systems. In this sense, even if the process falls somewhat short of achieving the ultimate stormwater goal, it can still be highly success-

ful in enhancing community trust as part of laying a foundation in the community for what appears to be a growing trend towards participatory as opposed to representative democracy. Lessons have been learned from both the successes of some funding efforts in the Pikes Peak Region, as well as failures in the region. This White paper draws from those lessons, and are incorporated into the recommendations. Additionally, the experience of other communities in addressing stormwater is also valuable, and has also been included in this White paper.

The strategy and tactics outlined in the following pages are based upon a review of both the successes and failures in prior El Paso County initiatives to increase taxes for specific purposes, as well as from interviews with other communities who managed to get electoral support for stormwater initiatives.

## Lessons from the Past

In November, 2009, the Colorado Springs electorate passed Proposition 300 which the proponents claimed required the City to eliminate the Storm Water Enterprise (SWENT). While many felt the need to close SWENT was legally debatable based upon the ballot language, the City Council concluded such closure was the intent of the proposition which had become popularly known as the proposition to kill "The Rain Tax". Many proponents felt SWENT was a "back door" tax created by the City Council and funded through fees in order to avoid going to the electorate for vote on a tax increase to fund stormwater management and mitigation.

While Proposition 300 appeared to be a referendum against "The Rain Tax", assuming its passage means majority support for stormwater and watershed management is unattainable in El Paso County could be a fallacy. The proposition passed by a margin of 55% for to 45% against. Furthermore, it passed in an environment marked by the worst national recession since the Great Depression as well as an initiative to increase property taxes put on the ballot by City Council to compensate for declining sales tax revenues due to the recession. When the unavoidable macro-economic times are combined with the public's frustration over a relatively

complex fee system based on the square feet of impervious surface, questions regarding how money was being spent, and the lack of a thorough public education process (and possibly even a vote), the demise of SWENT might have been anticipated in a fiscally conservative community.

There have also been successes in public process from which important lessons can be learned. What might have happened under different circumstances such as normal economic times, an understandable issue, and a simple pricing or taxing scheme? A review of the last four taxes passed by the electorate can provide insight into the prospects for support if the process used is different.

The table below lists the last four significant tax increases passed in Colorado Springs or El Paso County. All of them are sales taxes with sunset provisions. Before being put on the ballot, all of the initiatives went through an extensive citizen-led dialogue, education and deliberation process. There was strong support

### **Past Successes - TOPS, SCIP, PSST, PPRTA**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Citizen empowerment   | <input checked="" type="checkbox"/> High profile "champions" of the cause   |
| <input checked="" type="checkbox"/> Citizen-driven – Politician Supported                               | <input checked="" type="checkbox"/> Unanimous support of key stakeholders   |
| <input checked="" type="checkbox"/> Coordinated bottom-up and top-down community deliberation process   | <input checked="" type="checkbox"/> Local design/contracting industry support (financial and technical)   |
| <input checked="" type="checkbox"/> Establishment of a core constituency and coalition (TOPS and PPRTA) | <input checked="" type="checkbox"/> Community dialogue, education and deliberation process is complete before moving forward with any ballot question |
| <input checked="" type="checkbox"/> Support from all business groups                                    |   |

from a wide spectrum of the business community and the initiatives had champions for the cause. The major lesson that should be learned is that tax increases in El Paso County require an extensive and patient education and empowerment process. It appears one must "go slow to go fast". In other words, efforts to run to the ballot without the electorate having a clear understanding of how their money will be spent is likely to meet rejection.

A detailed Public Process Strategy is presented in Appendix I. It concludes with a specific set of recommended steps to proceed.

In conclusion, we end this Whitepaper with a statement that hopefully will inspire and lead the community and its leadership to move forward to address this critical need: A Call to Action



## **Call to Action**

Now is the time for residents of the FCW, especially Citizens of El Paso County, to clarify and demonstrate their values as a community. While El Paso County and Colorado Springs clearly have a unique political culture, to conclude the community would never support the little known watershed nor the challenges and obligations presented by stormwater runoff, is erroneous. The 2009 passage of Proposition 300 in itself does not support such a conclusion. Given the overall circumstances of the national economy, the new approaches associated with stormwater fees, and the overall process from which the SWENT emerged from 2006 to 2009, the 55% support for Proposition 300 should surprise no one. A battle was lost. Lessons should be learned as the community regroups to push the initiative forward towards an inevitable goal. One way or another the watershed ethic will prevail – either through collaborative, shared efforts or through *force majeure* where an external force exerts itself on the community. A community that prides itself on self-determination, efficient and effective government, and public safety and health should not allow circumstances to rule the day.

There are numerous viable options on the table to create reliable revenue streams to preserve and enhance the Fountain Creek Watershed through stormwater management and investment. This White Paper has highlighted three general regional approaches. To be successful in such an endeavor requires leadership from the public and private sectors, which the research for this White Paper found to exist across the political spectrum.

Focus on the 75% of the active voters and 85% of all potential voters who will at least consider the prospect of watershed preservation and enhancement. Being successful in elevating the community's awareness of the watershed and the challenges presented by stormwater requires embracing the political culture of El Paso County as well as community engagement through an aggressive education program with the specific waterways. Such engagement is necessary to gain a greater awareness of the likely consequences of no action and the opportunities offered by well maintained waterways and watershed infrastructure.

Perhaps the most crucial element in pursuing the challenge is reminding ourselves of the watershed ethic whereby upstream and downstream stakeholders respect one another's private and common interests associated with the watershed and accept the responsibilities of such an ethic. With such respect comes collaboration and the ability to engage in self-determination of watershed governance.

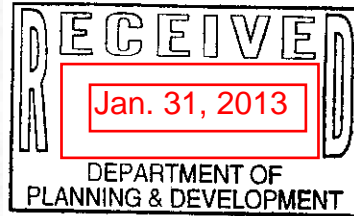
This is the challenge we must aggressively pursue.



Colorado Springs Utilities

*It's how we're all connected*

Michael J. Ryan  
Regional Director  
Great Plains Regional Office  
Bureau of Reclamation  
P.O. Box 36900  
Billings, MT 59107-6900



January 31, 2013

**Subject: Southern Delivery System Permit Compliance Annual Report (Calendar Year 2012)**

Dear Mr. Ryan,

Colorado Springs Utilities, the Southern Delivery System (SDS) Project Manager, hereby submits the attached Permit Compliance Annual Report for Calendar Year 2012. Submittal of this report demonstrates the SDS Project's progress in successfully implementing the commitments prescribed in the SDS ROD, as well as meeting the annual reporting requirements for other programmatic permits and approvals.

Please contact me at 719-668-8037, or Allison Mosser at 719-668-8667, with any questions regarding the attached report.

Sincerely,

John A. Fredell  
Southern Delivery System Program Director

Enclosure

**Distribution List:**

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# **Southern Delivery System Permit Compliance Annual Report Calendar Year 2012**

Prepared for:

**Bureau of Reclamation**

**Colorado Department of Public Health and  
Environment**

**Colorado Division of Parks and Wildlife**

**El Paso County**

**Pueblo County**

**Fountain Creek Watershed Flood Control and  
Greenway District**

Submitted by:

**Colorado Springs Utilities, SDS Project Manager  
on behalf of the SDS Participants**

January 2013

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- 1 Southern Delivery System Project Plan

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- 1 Implementation Progress Matrix
- 2 Monthly Average Flow Date from USGS Gauge Station
- 3 Water Quality Monitoring Data
- 4 Complaint Log
- 5 Emergency Response Log
- 6 Log of Work Occurring During Non-Typical Work Hours
- 7 Expenditures for Wastewater System Improvements Annual Report for 2012

# Acronyms and Abbreviations

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1041 Permit	Pueblo County 1041 Permit No. 2008-002
BMPs	Best Management Practices
CDOPW	Colorado Division of Parks and Wildlife
CDPHE	Colorado Department of Public Health and Environment
CWC	Colorado Wildlife Commission
CWCB	Colorado Water Conservation Board
EMS	Environmental Management System
FEIS	Final Environmental Impact Statement
FWMP	Fish and Wildlife Mitigation Plan
GMP	Geomorphic Mitigation Plan
IAMP	Integrated Adaptive Management Plan
mgd	million gallons per day
MP	Monitoring Plan
NEPA	National Environmental Policy Act
PCAR	Permit Compliance Annual Report
PDC	Pueblo Dam Connection
Reclamation	Bureau of Reclamation
ROD	Record of Decision
SCMP	Socioeconomic Construction Management Plan
SDS	Southern Delivery System Project
SDS Participants	City of Colorado Springs, City of Fountain, Security Water District, and Pueblo West Metropolitan District
USACE	United States Army Corps of Engineers
USGS	United States Geological Survey
UWCR	Upper Williams Creek Reservoir
WCR	Williams Creek Reservoir
WTP	water treatment plant

# Executive Summary

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The Southern Delivery System Project (SDS) is a regional water delivery system that will serve the City of Colorado Springs (via Colorado Springs Utilities), City of Fountain, Security Water District, and Pueblo West Metropolitan District (collectively, the SDS Participants).

## Purpose

The purpose of the SDS Permit Compliance Annual Report (PCAR), submitted by Colorado Springs Utilities, the SDS Project Manager, is to demonstrate progress in successfully implementing the commitments as prescribed in the Record of Decision (ROD) to the Bureau of Reclamation (Reclamation). Colorado Springs Utilities also reviewed the other six programmatic permits/approvals that are in place to identify the annual reporting requirements of each. The following four permits/approvals have annual reporting requirements addressed in this report:

- El Paso County Location Approvals
  - Planning Commission Resolution U-09-002, March 2, 2010, Southern Delivery System Raw Water Pipelines, Amended by Resolution U-12-001, October 18, 2012
  - Planning Commission Resolution U-09-003, March 2, 2010, Southern Delivery System Finished Water Pipelines, Amended by Resolution U-12-003, October 18, 2012
  - Planning Commission Resolution U-09-004, March 16, 2010, Southern Delivery System Bradley Pump Station
  - Planning Commission Resolution U-09-005, March 16, 2010, Southern Delivery System Upper Williams Creek Reservoir, Amended by Resolution U-12-002, October 18, 2012
  - Planning Commission Resolution U-09-007, March 16, 2010, Southern Delivery System Exchange Flow System, Amended by Resolution U-12-004, October 18, 2012
- Pueblo County Board of County Commissioners Resolution No. P&D 09-22 approving 1041 Permit No. 2008-02, April 21, 2009
- Fountain Creek Watershed, Flood Control and Greenway District (District) Resolution 2010-01, February 26, 2010
- Colorado Department of Public Health and Environment (CDPHE) 401 Certification No. 4224, April 23, 2010, which includes the requirement to provide copies of all other annual reports

The following two programmatic permits/approvals do not specifically include annual reporting requirements.

- Memorandum of Agreement with the State of Colorado, Department of Natural Resources on behalf of the Colorado Division of Wildlife regarding the Fish and Wildlife Mitigation Plan, May 18, 2010
- United States Army Corps of Engineers(USACE) Clean Water Act Section 404 Individual Permit No. SPA-2005-00131-SCO, April 26, 2010

## Reporting Requirements

The ROD requires annual reporting to summarize the SDS's progress made in implementing the ROD commitments. Colorado Springs Utilities has elected to develop a single SDS PCAR that addresses the ROD commitments and the other annual or periodic reporting requirements included in the programmatic permits/approvals that are listed above.

## Summary of SDS Activities During this Reporting Period

The SDS has met a number of key milestones during this reporting period associated with the design, construction, and completion of various work packages. The valve and valve house installation at Pueblo Dam Connection was completed and tested. Construction on 7 pipeline work packages began or continued during the reporting period, with approximately 30 miles of pipeline installed. Design continued on the remaining pipeline work packages. Design of the water treatment plant was completed and the raw water pump stations reached 90% design.

Colorado Springs Utilities also continued identification of a location for the wetland construction to mitigate the 12.0 acres of non-jurisdictional wetlands that will be affected as a result of SDS. Transition of Phase I EMS to Phase II EMS continued, with on-going effort to track compliance with programmatic permit/approval commitments and construction permit requirements, and included permitting and compliance requirements in design drawings and specifications, as required, for those work packages still in design.

# 1.0 Introduction

---

## 1.1 Purpose

The purpose of the SDS Permit Compliance Annual Report (PCAR), submitted by Colorado Springs Utilities as SDS Project Manager, is to demonstrate the progress in successfully implementing the commitments identified in the ROD (Reclamation 2009). This PCAR has been prepared to be consistent with the ROD and other permits issued by agencies having jurisdiction over SDS, specifically the following programmatic permits/approvals:

- Bureau of Reclamation Record of Decision for the Southern Delivery System Final Environmental Impact Statement, Record of Decision Reference No. GP-2009-01, March 20, 2009
- El Paso County Location Approvals
  - Planning Commission Resolution U-09-002, March 2, 2010, Southern Delivery System Raw Water Pipelines, Amended by Resolution U-12-001, October 18, 2012
  - Planning Commission Resolution U-09-003, March 2, 2010, Southern Delivery System Finished Water Pipelines, Amended by Resolution U-12-003, October 18, 2012
  - Planning Commission Resolution U-09-004, March 16, 2010, Southern Delivery System Bradley Pump Station
  - Planning Commission Resolution U-09-005, March 16, 2010, Southern Delivery System Upper Williams Creek Reservoir, Amended by Resolution U-12-002, October 18, 2012
  - Planning Commission Resolution U-09-007, March 16, 2010, Southern Delivery System Exchange Flow System, Amended by Resolution U-12-004, October 18, 2012
- Pueblo County Board of County Commissioners Resolution No. P&D 09-22 approving 1041 Permit No. 2008-02, April 21, 2009
- Fountain Creek Watershed, Flood Control and Greenway District (District) Resolution 2010-01, February 26, 2010
- Colorado Department of Public Health and Environment (CDPHE) 401 Certification No. 4224, April 23, 2010, which includes the requirement to provide copies of all other annual reports

Colorado Springs Utilities reviewed all seven of the programmatic permits/approvals that are in place to identify annual reporting requirements of each. The following two programmatic permits/approvals do not specifically include annual reporting requirements.



- Memorandum of Agreement with the State of Colorado, Department of Natural Resources on behalf of the Colorado Division of Wildlife regarding the Fish and Wildlife Mitigation Plan, May 18, 2010
- United States Army Corps of Engineers Clean Water Act Section 404 Individual Permit No. SPA-2005-00131-SCO, April 26, 2010

Colorado Springs Utilities prepared an Environmental Commitment Plan and developed a Phase I Environmental Management System (EMS) to track compliance with the commitments associated with all of the programmatic permits/approvals.

## 1.2 Southern Delivery System Project Overview

SDS is a proposed regional water delivery project that will serve the City of Colorado Springs (via Colorado Springs Utilities), City of Fountain, Security Water District, and Pueblo West Metropolitan District (collectively, the SDS Participants).

The first phase of SDS includes construction of the following facilities:

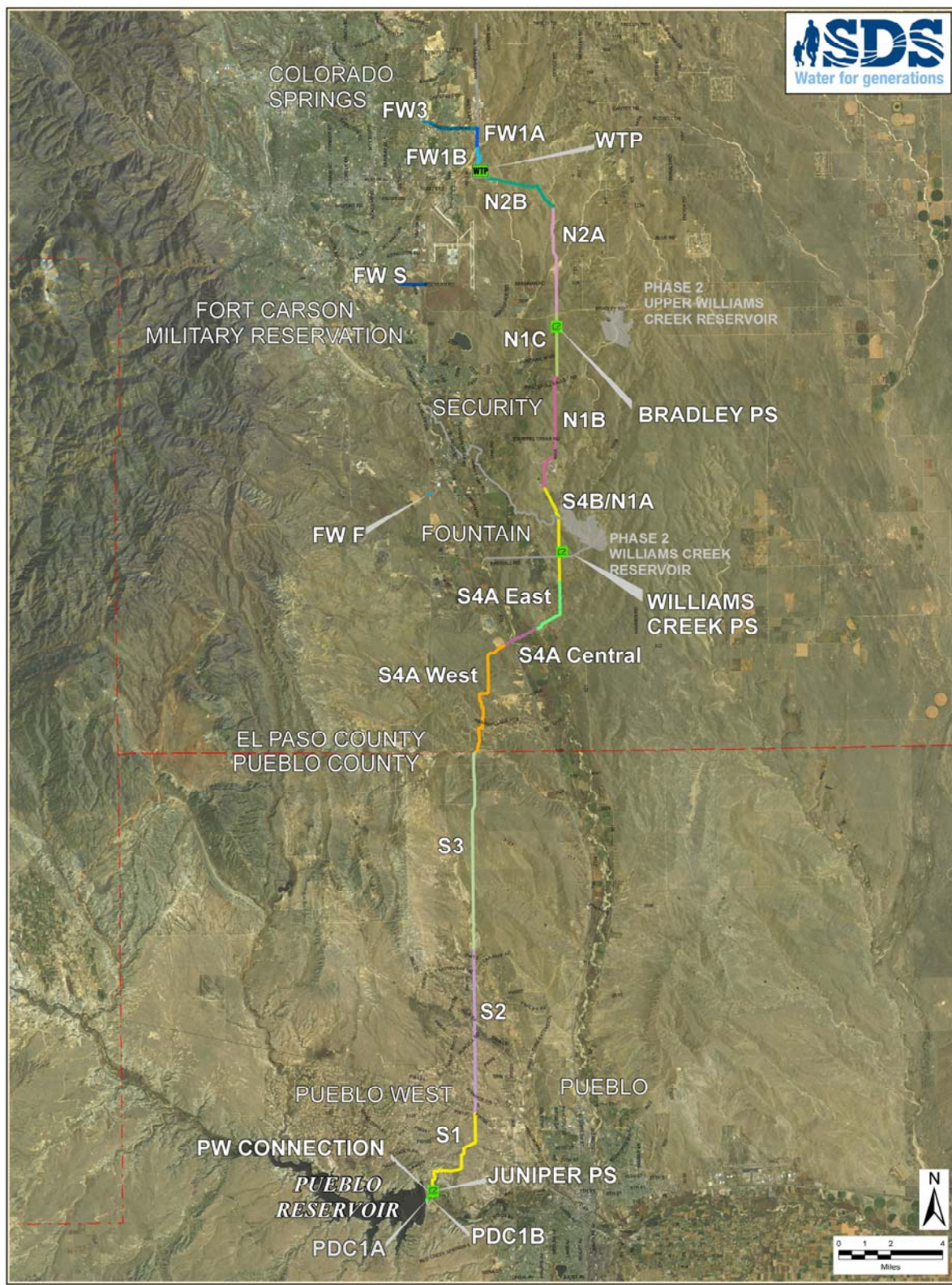
- A 53-mile raw water pipeline (66- and 72-inch diameter)
- Two 78-million-gallon-per-day (mgd) raw water pump stations and one 50-mgd raw water pump station (expandable in Phase 2)
- A water treatment plant (WTP) with a capacity of 50 mgd (expandable in Phase 2)
- Approximately seven miles of finished water pipelines up to 54 inches in diameter

Phase 2 of SDS includes the following:

- A 30,500 acre-feet terminal storage reservoir on upper Williams Creek, Upper Williams Creek Reservoir (UWCR)
- Expansion of the 50-mgd raw water pump station and WTP to 100-mgd capacity
- Expansion of the treated water delivery system
- A 28,000 acre-feet exchange storage reservoir on Williams Creek, Williams Creek Reservoir and exchange conveyance facilities to transfer exchange water to and from Fountain Creek

SDS has been broken down into various work packages. The work packages and the facilities identified above are shown on Figure 1.

FIGURE 1. SOUTHERN DELIVERY SYSTEM WORK PACKAGES AND FACILITIES



## 1.3 SDS Participant Information

Contact details for the SDS Participants and their authorized agent are as follows.

### 1.3.1 SDS Participants

#### Colorado Springs Utilities

(Authorized agent acting on behalf of Participants)

Contact: John Fredell, SDS Program Director  
Plaza of the Rockies, Third Floor  
121 S. Tejon, MC930  
Colorado Springs, CO 80947  
Phone: (719) 668-8037; Fax: (719) 668-8734  
E-mail: jfredell@csu.org

#### Security Water District (Participant)

Contact: Roy Heald, District Manager  
231 Security Blvd.  
Security, CO 80911  
Phone: (719) 392-3475; Fax: (719) 390-7252  
E-mail: r.heald@securitywsd.com

#### City of Fountain (Participant)

Contact: Tom Black, Interim Director of Utilities  
116 S. Main St.  
Fountain, CO 80817  
Phone: (719) 322-2082; Fax: (719) 391-0463  
E-mail: tblack@fountaincolorado.org

#### Pueblo West Metropolitan District (Participant)

Contact: Scott Eilert, Utilities Director  
109 E. Industrial Blvd.  
Pueblo West, CO 80017  
Phone: (719) 547-5044; Fax: (719) 547-2833  
E-mail: seilert@pwmd-co.us

## 1.4 Southern Delivery System Project Regulatory Review Process

SDS has undergone, and continues to undergo, significant regulatory oversight at the federal, state, and local levels. At the federal level, Reclamation has performed extensive and detailed environmental studies as a part of the National Environmental Policy Act (NEPA) process, the culmination of which was a Final Environmental Impact Statement (FEIS) and issuance of a ROD.

The ROD for SDS was issued on March 20, 2009. It identified SDS, as shown on Figure 1, as the Preferred Alternative. SDS has been determined to cause “the least damage to the

biological and physical environment” (Reclamation 2009). The ROD included extensive commitments by the SDS Participants to significant, long-term mitigation measures.

Because SDS crosses wetlands and other waters of the United States, it requires a permit from the USACE under the dredge and fill material permit program established under Section 404 of the federal Clean Water Act. A Section 404 Permit was received for SDS on April 26, 2010. Colorado Springs Utilities has developed new wetlands as compensatory mitigation under the Section 404 Permit, and provided copies of the mitigation plans to the Fountain Creek Watershed, Flood Control, and Greenway District for review. The jurisdictional wetlands mitigation project was reviewed and approved by the USACE and Fountain Creek Watershed, Flood Control, and Greenway District prior to its construction in September 2011.

At the state level, the SDS Section 404 Permit received a Certification under Section 401 of the Clean Water Act from the Colorado Department of Public Health and Environment (CDPHE) on April 23, 2010. In February, 2011, the State Water Quality Control Commission denied a challenge to the CDPHE (Water Quality Control Division) certification and upheld the certification. In April, 2012, the Pueblo County District Court determined that the Commission action was not supported by the administrative record and remanded the certification. The District Court decision is now the subject of an appeal before the Colorado Court of Appeals.

The Colorado Division of Parks and Wildlife (CDOPW) also reviewed SDS, and the SDS Fish and Wildlife Mitigation Plan (FWMP) was prepared collaboratively with CDOPW staff and approved by both the Colorado Wildlife Commission (CWC) and the Colorado Water Conservation Board (CWCB) (Colorado Springs Utilities, City of Fountain, Security Water District, Pueblo West Metropolitan District, and Colorado Division of Wildlife 2010a). A Memorandum of Agreement implementing the FWMP was executed with the CDOPW on May 18, 2010.

At the county and city levels, SDS is subject to a variety of regulatory reviews and associated mitigation requirements, including the following:

- Pueblo County 1041 Permit (No. 2008-002),
- El Paso County Approval of Location and Site Development Plan processes, and
- Land use approval by the Fountain Creek Watershed, Flood Control, and Greenway District (District).

Collectively, these permit conditions include comprehensive and extensive mitigation requirements, which are detailed in the respective resolutions of approval.

## 2.0 Listing of Permit Compliance Reporting Requirements for SDS

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A detailed and specific listing of the permit compliance reporting requirements for SDS for the seven programmatic permits and approvals received for SDS is provided in Attachment 1 – Annual Implementation Progress Matrix.

The Annual Implementation Progress Matrix contains:

- A listing of the environmental commitments for SDS with annual reporting requirements (columns 1 and 2).
- A description of SDS implementation progress towards compliance with each of the commitments (column 3).
- A field to show if additional documentation is included in an attachment to this report (column 4).

Supporting documentation listed in column 4 is provided in the following attachments:

- Attachment 2 - Monthly Average Flow Data from United States Geological Survey (USGS) Gauge Station
- Attachment 3 - Water Quality Monitoring Data
- Attachment 4 - Complaint Log
- Attachment 5 - Emergency Response Log
- Attachment 6 - Log of Work Occurring During Non-Typical Work Hours

## 3.0 Summary of SDS Activities Undertaken During the Reporting Period

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A number of actions have been taken during this reporting period related to the construction of SDS. Some of the key activities during this reporting period include the following:

### **Programmatic**

#### **Jurisdictional Wetlands Mitigation**

The initial construction of the jurisdictional wetlands mitigation, required to offset the permanent impact of 0.23 acres of jurisdictional wetlands by SDS, was completed in September 2011. Construction of the remainder of the wetlands and the surrounding riparian area was completed in April 2012. The wetlands were monitored through the year. The project is located at Clear Spring Ranch and consists of approximately 0.25 acres of wetland plants and another approximate 0.2 acres of surrounding riparian area.

#### **Pueblo Dam Connection (PDC1A)**

SDS construction activities continued at the Pueblo Reservoir Dam in 2012. Activities at Pueblo Dam included installation and maintenance of stormwater best management practices (BMPs), maintenance and removal of a coffer dam, dewatering of the river channel within the coffer dam, construction of the valve house, installation of pipe within river outlet works tunnel and valve house, valve installation, concrete placement of the North Shore structure, and testing. The location of PDC1A is shown on Figure 1.

#### **PDC1B**

Design for PDC1B was completed in March 2012. Construction is scheduled to begin in 2013. The location of PDC1B is shown on Figure 1.

#### **S1 Pipeline**

SDS construction activities began on the S1 Pipeline in January 2012. Activities at S1 have included installation of BMPs, BMP maintenance, rock trenching, pipe delivery, pipe installation, welding, pipe backfill, grading, road rehabilitation, construction of combination air release and vacuum valves (CARVs) and blow-off structures, and dewatering activities. The location of the S1 Pipeline is shown on Figure 1.

#### **S2 Pipeline**

SDS construction activities on the S2 Pipeline continued in 2012. The construction activities included installation and maintenance of BMPs, rock trenching, dewatering activities, delivery of pipe segments, installation of pipe, welding, pipe backfill, grading, road rehabilitation, construction of CARVs and blow-off structures, and hydrostatic testing. In addition, vegetation restoration began, including soil preparation, seeding, mulching, and

installation and testing of an irrigation system. The location of the S2 Pipeline is shown on Figure 1.

### **S3 Pipeline**

SDS construction activities on the S3 Pipeline continued in 2012. The construction activities included installation and maintenance of BMPs, rock trenching, dewatering activities, delivery of pipe segments, installation of pipe, welding, pipe backfill, grading, road rehabilitation, construction of CARVs and blow-off structures, and hydrostatic testing. In addition, vegetation restoration began, including soil preparation, seeding, mulching, and installation and testing of an irrigation system. Colorado Springs Utilities has been working with the landowner along S3 in an effort to address revegetation and land contouring concerns. The location of the S3 Pipeline is shown on Figure 1.

### **S4A East/West**

Design for the S4A East and S4A West Pipelines was completed in August 2012. Construction began in October 2012. Construction activities include installation and maintenance of BMPs, fence installation, clearing and grubbing, grading, sub-cut, trench excavation, pipe delivery, installation of pipe, pipe backfill, welding, dewatering and construction of the blow off assembly. The location of the S4A East and West Pipelines are shown on Figure 1.

### **S4A Central**

Design for the S4A Central Pipeline began in 2012. The location of the S4A Central Pipeline is shown on Figure 1.

### **S4B/N1A/N1B**

SDS construction activities on the S4B/N1A Pipeline continued in 2012. The construction activities included installation and maintenance of BMPs, dewatering activities, delivery of pipe segments, installation of pipe, welding, pipe backfill, grading, construction of CARVs and blow-off structures, and hydrostatic testing. In addition, vegetation restoration began, including soil preparation, seeding and mulching. The location of the S4B/N1A Pipeline is shown on Figure 1.

### **N1C/N2A**

Design for the N1C/N2A Pipeline began in 2012. The location of the N1C/N2A Pipeline is shown on Figure 1.

### **N2B**

Design for the N2B Pipeline began in 2012. The location of the N2B Pipeline is shown on Figure 1.

### **FW1A**

Construction of FW1A was completed in February 2011. In 2012, activities associated with FW1A included permit closeout. The location of the FW1A Pipeline is shown on Figure 1.



### **FW1B**

SDS construction activities on the FW1B Pipeline were concluded in July 2012. The construction activities included installation and maintenance of BMPs, delivery of pipe segments, trenching, trenchless crossing of Highway 24, installation of pipe, welding, pipe trench backfill, and hydrostatic testing. In addition, vegetation restoration began including seeding and mulching. Establishment of a 70% pre-construction vegetation cover was achieved. The location of the FW1B Pipeline is shown on Figure 1.

### **FW3**

Design for the FW3 Pipeline began in 2012. The location of the FW3 Pipeline is shown on Figure 1.

### **WTP**

Design for the SDS Water Treatment Plant (WTP) was completed in September 2012. Construction is scheduled to begin in 2013. The location of WTP is shown on Figure 1.

### **RWPS**

Design for the three raw water pump stations (RWPS), Bradley Pump Station (BPS), Williams Creek Pump Station and Juniper Pump Station, began in 2012. Design is scheduled to be completed and construction is scheduled to begin in 2013. The locations of the 3 RWPS are shown on Figure 1. Work was also initiated on the power supplies for the RWPS. Design for the BPS power supply was completed in September 2012. Construction for the BPS power supply began in October 2012. Construction activities included BMP installation and maintenance, installation of overhead power poles and lines, trench excavation, conduit installation, concrete backfill, trench backfill, trenchless crossings of Bradley Road and Marksheffel Road, and drainage crossings, vault installation, installation of electrical cables, grading, seeding, and mulching.

### **Other**

In addition to the milestones listed above, Colorado Springs Utilities engaged in other initiatives of note during the reporting period, some of which will be on-going through the construction and operation of SDS:

- Continued identification of a location for the wetland construction to mitigate the 12.0 acres of non-jurisdictional wetlands that will be impacted as a result of SDS.
- 60% of Fountain Creek realignment on Clear Spring Ranch that proposes to include approximately 3 acres of non-jurisdictional wetlands mitigation
- Continued transition of Phase I EMS to Phase II EMS, with on-going effort to track compliance with programmatic permit/approval commitments and construction permit requirements.
- Inclusion of permitting and compliance requirements in design drawings and specifications, as required, for those work packages still in design.



- Colorado Springs Utilities, or its selected contractors, continue to obtain a number of construction-related permits. The acquisition of these permits as well as the compliance with these permits is being tracked through the Phase I EMS.
- Colorado Springs Utilities continues to work cooperatively with the City of Colorado Springs, El Paso County and other regional governmental entities as part of a Stormwater Task Force effort. Phase 1 of the Task Force activities, which concluded on January 10, 2013, included the identification by stakeholders of potential stormwater project needs within the area and existing stormwater control budgets. A Citizens Team and a Business Team provided additional information and advice to the Task Force on January 17, 2013. The El Paso County Commissioners decided to proceed forward in the effort, including participation in an outside engineering study of the identified projects, creation of a Citizens Advisory Committee, and the examination of long-term, sustainable stormwater funding options. The Colorado Springs City Council will receive a Task Force briefing on February 11 and decide upon future direction thereafter. In addition, the updated draft drainage criteria manual for Colorado Springs, provisions of which are designed to control peak flows, continues through the public review process, with a goal of Council adoption in late spring/early summer of 2013.
- On December 11, 2012, the Pueblo County Commissioners executed Resolution No. P&D 12-43 pursuant to which a process was agreed upon between the County and SDS for the identification and release of work completed in accordance with the County permit terms and conditions. The close-out process should provide additional clarity as to when successful project completion has been achieved.

## 4.0 References

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- Bureau of Reclamation. 2008. Southern Delivery System Final Environmental Impact Statement. December.
- Bureau of Reclamation. 2009. Record of Decision for the Southern Delivery System Project Final Environmental Impact Statement. Record of Decision Reference No. GP-2009-01. Colorado Department of Public Health and Environment. 2010. Section 401 Water Quality Certification; Colorado 401 Certification No.: 4224; U.S. COE 404 Permit No.: SPA-1995-00131-SCO; Description: Southern Delivery System; Location: El Paso and Pueblo Counties; Watercourse: Arkansas River, Fountain Creek and tributaries; Designation: Reviewable (MA01, MA02, MA03, FO02a, FO02b); Use Protected: (FO04, LA01a, LA01b). April 23
- Colorado Springs Utilities, City of Fountain, Security Water District, Pueblo West Metropolitan District, and Colorado Division of Wildlife. 2010a. Southern Delivery System Fish and Wildlife Mitigation Plan. March 11.
- El Paso County. 2010. Planning Commission Resolution U-09-002. For the Approval of Location of the Southern Delivery System Raw Water Pipeline within the A-5 (Agricultural), PUD (Planned Unit Development), RR - 2.5 (Rural Residential) and RR-5 (Residential Rural) Zone District. March 2.
- El Paso County. 2010. Planning Commission Resolution U-09-003. For the Approval of Location of the Southern Delivery System Finished Water Pipeline within the PUD (Planned Unit Development) Zone District. March 2.
- El Paso County. 2010. Planning Commission Resolution U-09-004. For the Approval of Location of the Southern Delivery System Bradley Pump Station within the RR-5 (Residential Rural) Zone District. March 16.
- El Paso County. 2010. Planning Commission Resolution U-09-005. For the Approval of Location of the Upper Williams Creek Reservoir within the RR-5 (Residential Rural) Zone District. March 16.
- El Paso County. 2010. Planning Commission Resolution U-09-007. For the Approval of Location of the Exchange Flow System within the RR-5 (Residential Rural) Zone District. March 16.
- Fountain Creek Watershed, Flood Control, and Greenway District. 2010. Board of Directors Resolution 2010-01 – Land Use. A Resolution recommending that the El Paso County Planning Commission approve applications by Colorado Springs Utilities and on behalf of the Project Participants for location approvals for the Southern Delivery System located within the Fountain Creek Watershed Management Area and approving those portions of the Southern Delivery System located within the Fountain Creek Corridor. February 26.

Pueblo County. 2009. 1041 Permit No. 2008-002. The Board of County Commissioners of Pueblo County Colorado; A Resolution Approving 1041 Permit No.2008-002 With Terms and Conditions for Construction and Use of a Municipal Water Project Known as the Southern Delivery System within Pueblo County, Colorado. April 21.

State of Colorado. 2010. Memorandum of Agreement by and between the State of Colorado, acting by and through the Department of Natural Resources, for the use and benefit of the Division of Wildlife and Colorado Springs Utilities, acting as the Project Manager for the Southern Delivery System. May 18.

U.S. Army Corps of Engineers. 2010. Department of the Army Permit; Permittee: Colorado Springs Utilities; Permit No. SPA-2005-00131-SCO; Issuing Office: Albuquerque District, U.S. Army Corps of Engineers. April 26.

# Implementation Progress Matrix

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ATTACHMENT 1

Annual Implementation Progress Matrix

Reporting Requirements		CY2012 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
<b>Bureau of Reclamation - Record of Decision</b>			
<b>Environmental Commitments</b>			
p. 11, ¶1	Such contracts will, at a minimum, include a requirement for the SDS Participants to submit to Reclamation an annual compliance report that certifies progress in successfully implementing these commitments in a timely manner as prescribed in this ROD and any contracts.	This Permit Compliance Annual Report is being prepared to demonstrate the progress in successfully implementing the commitments as prescribed in the ROD and the annual reporting requirements found in the other programmatic permits and approvals including: the Pueblo County 1041 Permit, the El Paso County Location Approvals, the CDPHE 401 Water Quality Certification and the Fountain Creek Watershed, Flood Control and Greenway District approval.	No
p. 11, ¶2	The Participants must obtain other significant Federal, State, and local permits, approvals, and agreements for the SDS Project.	The programmatic permits for the Southern Delivery System (SDS) are in place. The selected construction contractors are required through the contract documents to submit copies of all permits acquired. The SDS Participants are tracking the permit acquisition progress for each of the work packages as construction activities commence.	No
p. 11, ¶3	A detailed and specific list of environmental commitments and plan for their implementation will emerge from this coordination process.  The timing of this process is important. Coordination of implementation of the environmental commitment plan will occur prior to executing any contracts for the SDS Project.	An Environmental Commitments Plan was completed and submitted to the Bureau of Reclamation on March 18, 2011.	No
<b>Participants' Commitments: General Commitments</b>			
p. 12, Bullet 1	Comply with all applicable permits, regulations, and laws including but not limited to CDPHE, USCOE 404, and local land use permits obtained for the SDS Project.	Compliance with permit and regulatory requirements is being tracked through the implementation of an Environmental Management System (EMS). In addition, the construction contract documents for each of the work packages include permit and regulatory compliance requirements. The EMS ensures that all applicable actions necessary for compliance are taken in a timely manner.	No
p. 12, Bullet 2	Construct and operate the SDS Project in a manner that does not differ substantially from that evaluated in this FEIS, except under emergency conditions, and unless additional and appropriate environmental investigations are completed by Reclamation and approval is then given to Participants to alter construction or operation of the SDS Project.	The SDS Participants intend to construct and operate the preferred alternative that was identified in the FEIS in a manner that does not differ substantially from that evaluated in the FEIS.	No

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Annual Implementation Progress Matrix

Reporting Requirements		CY2012 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
p. 12, Bullet 3	Develop and implement a head pressure monitoring program on the Joint Use Manifold to isolate effects attributable to the SDS Project and to mitigate those effects if they were to occur. This program will be developed over a 3-year period from the date that water is first delivered from the Joint Use Manifold for the SDS project. Development of the monitoring program will include involvement of all other Joint Use Manifold users.	This commitment is no longer applicable to SDS. The Joint Use Manifold will not be used with the construction of the Pueblo Dam Connection at the North Outlet Works.	No
p. 12, Bullet 4	Develop an integrated adaptive management program for the project that will be coordinated with the Participants' existing monitoring programs and the Environmental Management System discussed in Appendix F of the FEIS. The integrated adaptive management program will be finalized prior to executing any contracts for the SDS project.	An Integrated Adaptive Management Plan (IAMP) has been developed and was submitted to the Bureau of Reclamation on March 18, 2011. The requirements of the IAMP will be coordinated with the development of the Phase II EMS that Colorado Springs Utilities is developing. The requirements of the IAMP are not effective until SDS is operational.	No
<b>Participants' Commitments: Surface Water</b>			
p. 12, Bullet 1	Comply with the Upper Arkansas Voluntary Flow Management Program except during emergency conditions as defined in Section 2.b. of the Memorandum Of Understanding for Settlement of Case No. 04CW129, Water Division 2 (Chaffee County Recreation In-Channel Diversion).	The SDS Participants will comply with the Upper Arkansas Voluntary Flow Management Program.	No
p. 13, Bullet 2	Comply with the Pueblo Flow Management Program pursuant to existing intergovernmental agreements. If Reclamation and the Participants receive credible information that project operations are impairing physical diversion of a senior water right, contrary to Colorado water law, the Participants will immediately initiate discussions among the parties, including the party alleging the impairment of Reclamation, to develop a solution and remedy the impairment in compliance with Colorado water law.	The SDS Participants will comply with the Pueblo Flow Management Program.	No
p. 13, Bullet 3	Participants will consult with Reclamation each year on the average annual flow in Fountain Creek. If the average annual stream flow of Fountain Creek as measured at Pueblo (USGS gauge station number 07106500) exceeds the scope and range of the flow estimated and analyzed in the Final Environmental Impact Statement (see Table 33 of the FEIS), then Participants will coordinate with Reclamation, within their adaptive management plan, to evaluate the cause(s) for the change in flows and determine whether appropriate response actions, such as monitoring and/or mitigation measures, are warranted. Each year, Participants will report to Reclamation the average annual flow in Fountain Creek at Pueblo together with other relevant data.	The average annual flow during this reporting period in Fountain Creek as measured at USGS gauge station number 07106500 was approximately 88.1 cubic feet per second (cfs). Table 33 of the FEIS reported the average annual simulated streamflow at this location under the preferred alternative (Alt 2) as 253 cfs. As the Southern Delivery System was under construction during this reporting period, no flows have been introduced to Fountain Creek as a result of this project. See Attachment 2 for the monthly average flow data from USGS Gauge Station Number 07106500.	Attachment 2 - Monthly Average Flow Data from USGS Gauge Station Number 07106500

ATTACHMENT 1

Annual Implementation Progress Matrix

Reporting Requirements		CY2012 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
p. 13, ¶1	Surface water mitigation measures will resolve adverse effects to physical diversions of senior water rights.	This requirement is a summary statement of the specific surface water mitigation measures described in the three bullets listed above. The SDS Participants are implementing the surface water mitigation measures per the Upper Arkansas Voluntary Flow Management Program and the Pueblo Flow Management Program.	No
<b>Participants' Commitments: Water Quality</b>			
p. 13, Bullet 1	Include water quality monitoring and adaptive management within the integrated adaptive management program (see Participants' General Commitments).	The Monitoring Plan has been completed and was submitted to the Bureau of Reclamation on March 18, 2011.	No
p. 13, Bullet 2	Begin implementing water quality monitoring when construction of the project begins. This will allow about three years of baseline data to be collected before project operations begin.	A Joint Funding Agreement has been executed with the U.S. Geological Survey (USGS) on the water quality monitoring program. Water quality monitoring began in January, 2011.	Attachment 3 - Water Quality Monitoring Data
p. 13, Bullet 3	Submit water quality monitoring data, including trend analyses, for the preceding calendar year to Reclamation by January 31st of the subsequent year.	A Joint Funding Agreement has been executed with the U.S. Geological Survey (USGS) on the water quality monitoring program. Water quality monitoring began in January, 2011. See Attachment 3 for the water quality monitoring data. USGS reports data on a water year basis (October-September). The annual report will present data based on that reporting period.	Attachment 3 - Water Quality Monitoring Data
p. 13, Bullet 4	If the Colorado Department of Public Health and Environment (CDPHE) determines that operation of the SDS Project is causing significant adverse water quality effects, the Participants will coordinate with Reclamation, CDPHE, and other interested parties to evaluate and select measures to mitigate adverse effects.	This requirement is not applicable yet as SDS is under construction and not operational at this time.	No
p. 13, Bullet 5	In the event that operation of the SDS Project causes, or threatens to cause, stream flows in the Arkansas River or other waterways to diminish to low levels that will contribute significantly to elevated concentrations/densities of dissolved selenium, <i>E. coli</i> , or sulfate, the Participants will coordinate with Reclamation, CDPHE, CDOW, and other interested parties to evaluate and select measures to mitigate adverse effects.	This requirement is not applicable yet as SDS is under construction and not operational at this time.	No

ATTACHMENT 1

Annual Implementation Progress Matrix

Reporting Requirements		CY2012 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
p. 13, ¶1	Development and implementation of a water quality monitoring and adaptive management plan will provide a means of detecting changes in water quality, judging whether they are likely caused by operation of the SDS Project, and addressing actual effects in a systematic manner. Additionally, implementation of the geomorphology mitigation measures (below) will reduce suspended sediment and total recoverable iron concentrations in Fountain Creek and the lower Arkansas River.	This requirement is a summary statement of the specific water quality commitments described in the five bullets listed above. The Monitoring Plan, Geomorphic Mitigation Plan and IAMP have been completed. These plans were submitted to the Bureau of Reclamation in March 2011. The plans will be implemented during the construction and operation of the SDS in accordance with this commitment.	No
<b>Participants' Commitments: Geomorphology</b>			
p. 14, Bullet 1	<p>Prepare a geomorphic mitigation plan and secure Reclamation approval prior to executing any contracts for the SDS Project. This plan could include, but is not limited to:</p> <ul style="list-style-type: none"> <li>• Evaluate and consider strategies to remove sediments that reduce the effectiveness of Corps levees located near Fountain Creek at its confluence with the Arkansas River</li> <li>• Evaluate and consider strategies to increase the sinuosity of Fountain Creek at appropriate locations in order to reduce undesirable erosion and sedimentation</li> <li>• Evaluate and consider strategies at appropriate locations along Fountain Creek to reduce undesirable erosion and sedimentation</li> <li>• Select geomorphic mitigation measures for SDS Project effects that are, to the extent practicable, consistent with priority projects identified in the Corps of Engineers' Fountain Creek Watershed Study and the Fountain Creek Corridor Master Plan. Locations where geomorphic mitigation projects could occur include, but are not limited to: <ul style="list-style-type: none"> <li>• Fountain Creek at the Clear Spring Ranch site, directly upstream and downstream of the confluence of Little Fountain Creek and Fountain Creek (approximately 4 miles)</li> <li>• Fountain Creek from upstream of Fountain Boulevard to upstream of Colorado 85/87 at the Sand Creek confluence (approximately 3 miles)</li> </ul> </li> </ul>	<p>A Geomorphic Mitigation Plan was completed and was submitted to the Bureau of Reclamation on March 15. The Bureau of Reclamation approved this plan on April 26, 2011. The intent of the Geomorphic Mitigation Plan is to begin data collection on or about October 15 following the start of project construction, or October 15 three years prior to the SDS commencing operations, whichever is later. Construction activities are not anticipated to be complete until 2016, therefore the monitoring will commence no later than the 2013 reporting period.</p> <p>The Fountain Creek realignment design has progressed with design currently at 60%. Stakeholder outreach regarding this mitigation effort has begun and key stakeholders have been briefed on the status of this project. Construction is expected to begin during the 3rd quarter of 2013.</p>	No
p. 14, Bullet 2	Complete pre-project geomorphic mitigation, including channel stabilization projects and non-structural options such as conservation easements, before the project is operational. Channel stabilization could include, but is not limited to, increasing stream sinuosity, flattening of steep side slopes, installation of grade control structures and use of buried riprap, erosion blankets, and/or vegetative cover for channel stabilization in areas of high and/or erosive velocities.	The SDS Participants have coordinated extensively with Pueblo County regarding the scope of a Fountain Creek dredging project. On August 30, 2010 an agreement was reached by which the SDS Participants will provide approximately \$2.2 million in funding to Pueblo County for the Fountain Creek dredging project. The SDS Participants made this payment to Pueblo County on September 27, 2010.	No
p. 14, Bullet 3	Design and construct an energy dissipation structure that will protect against erosion at the outlet of the pipeline from Williams Creek Reservoir to Fountain Creek.	The design of the Williams Creek Reservoir is anticipated to begin during the period from 2020 to 2025. An energy dissipation structure at the pipe outlet will be incorporated into the design.	No



ATTACHMENT 1

Annual Implementation Progress Matrix

Reporting Requirements		CY2012 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
p. 14, Bullet 4	Evaluate and implement appropriate future geomorphic stabilization projects, if such future projects are determined to be necessary after the project is operational.	This requirement is not applicable yet as SDS is under construction and not operational at this time. It is yet to be determined if project operations will necessitate such projects.	No
p. 14, ¶1	When implemented, these recommendations will mitigate potential adverse effects on geomorphology by avoiding or minimizing effects of return flow discharges through an energy dissipation structure, compensating for anticipated effects, and responding to effects identified after project operations begin.	This requirement is a summary statement of the specific water quality commitments described in the five bullets listed above. A Geomorphic Mitigation Plan has been completed and will be implemented during the construction and operation of SDS in accordance with this commitment.	No
<b>Participants' Commitments: Aquatic Life</b>			
p. 15, Bullet 1	Submit a proposed wildlife mitigation plan to the Colorado Wildlife Commission (Wildlife Commission) pursuant to C.R.S. 37-60-122.2. This proposal will include actions the Participants propose to mitigate impacts that the SDS Project may have on fish and wildlife. As required by that statute, the Wildlife Commission will evaluate the probable impact of the project on fish and wildlife and, if the Participants and Wildlife Commission cannot agree upon reasonable mitigation, the Wildlife Commission will make recommendations to the Colorado Water Conservation Board (CWCBC) regarding what it believes to be reasonable mitigation actions. If the Participants and the Wildlife Commission agree on a mitigation plan, the Wildlife Commission will submit that agreement to the CWCBC, which must adopt the agreement as the state's official position. If the Participants and the Wildlife Commission do not reach agreement on a mitigation plan, the CWCBC will consider the plan submitted by the Participants and the recommendations of the Wildlife Commission, which then becomes the State's official position, or submit its own recommendations to the Governor, who will ultimately determine the state's official position on the proposed wildlife mitigation plan.	A Wildlife Mitigation Plan was developed in cooperation with the Colorado Division of Wildlife, which was then submitted to the Colorado Wildlife Commission pursuant to C.R.S. 37-60-122.2. The Colorado Wildlife Commission approved the Wildlife Mitigation Plan and the Colorado Water Conservation Board adopted it. A Memorandum of Agreement between the SDS Participants and the Colorado Department of Natural Resources, on behalf of the Colorado Division of Wildlife, was executed May 18, 2010.	No
p. 15, Bullet 2	In the event that the operation of the SDS Project causes, or threatens to cause, stream flows in Fountain Creek or the Arkansas River to diminish to low levels that could contribute significantly to impairment of aquatic life, coordinate with Reclamation, CDPHE, CDOW and other interested parties to evaluate and select measures to mitigate adverse effects.	This requirement is not applicable yet as SDS is under construction and not operational at this time.	No

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p. 15, Bullet 3	Evaluate and consider participation in CDOW fish hatchery programs.	The Memorandum of Agreement between the SDS Participants and the Colorado Department of Natural Resources, on behalf of the Colorado Division of Wildlife (CDOW), includes a commitment that Colorado Springs Utilities will either construct 7.5 acres of fish rearing ponds for warm water species or provide \$7.5M in funding to CDOW for this construction. The MOA stipulates that construction of four (4) acres of these ponds shall be completed no later than three years prior to the date Upper Williams Creek Reservoir is placed in service. The construction of the remaining 3.5 acres of rearing ponds shall be completed no later than five (5) years after Upper Williams Creek Reservoir is in service.	No
p. 15, Bullet 4	Monitor the effects of the operation of the SDS Project upon aquatic life in Fountain Creek and the Arkansas River between Pueblo Dam and the Las Animas Gage. Aquatic sampling will be conducted once per year at up to 10 locations. Monitoring methods and locations will be identified in the proposed wildlife mitigation plan that will be submitted to the Colorado Wildlife Commission pursuant to C.R.S. 37-60-122.2. Use the information from this monitoring in the adaptive management program for the SDS Project.	This requirement is not applicable yet as SDS is under construction and not operational at this time.	No
p. 15, ¶1	When implemented, these recommendations will mitigate potential adverse effects on aquatic life by avoiding or minimizing effects, compensating for anticipated effects, and detecting and responding to effects identified after project operations begin.	This requirement is a summary statement of the specific aquatic life commitments described in the four bullets listed above. The SDS Participants will implement the Fish & Wildlife Mitigation Plan as well as the agreements from the MOA with the Colorado Department of Natural Resources during the construction and operation of SDS.	No
<b>Participants' Commitments: Wetlands, Waters, and Riparian Vegetation</b>			
p. 15, Bullet 1	Design final alignments and facilities to avoid and minimize wetland impacts.	The pipeline alignments and facilities are designed in accordance with the information that was submitted and approved by the U.S. Army Corps of Engineers with the individual 404 permit application for SDS. The requirements of the 404 permit are included in the construction contract document for each work package, as applicable.	No

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p. 15, Bullet 2	Assess alternative construction methods for pipeline crossings (i.e., directional drilling v. open cut) to minimize wetland and stream impacts.	Alternative construction methods for pipeline crossings were considered during the development of the individual 404 permit application for the SDS. The final design of pipeline crossings is in accordance with the information provided in the individual 404 permit where impacts to jurisdictional waters were described.	No
p. 16, Bullet 3	Mitigate impacts to jurisdictional and non-jurisdictional wetlands in areas of temporary, short-term effects such as pipeline crossings, on-site at the place of disturbance with similar wetlands and soils to replace existing wetland functions and values.	The construction contract documents for each work package, as applicable, include the 404 permit Nationwide Permit (NWP) 12 requirements for all temporary, short-term effects to jurisdictional and non-jurisdictional wetlands. The impacts will be mitigated on-site through the implementation of the NWP 12 requirements.	No
p. 16, Bullet 4	Mitigate all unavoidable, permanent impacts to jurisdictional and non-jurisdictional wetlands with compensatory wetlands that replace existing wetland functions and values. Compensatory wetland mitigation will likely occur at the Clear Spring Ranch site on Fountain Creek downstream of the City of Fountain.	Colorado Springs Utilities procured engineering design services for the compensatory wetland mitigation project at the Clear Spring Ranch site. The SDS Participants presented the final design for Reclamation and USACE review and approval in April 2011. The jurisdictional wetlands mitigation project was constructed in September 2011 and completed in April 2012. Approximately 3 acres of non-jurisdictional wetlands mitigation will be included in the Fountain Creek realignment.	No
p. 16, Bullet 5	Control Tamarisk that may establish around newly constructed reservoirs.	This requirement is not applicable yet as no reservoir construction has commenced for SDS during this reporting period.	No
p. 16, Bullet 6	Evaluate and consider a strategy to increase the sinuosity of Fountain Creek at appropriate locations in order to create wetlands areas.	The SDS Participants will consider options to increase the sinuosity of Fountain Creek at the Clear Springs Ranch site in order to create wetland areas with the design of the compensatory wetland mitigation project. The Fountain Creek realignment design has progressed with design currently at 60%. Stakeholder outreach regarding this mitigation effort has begun and key stakeholders have been briefed on the status of this project. Construction is expected to begin during the 3rd quarter of 2013.	No
p. 16, Bullet 7	Evaluate and consider the construction and maintenance of new areas of wetlands along Fountain Creek in order to participate in wetlands banking programs. Evaluate and consider cooperation with Colorado agencies to expand such a wetlands creation process.	The USACE verbally denied Colorado Springs Utilities the opportunity of a wetland banking partnership with Colorado agencies, stating that Colorado Springs Utilities cannot share the umbrella of a wetland banking tool. Therefore, there is no incentive for Colorado Springs Utilities and another agency to work together under the intent of this condition.	No

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p. 16, ¶1	Mitigation plans for jurisdictional and non-jurisdictional wetlands will be submitted for approval by the Corps of Engineers and Reclamation, respectively. All design and planning measures for wetlands, waters, and riparian vegetation will be completed before any contracts for the SDS Project.	Mitigation plans for jurisdictional and non-jurisdictional wetlands were submitted for approval by the USACE and reclamation prior to construction of PDC1A. Colorado Springs Utilities procured engineering design services for the compensatory wetland mitigation project at the Clear Spring Ranch site. The SDS Participants presented the final design for Reclamation and USACE review and approval in April 2011. The jurisdictional wetlands mitigation project was constructed in September 2011.	No
p. 16, ¶2	By reviewing the location of wetlands during final design, effects on wetlands can be avoided and minimized. Specifically, the pipeline construction corridors through wetlands will be reduced to the minimum width practicable. Similarly, construction methods that do not involve trenching through a wetland will avoid impacts. Wetlands mitigated in place and off-site will replace affected wetlands on a 1:1 ratio and will provide similar functions and values. The 404 permitting process is ongoing and the final off-site mitigation ration for jurisdictional wetlands for the 404 permit has not yet been determined.	This requirement is a summary statement of the specific wetlands, waters and riparian vegetation commitments described in the seven bullets listed above. The pipeline alignments and facilities are being designed in accordance with the information that was submitted and approved by the U.S. Army Corps of Engineers with the individual 404 permit application for SDS, as applicable. Wetland impacts were minimized. The requirements of the 404 permit are included into the construction contract document for each work package, as applicable.	No
<b>Participants' Commitments: Vegetation</b>			
p. 16, Bullet 1	Prior to final design, review locations of Needle and Thread grass -Blue Grama Grasslands, high quality shrublands and woodlands, and other areas with desirable vegetation to determine design changes within the current study area that will avoid and minimize impacts.	Pre-construction wildlife and vegetation surveys are being completed as part of the final design for each of the work packages. The results of these surveys are being incorporated into the construction contract documents as necessary.	No
p. 16, Bullet 2	Replace mature trees (diameter at breast height of 12 inches or greater) within construction areas at a 1:1 ratio with the same or similar native species with available nursery container stock or pole plantings as soon as practicable after construction activities have ended.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 16, Bullet 3	For 1 year after construction, monitor the construction areas to determine if appropriate native vegetation is establishing. If native vegetation is not establishing, the site will be reseeded with appropriate species.	Revegetation efforts have begun or been completed on the S2, S3, S4B/N1A, FW1A, and FW1B pipeline work packages. All of these work packages are being monitored.	No
p. 16, Bullet 4	In the appropriate season prior to construction, survey potential construction areas with known populations of dwarf milkweed and other plant species of concern, to locate areas where impacts can be avoided and minimized to the extent practicable with design changes within the current study area. After identifying populations to avoid, mark populations within or nearby the construction easement as environmentally sensitive so that workers avoid inadvertent impacts.	Pre-construction wildlife and vegetation surveys are being completed for each of the work packages. The results of these surveys are being incorporated into the construction contract documents as necessary.	No
p. 17, Bullet 5	During construction, wash major construction equipment before it enters the site so that noxious weeds are not spread from other construction sites.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 17, Bullet 6	Use certified weed-free mulch after seeding construction areas.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No

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p. 17, Bullet 7	Reseed construction areas with comparable native vegetation as soon as practicable after disturbance, using seed that does not contain any noxious weed seed.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 17, Bullet 8	Monitor construction areas for 3 years after construction to assess if noxious weeds have invaded the site. If noxious weeds are present, weed control plans will be formulated and completed.	As part of the pre-construction vegetation surveys that are completed for each work package, a noxious weed survey is conducted. The noxious weed survey includes recommended weed control methods. This information is being incorporated into the contract documents. Monitoring of construction areas will continue for three years after construction to ensure that any necessary weed control is performed.	No
p. 17, Bullet 9	Because the project may indirectly increase the spread of tamarisk, the Participants will work with the Colorado Department of Agriculture's Colorado Noxious Weed Management Team on tamarisk issues in the Arkansas Valley including submitting a request for partnership evaluation.	The Fish and Wildlife Mitigation Plan has identified the inlet area at the Pueblo Reservoir as an area of specific interest and identified the Colorado Department of Agriculture's Colorado Noxious Weed Management as a consulting agency.	No
p. 17, ¶1	Impacts to plant species and communities of concern and other sensitive vegetation areas can be avoided and minimized during final design and implementation. Because mitigation measures such as transplanting of individuals are often unsuccessful, avoidance and minimization will ensure survival, especially of plant species of concern. Seeding disturbed areas, replacing mature trees, and controlling noxious weeds will replace existing vegetation types and structural diversity and will ensure that high quality habitat remained.	As described in the previous nine responses, numerous measures are being implemented to minimize potential impacts to plant species and communities of concern and other sensitive vegetation areas. For this item and the previous nine, no concerns have been identified to date.	No
<b>Participants' Commitments: Wildlife</b>			
p. 17, Bullet 1	Submit a proposed wildlife mitigation plan to Colorado Wildlife Commission pursuant to C.R.S. 37-60-1212.2 as described above.	A Wildlife Mitigation Plan was developed in cooperation with the Colorado Division of Wildlife , which was then submitted to the Colorado Wildlife Commission pursuant to C.R.S. 37-60-122.2. The Colorado Wildlife Commission approved the Wildlife Mitigation Plan and the Colorado Water Conservation Board adopted it. A Memorandum of Agreement between the SDS Participants and the Colorado Department of Natural Resources, on behalf of the Colorado Division of Wildlife was executed May 18, 2010.	No
p. 17, Bullet 2	Promptly revegetate all disturbed areas with native species that provide species diversity and food and cover for large game and wildlife habitat.	This commitment is being incorporated into the revegetation contract documents for each of the work packages, as applicable.	No
p. 17, Bullet 3	Conduct clearance surveys in suitable habitat for state-listed species following standard protocols, as available, prior to construction (e.g., CDOW undated).	The SDS Participants are completing pre-construction wildlife and vegetation surveys as part of the final design for each of the work packages. The results of these surveys are being incorporated into the construction contract documents as necessary.	No

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Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
p. 17, Bullet 4	Conduct raptor nest surveys prior to construction and impose seasonal restrictions to surface activity within recommended buffers (generally 1/4 to 1/2 mile) around active raptor nest sites and heron rookeries during construction.	Pre-construction raptor nest and heron rookery surveys are being completed for each of the work packages. The results of these surveys are being incorporated into the construction contract documents as necessary.	No
p. 17, Bullet 5	Consult with CDOW and U.S. Fish and Wildlife Services' Migratory Permit Bird Office to develop mitigation for unavoidable loss of raptor nests. Options may include constructing artificial nests in suitable habitat or enhancing prey habitat.	The following protocol identified in the Fish and Wildlife Plan will be used during construction of SDS: If a nest is detected during the pre-construction raptor nest survey, Colorado Springs Utilities will coordinate with Colorado Division of Wildlife and USFWS to develop mitigation for unavoidable raptor nest loss. A nest has been identified in one of the pipeline alignments and CDOW was consulted as a lead agency. A raptor nest mitigation plan was submitted and approved and Colorado Springs Utilities is in the process of mitigating the nest. A nest was installed at Clear Spring Ranch.	No
p. 17, Bullet 6	Develop construction schedules to avoid impacts to nesting migratory birds. If construction is scheduled to occur during the nesting season (April 1 through August 31) in areas where migratory birds may nest, a qualified biologist will conduct a nesting bird survey prior to the commencement of construction activities to determine the presence of migratory birds and their nests. If an active nest is detected, a buffer zone between the nest and the limit of construction will be flagged and avoided during the nesting season, or construction will be scheduled outside of the nesting season.	The following protocol will be used during construction of SDS: If an active nest is detected during the pre-construction raptor nest survey, Colorado Springs Utilities will coordinate with Colorado Division of Wildlife and the construction contractor to ensure a buffer zone between the nest and the limit of construction is identified and the area avoided during the nesting season, or construction will be scheduled outside of the nesting season.	No
p. 18, Bullet 7	Conduct pre-construction surveys for swift fox den sites within appropriate habitat along the pipeline corridor and proposed reservoir sites. Avoid surface disturbance within 1/4 mile of active den sites while young are den-dependent (March 15 -June 15).	Pre-construction wildlife and vegetation surveys are being completed as part of the final design for each of the work packages. The results of these surveys are being incorporated into the construction contract documents as necessary.	No
p. 18, Bullet 8	Restrict pesticides for rodent control within swift fox overall range.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 18, Bullet 9	Mitigate impacts to state-listed amphibian species by avoiding, minimizing, and mitigating wetland effects as described above.	The 404 Individual Permit, the 404 Compensatory Wetland Mitigation Plan and the Fish and Wildlife Mitigation Plan will be followed.	No
p. 18, Bullet 10	Impose seasonal restrictions on construction to avoid sensitive large game winter habitat (from first large snowfall to summer green-up).	Pre-construction wildlife and vegetation surveys are being completed as part of the final design for each of the work packages. The results of these surveys are being incorporated into the construction contract documents as necessary.	No
p. 18, Bullet 11	Install wildlife crossovers (trench plugs) during pipeline construction with ramps on each side at a maximum of 1/4 mile intervals and at well-defined game trails.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 18, Bullet 12	Create additional nesting habitat or nest boxes in nearby trees for the Lewis' woodpecker when nest trees are destroyed.	Pre-construction wildlife and vegetation surveys are being completed as part of the final design for each of the work packages. No Lewis' woodpecker nests have been identified to date.	No

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p. 18, ¶1	By replacing vegetation including structural diversity, the long-term effects on wildlife will be reduced by allowing wildlife to return to disturbed areas. Pre-construction surveys will identify wildlife use at the time of construction and allow for planning for avoidance and minimization. Imposing seasonal and/or daily restrictions on construction will enable wildlife to use important habitat, especially during breeding and other critical periods. Wildlife crossovers installed within the pipeline trench will facilitate wildlife passage and provide escape routes for wildlife trapped within the trench, thereby reducing mortality.	As described in the previous twelve responses, numerous measures are being implemented to minimize potential impacts to wildlife. These measures have been incorporated in the construction contract documents. Measures have been implemented and some measures, such as ramps in the trenches have been placed at shorter intervals than required.	No
<b>Participants' Commitments: Recreation</b>			
p. 18, Bullet 1	During short-term construction activities that require trail closures of developed recreational trails, designate a safe and reasonable detour around the project site. Post signs directing trail users.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 18, Bullet 2	Work with the local municipality to establish alternate trails with consistent width, surfacing, and signage.	Colorado Springs Utilities is coordinating with affected local municipalities as needed to identify temporary alternate trails to be used or constructed during construction.	No
p. 18, Bullet 3	Within developed parks with temporary effects, commit to full reclamation of the impact area by replacing turf, irrigation systems, and other facilities that could be affected. Provide follow-up monitoring and maintenance for 1 year to ensure that reclamation efforts are successful.	There were no temporary effects to developed parks as a result of SDS construction this year. This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 18, Bullet 4	In developed park areas with permanent, above ground SDS Project facilities, reconfigure park facilities that will be directly affected and visually screen SDS Project facilities from other park uses with vegetation, berming or attractive fencing.	There were no permanent, above ground SDS Project facilities constructed in developed park areas during this reporting period.	No
p. 18, Bullet 5	Seek opportunities to enhance angling, boating, or other recreation opportunities at Lake Henry, Lake Meredith, and Holbrook Reservoir so that they are less vulnerable to water level fluctuations. Work with the CDOW to identify priority projects and include them in a proposed wildlife mitigation plan to the Colorado Wildlife Commission pursuant to C.R.S. 37-60-122.2 as above.	A Memorandum of Agreement between the SDS Participants and the Colorado Department of Natural Resources, on behalf of the Colorado Division of Wildlife, which adopted the Fish and Wildlife Mitigation Plan, was executed May 18, 2010.	No
p. 19, ¶1	The proposed mitigation measures will reduce the impact of project facility construction on trail users. They will also reduce the short- and long-term impacts of project facilities on park infrastructure, vegetation, aesthetics, and recreation experiences. Collaboration with the CDOW to enhance fishing and boating opportunities may result in such improvements to recreation at Lake Henry, Lake Meredith, and Holbrook Reservoir.	As described in the previous five responses, numerous measures are being implemented to minimize potential impacts to recreation opportunities. For this item and the previous five, no concerns have been identified to date.	No

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<b>Participants' Commitments: Socioeconomics and Land Use</b>			
p. 19, Bullet 1	Acquire properties and easements through voluntary, willing participant agreements to the maximum extent practicable.	Colorado Springs is coordinating with individual landowners to acquire properties and easements through voluntary negotiations to the maximum extent practicable.	No
p. 19, Bullet 2	Develop a construction management plan to outline best management practices to minimize impacts to surrounding properties and submit plan to Reclamation for approval prior to construction.	A Socioeconomic Construction Management Plan has been completed and was submitted to the Bureau of Reclamation on March 15, 2011. The Bureau of Reclamation approved this plan on April 26, 2011.	No
p. 19, ¶1	Adverse short-term effects on landowners with parcels that will contain SDS features will be offset through mutually agreed upon compensation. The land use mitigation measures will minimize disturbances to properties near the project during construction or minimize land use changes and conflicts.	A Socioeconomic Construction Management Plan has been completed and was submitted to the Bureau of Reclamation on March 15, 2011. The Bureau of Reclamation approved this plan on April 26, 2011. The plan provided for appropriate compensation and mitigation.	No
<b>Participants' Commitments: Cultural Resources</b>			
p. 19, Bullet 1	Comply with the requirements of the Programmatic Agreement between Reclamation, the ACHP, Colorado Springs, and the Colorado SHPO (Appendix I of the FEIS).	The requirements of the Programmatic Agreement are referenced or included in the construction contract documents for each work package.	No
p. 19, ¶1	Development of the project alternatives will result in impacts to non-renewable historic properties. As a result, it will be necessary to implement a mitigation plan in an effort to resolve any adverse effects. Mitigation may be accomplished through avoidance, implementation of protective measures, or data recovery. If avoidance and preservation are not possible, a data recovery plan may be used to collect and analyze significant information, thus preserving that information. Data collection as a mitigation measure should only be implemented when other means to protect or preserve historic properties have been exhausted or are not feasible. Within the data recovery plan, specific research problems concerning scientific, humanistic, and cultural concerns will be developed. Research also will focus on problems in prehistoric and historic archaeological methods and theory. Ultimately, the data collected likely will provide information regarding the cultures that have occupied the area in the past.	Colorado Springs Utilities prepared a Treatment Plan which addresses how mitigation will be determined for each eligible or potentially eligible cultural resource site. The Treatment Plan was executed in June 2011.	No



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<b>Participants' Commitments: Indian Trust Assets</b>			
p. 19, ¶1	Continue consultation with Native American Tribes in accordance with the Programmatic Agreement. Under the Agreement, Reclamation and the SDS Participants will coordinate with the tribes to identify and mitigate impacts to any traditional cultural properties or resources.	The requirements of the Programmatic Agreement are referenced or included in the construction contract documents for each work package.	No
<b>Participants' Commitments: Noise and Vibration</b>			
p. 19, Bullet 1	Construction equipment used by contractors shall function as designed and shall conform to applicable noise emission standards.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 19, Bullet 2	Generally adhere to project work hour restrictions (7 a.m. to 7 p.m.) within 500 feet of residences, hospitals, schools, churches, and libraries. Work hours may need to be extended from time to time in order to expeditiously restore traffic flow or public access.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 3	Restrict access to construction areas so that the public could not be in close proximity to loud equipment or blasting.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 4	House project operating equipment (e.g. pump stations) in structures designed to minimize radiated noise outside the structure, and will meet local noise ordinance requirements.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, ¶1	By following existing standards, restricting work hours and access to construction areas, and insulating new noise within structures, noise effects will be minimized by maintaining acceptable noise levels and limiting the number of people exposed to increased noise levels.	As described in the previous four responses, these commitments are being incorporated into the construction contract documents to minimize potential construction and operation impacts due to noise and vibration. SDS inspectors regularly visit all active sites.	No
<b>Participants' Commitments: Visual Resources</b>			
p. 20, Bullet 1	Vegetate earthen dam faces with native herbaceous plants to match the adjacent undisturbed prairie plant communities.	This requirement is not applicable yet as the design of the Upper Williams Creek and Williams Creek Reservoirs did not begin during this reporting period.	No
p. 20, Bullet 2	Revegetate and/or landscape with plants, all disturbances associated with the construction of all facilities.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 3	Restore as many existing grades as practicable following pipeline excavations.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No

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p. 20, Bullet 4	Enclose pump stations and well equipment in structures matching the architectural characteristics of the surrounding structures.	Colorado Springs Utilities has coordinated with the Bureau of Reclamation and Pueblo County representatives regarding the proposed architecture for the Juniper Pump Station located at Pueblo Reservoir. On September 20, 2012 and November 1, 2012, Colorado Springs Utilities met with representatives of Pueblo County, Colorado State Parks and the Bureau of Reclamation to present the final architectural and landscape plans for the Juniper Pump Station. On November 8, 2012, Colorado Springs Utilities met with Pueblo County to present the final architectural design of the Juniper Pump Station. On November 13, 2012 the Pueblo County Board of County Commissioners(BOCC) passed and adopted Pueblo County Resolution No. 12-270 appointing Pueblo County's Director of Planning and Development, Joan Armstrong, to be Pueblo County's representative to participate in the final selection of the architecture and landscaping for the Juniper Pump Station along with representatives of Colorado State Parks and the Bureau of Reclamation. The resolution also approved the final stage of the design consisting principally of the exterior treatments and architecture of the proposed pump station, including the colors and building materials to be used, and the landscaping immediately around the proposed structure.	No
p. 20, Bullet 5	Construct powerlines with non-specular (not shiny) wire, non-reflective and opaque insulators, and light-colored, non-reflective finished poles.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 6	Reclaim construction access roads and staging areas by restoring existing grade and revegetating the area of disturbance.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 7	Apply water with standard construction practices to control airborne fugitive dust within construction areas.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 8	Install baffles on construction lighting fixtures to direct light onto the construction activity only in locations where safety is a concern, scenic quality will be affected, or near occupied homes and businesses.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, ¶1	Restoring existing grades, revegetating disturbed areas, using architectural styles consistent with the area, and designing powerlines to have low visibility will minimize the visual contrast between the surrounding areas and will reduce the visibility of disturbance or new structures from observation points. Reducing airborne fugitive dust and construction lighting will reduce the area affected during construction.	As described in the previous eight responses, these requirements are being incorporated into the designs and construction contract documents for each work package to minimize potential impacts to visual resources. For this item and the previous eight, no concerns have been identified to date.	No
<b>Participants' Commitments: Traffic</b>			
p. 20, Bullet 1	Use trenchless construction to the extent practicable when construction features cross railroad lines, state highways, county roadways in densely populated areas, and major city roadways in densely populated areas.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 2	Prepare traffic control plans for approval by state and local traffic authorities and followed by contractors during construction.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No

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p. 20, Bullet 3	Construct traffic signage, signals, acceleration, and deceleration lanes as directed by state and local traffic authorities for access to reservoir sites, treatment plants, and pump stations.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 4	Construct improvements to existing access roads or construction of temporary alternate access roads to reservoir sites, treatment plants, and pump stations as directed by state and local traffic officials.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 5	Modify or reconstruct bridges when the load limits are not adequate for construction of the SDS Project and other access routes are not reasonable.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, ¶1	When implemented, these recommendations will mitigate potential adverse effects on traffic by minimizing delays and promoting traffic safety.	As described in the previous five responses, these commitments are being incorporated into the construction contract documents for each work package to minimize potential construction and operations impacts to traffic flow patterns. For this item and the previous five, no concerns have been identified to date.	No
<b>Participants' Commitments: Soils</b>			
p. 21, Bullet 1	Minimize the area of disturbance to defined construction limits and limit the time bare soil is exposed.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 2	Contain soils within the construction area through temporary sediment control measures such as silt fences, sediment logs, trenches, and sediment traps.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 3	Remove woody vegetation prior to topsoil salvage and, to the extent possible, salvage topsoil within tree stump roots.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 4	Use topsoil salvage methods including windrowing topsoil at the limits of construction and pulling the soil back on slopes during reclamation.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 5	Apply topsoil, soil amendments, fertilizers, and mulches as appropriate, and seed selectively during favorable plant establishment climate conditions to match site conditions and revegetation goals.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 6	To the extent practicable, avoid irrigated lands during final design.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 7	To the extent practicable, allow continued use of lands crossed by project facilities after construction.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 8	Where the proposed pipeline crosses prime farmland soils, develop a soils handling plan that separates the top 6 inches and the soils between 6 and 36 inches for subsequent reclamation.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, ¶1	Proposed mitigation measures will reduce short-term and long-term losses of soil and soil productivity. Redistribution of topsoil to soil-deficient areas will increase soil productivity in those areas. Topsoil, soil amendments, fertilizers, and mulches will increase productivity and help establish cultivated vegetation and crops. A soils handling plan for prime farmland soils will ensure high quality topsoil is preserved and distributed properly.	As described in the previous eight responses, these commitments are being incorporated into the construction contract documents for each work package to minimize potential soil erosion and loss during construction. For this item and the previous eight, no concerns have been identified to date.	No

ATTACHMENT 1

Annual Implementation Progress Matrix

Reporting Requirements		CY2012 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
<b>Participants' Commitments: Air Quality</b>			
p. 21, Bullet 1	Develop and implement standard control practices, such as watering, to minimize particulate and dust emissions from construction work sites as specified in the fugitive dust control plan.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 2	Ensure construction equipment (especially diesel equipment) meets opacity standards for operating emissions.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 3	Promptly revegetate disturbed areas.	The SDS Participants are incorporating this commitment into the construction contract documents for each of the work packages, as applicable. The revegetation contractor coordinates with the construction contractor to begin revegetation efforts following substantial completion of each construction project. Revegetation efforts have begun or been completed on the S2, S3, S4B/N1A, FW1A, and FW1B work packages.	No
p. 21, ¶1	The proposed mitigation measures will reduce both short-term and long-term effects on air quality by following standards on construction equipment and minimizing fugitive dust.	As described in the previous three responses, these commitments are being incorporated into the construction contract documents for each work package to minimize potential air quality impacts during construction. For this item and the previous three, no concerns have been identified to date.	No
<b>Participants' Commitments: Hazardous Materials</b>			
p. 22, Bullet 1	Remove solid waste and properly dispose of at a permitted solid waste disposal facility prior to construction of project facilities at the site.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable. Contractors are meeting all solid waste and disposal requirements.	No
p. 22, Bullet 2	Inspect the ground surface beneath the solid waste for evidence of hazardous material or petroleum product spills such as soil staining and unusual odors or colors.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 22, Bullet 3	If evidence of a spill or spills is noted, delineate the extent of the spill by laboratory analysis and excavate any contaminated soils and properly dispose of at a permitted waste disposal facility.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 22, Bullet 4	If soil and/or ground water contamination is encountered during construction of project facilities, implement mitigation procedures to minimize the risk to construction workers and to the future operation of the project.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 22, ¶1	The proposed mitigation measures will identify areas of potential contamination from hazardous materials and will remediate the soil and ground water if any contamination was identified.	As described in the previous four responses, these commitments are being incorporated into the construction contract documents for each work package to minimize potential for a hazardous materials spill. For this item and the previous four, no concerns have been identified to date.	No

ATTACHMENT 1

Annual Implementation Progress Matrix

Reporting Requirements		CY2012 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
<b>El Paso County - Location Approvals</b>			
Final Resolution, Annual Report Requirement	This approval of location shall be subject to annual reporting by the applicant on January 31 annually and review by Development Services Department to determine compliance with all applicable requirements and standards of the El Paso County regulations and the conditions and safeguards imposed upon the approval of location by the Planning Commission. Upon completion of each periodic review, the Development Services Department shall forward its report and any recommendations to the Planning Commission, Board of County Commissioners and the holder of the approval of location. The annual report shall include:	This Permit Compliance Annual Report is being prepared to demonstrate the progress successfully implementing the commitments as prescribed in the ROD and the annual reporting requirements found in the other programmatic permits and approvals including: the Pueblo County 1041 Permit, the El Paso County Approval of Locations, the CDPHE 401 Water Quality Certification and the Fountain Creek Watershed, Flood Control and Greenway District approval.	No
Annual Report Requirement, Sub-Bullet a	Evaluation of compliance with El Paso County conditions of approval	Compliance with the conditions of approval is being documented through the Site Development Plan processes for each work package. The Site Development Plan was approved for finished water pipeline segment FW1A on September 8, 2010, for the S4B/N1A pipeline on April 27, 2011, for the N1B pipeline on July 18, 2011, the Williams Creek Pump Station on July 18, 2011, the FW1B pipeline on August 17, 2011, the Bradley Pump Station Power Supply on October 11, 2012, and the S4A East and West Pipeline on October 18, 2012.	No
Annual Report Requirement, Sub-Bullet b	Integrated Adaptive Management Plan	The Integrated Adaptive Management Plan (IAMP) has been completed and was submitted to the Bureau of Reclamation on March 18, 2011. The requirements of the IAMP will be coordinated with the development of the Phase II EMS that Colorado Springs Utilities will begin developing in the next reporting period. The requirements of the IAMP are not effective until SDS is operational.	No
Annual Report Requirement, Sub-Bullet c	Dust control report	The construction contract documents require the contractor to obtain an Air Pollution Emissions Notice (APEN) through the Colorado Department of Public Health & Environment and implement dust control measures as necessary to comply with the APEN requirements.	No
Annual Report Requirement, Sub-Bullet d	Weed control report	Noxious weed surveys are being completed as part of the final design and Site Development Plan processes. A noxious weed management plan is being provided to El Paso County as part of the Site Development Plan. The noxious weed management plan requirements are incorporated into the construction contract documents for each of the work packages.	No

# ATTACHMENT 1

## Annual Implementation Progress Matrix

Reporting Requirements		CY2012 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
Annual Report Requirement, Sub-Bullet e	Wildlife management report (any occurrences or actions regarding compliance with State or federal requirements)	Wildlife surveys are being completed as part of the Site Development Plan process. Habitat and species have been identified and proposed mitigation measures are identified in the wildlife survey report as necessary. Required mitigation measures will be initiated prior to construction. The construction contract documents provide direction to the contractor regarding how to handle sensitive wildlife species habitat that could be encountered during construction.	No
Annual Report Requirement, Sub-Bullet f	Cultural resources report (any occurrences or actions regarding compliance with State or federal requirements)	Class III cultural resource surveys have been completed for the NEPA corridor. In addition, a process has been initiated with Reclamation and SHPO to address cultural resource impacts as a result of construction of SDS in compliance with the Programmatic Agreement. Colorado Springs Utilities prepared a Treatment Plan which addresses how mitigation will be determined for each eligible or potentially eligible cultural resource site. The Treatment Plan was executed in June 2011.	No
Annual Report Requirement, Sub-Bullet g	Groundwater and surface water monitoring report addressing water quality and quantity	A Joint Funding Agreement was executed with the U.S. Geological Survey (USGS) on the water quality monitoring program. Water quality monitoring began in January, 2011. See Attachment 3 for the water quality monitoring data.	Attachment 3 - Water Quality Monitoring Data
Annual Report Requirement, Sub-Bullet h	Vegetation monitoring report (status of revegetation efforts)	Revegetation efforts have begun or have concluded on the FW1A, FW1B, and the S4B/N1A Pipeline work packages.	No
Annual Report Requirement, Sub-Bullet i	Complaint log and how the issues were resolved	Colorado Springs Utilities is tracking complaints received through a complaints log which includes a description of the follow-up activities that occurred to address or resolve the complaint. See Attachment 4 for the Complaint Log.	Attachment 4 - Complaint Log
Annual Report Requirement, Sub-Bullet j	Emergency response log and how the issues were resolved	Colorado Springs Utilities is tracking emergency response actions through an emergency response log which includes a description of the actions taken to resolve the issue. See Attachment 5 for the Emergency Response Log.	Attachment 5 - Emergency Response Log

ATTACHMENT 1

Annual Implementation Progress Matrix

Reporting Requirements		CY2012 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
Annual Report Requirement, Sub-Bullet k	Log of when work occurred during non-typical work hours (work outside the hours of 7:00 am and 6:00 pm) and rationale by which the work was deemed necessary	The typical work hours are being incorporated into the construction contract documents for each of the work packages, as applicable. The contractor receives approval to work during non-typical work hours from the El Paso County Department of Transportation prior to the activity. Colorado Springs Utilities is tracking work which occurs during non-typical work hours through a log which includes a rationale by which the work was deemed necessary. See Attachment 6 for the Log of Work Occurring During Non-Typical Work Hours.	Attachment 6 - Log of Work Occurring During Non-Typical Work Hours
<b>Pueblo County - 1041 permit</b>			
7. Expenditures for Wastewater System Improvements, p. 12	In order to continue its efforts to protect against future spills to Fountain Creek, to increase its opportunities for reuse, and to mitigate possible water quality impacts by the SDS Project to Fountain Creek, Colorado Springs Utilities shall commit to invest an additional \$75,000,000 in its wastewater system. Expenditures will be made as part of the wastewater collection system rehabilitation programs or wastewater reuse systems between January 1, 2009 and December 31, 2024 as required. These expenditures shall be for projects not currently required by other regulatory permits, agency enforcement or court orders, consent agreements, or governmental regulations existing as of January 30, 2009. These expenditures will include the Local Collector Evaluation and Rehabilitation Program (LCERP) for the improvement and fortification of wastewater lines which could adversely affect Fountain Creek or its tributaries. These expenditures are subject to annual appropriation by the Colorado Springs City Council. Beginning in 2010, by January 31 of each year, Colorado Springs Utilities shall provide an annual report to Pueblo County describing such expenditures for the prior year.	Colorado Springs Utilities submitted a wastewater expenditures report documenting 2009 expenditures to Pueblo County on January 29, 2010. Colorado Springs Utilities prepared a report documenting 2010 expenditures which was submitted to Pueblo County on January 31, 2011. The report for 2011 is being prepared and was submitted to Pueblo County on January 26, 2012. The report for 2012 is being prepared and will be submitted to Pueblo County on or about January 31, 2013.	Attachment 7 - Expenditures for Wastewater System Improvements Annual Report for 2011
25. Compliance Monitoring and Reporting, p. 18	Applicant shall monitor and periodically report to Pueblo County on its compliance with this Permit. During project construction in Pueblo County, Applicant will submit a quarterly report to Pueblo County summarizing the activities during that period, forecasting activities scheduled for the upcoming period, and addressing compliance with the terms and conditions of the Permit. After commencing deliveries of water through the SDS pipeline, Applicant shall submit annual reports to Pueblo County summarizing its activities related to the SDS Project, the Permit, and addressing compliance with the terms and conditions of the Permit. Pueblo County may, at its discretion, hold public reviews of the reports and Permit compliance, including hearings in accordance with its regulations. <i>See Mitigation Appendix ENF-1.</i>	Colorado Springs Utilities has prepared and submitted a quarterly report for 4th Quarter 2011, 1st Quarter 2012, 2nd Quarter 2012, and 3rd Quarter 2012 during this reporting period. The report for 4th Quarter 2012 is being prepared and will be submitted to Pueblo County by January 31, 2013.	No

ATTACHMENT 1

Annual Implementation Progress Matrix

Reporting Requirements		CY2012 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
Mitigation Appendix ENF-1, Project Detail, Item 1, p. 22 of 28	<p>1. Submit a quarterly report during project construction in Pueblo County that will provide a summary of activities related to the Conditions of the permit. The report will summarize the activities occurring in the reporting period, and a forecast of activities planned in the upcoming period. Contents of the report will include (as applicable):</p> <ul style="list-style-type: none"> <li>a. Safety incident log.</li> <li>b. Citizen call log.</li> <li>c. Description of mitigation and restoration activities (i.e., quantity and location of repaired road surface, reseeding, etc.).</li> <li>d. List of non-compliance issues by contractors (silt releases, work hour infractions, fines and penalties).</li> <li>e. Sustainable construction practices employed.</li> <li>f. Schedule and key milestones met and forecast.</li> <li>g. Location and extent of excavations.</li> <li>h. Instances of work outside normal work hours, except maintenance activities.</li> <li>i. Status of site maintenance, security and access control to properties.</li> <li>j. Location and extent of dewatering activities.</li> <li>k. Status of other required permits, including compliance with the programmatic agreement to protect cultural resources.</li> <li>l. Dust monitoring summary.</li> <li>m. Status of drainage and erosion control measures.</li> <li>n. Status of plant and wildlife protection requirements.</li> <li>o. Status of measures to protect surface and groundwater flows.</li> <li>p. Status of livestock protection measures.</li> <li>q. Status of Clear Spring Ranch project.</li> <li>r. Status of pump station architectural review.</li> <li>s. Status of land acquisition.</li> <li>t. Status of compliance with requirements concerning Pueblo County Roads.</li> <li>u. Status of dredging at the levees on Fountain Creek in Pueblo.</li> <li>v. Status of reclamation and bonding for disturbed areas.</li> <li>w. Status of the written MOU for construction and use of the North River Outlet Works.</li> <li>x. Acceptance of the design of structures at Lake Pueblo Dam by the BOR.</li> <li>y. Status of conservation strategies, local reuse, stormwater management, drainage regulations and enforcement.</li> <li>z. Status of stormwater and wastewater system improvements per permit commitments.</li> <li>aa. Status of NEPA, ROD, contract negotiations with BOR and notice of NEPA-required mitigation and any project changes resulting from contract negotiations.</li> <li>bb. Status of payments in lieu of property taxes.</li> <li>cc. Copies of the annual reports on the SDS Project submitted to Reclamation.</li> </ul>	Colorado Springs Utilities has prepared and submitted a quarterly report for 4th Quarter 2011, 1st Quarter 2012, 2nd Quarter 2012, and 3rd Quarter 2012 during this reporting period. The report for 4th Quarter 2012 is being prepared and will be submitted to Pueblo County by January 31, 2013. Copies of the quarterly reports are being provided to the Bureau.	No



ATTACHMENT 1

Annual Implementation Progress Matrix

Reporting Requirements		CY2012 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
Mitigation Appendix ENF-1, Project Detail, Item 2, p. 23 of 28	<p>2. Submit an annual report to Pueblo County that will provide a summary of activities related to the SDS Project and the Conditions of the Permit. These reports will be due annually on or before January 31, beginning the year following commencement of water deliveries through the SDS pipeline. The reports shall include a signed certification of compliance with the Permit. Contents of the report will include, but will not be necessarily limited to:</p> <ul style="list-style-type: none"> <li>a. Summary of storage, diversion, delivery of water in Pueblo County.</li> <li>b. Summary of Participants' return flows to Fountain Creek including storage and releases of such return flows (maximum daily flows, average annual and monthly flows and amounts).</li> <li>c. Summaries of exchanges by Participants between Pueblo Reservoir and the Fountain Creek confluence (monthly and annual rates of flow and quantities).</li> <li>d. Use of any new water rights to be delivered or stored through SDS (amount, time, source).</li> <li>e. Water quality monitoring.</li> <li>f. Geomorphology monitoring.</li> <li>g. Status of adaptive management plans on Fountain Creek.</li> <li>h. Status of payments into the Fountain Creek monetary mitigation fund.</li> <li>i. Status of expenditures for wastewater system improvements for Participants (and third party users in the Fountain Creek basin) per Permit Conditions.</li> <li>j. Reports on the operation of the Pueblo Flow Management Program and the Low Flow Program (rates, and quantities, and times of foregone exchanges, releases, and reception documentation).</li> <li>k. Status of lake level management cooperative efforts with other entities at Pueblo Reservoir.</li> <li>l. Status of conservation and local reuse.</li> <li>m. Payments to Pueblo County in lieu of property taxes.</li> <li>n. Copies of the annual reports on the SDS Project submitted to Reclamation.</li> </ul>	The annual report requirement was not applicable during this reporting period because SDS is not operational.	No
<b>CDPHE - 401 Water Quality Certification</b>			
Certification Statement, Bullet 4, p. 6	All collected raw data and annual reports developed as a requirement of other agency conditions will be submitted to the Division at the same time they are submitted to the requiring regulatory agency. Data and reports will be submitted directly to the Environmental Data Unit in an electronic data format agreed to by the Division.	The SDS Permit Compliance Annual Report for Calendar Year 2011 has been prepared to address the annual reporting requirements for all of the major programmatic permits. Colorado Springs Utilities will post this annual report to the SDS website (sdswater.org) where it can be accessed by all interested regulatory agencies or members of the public. Pertinent raw data and reports are being submitted as part of this annual report.	No

ATTACHMENT 1

Annual Implementation Progress Matrix

Reporting Requirements		CY2012 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
<b>Fountain Creek WFCGD - Resolution 2010-01</b>			
Technical Advisory Committee Condition 2, p. 3 (Also Citizen Advisory Committee Condition 2)	<p>The Integrated Adaptive Management Plan (IAMP) shall be submitted to the District for review, and periodic reports on water quality and quantity shall be provided to the District.</p> <p>The Integrated Adaptive Management Plan (IAMP) will include how mitigation will be performed in case there are problems that were not anticipated during the project. This will include means and methods to address impacts from the project and specific triggers to initiate the process. Once the IAMP is finalized there will be an opportunity for comment.</p>	The IAMP has been completed and was submitted to the Bureau of Reclamation on March 18, 2011. The IAMP has been provided to the District.	No

# Monthly Average Flow Data from USGS Gauge Station No. 07106500 Fountain Creek at Pueblo

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The USGS provides data based on a water year (October through September). This year's report provides a re-submittal of last year's data, including missing data (October - December 2010) as well as the data for this year (October 2011 through September 2012).

**ATTACHMENT 2**

USGS Gauge Station No: 07106500

FOUNTAIN CREEK AT PUEBLO, CO

Pueblo County, Colorado

Hydrologic Unit Code 11020003

Latitude 38°17'16", Longitude 104°36'02" NAD27

Drainage area 925 square miles

Gage datum 4,705 feet above sea level NGVD29

00060, Discharge, cubic feet per second,														
YEAR	Monthly mean in cfs (Calculation Period: 2010-10-01 -> 2011-09-30) Period-of-record for statistical calculation restricted by user												Annual Average Flow	Long-Term Average Annual Simulated Streamflow
	2010			2011										
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep		
Mean of Monthly Discharge	57.5	98.1	95.5	86.9	123.3	110.8	79.2	54.7	25	53.7	65.6	308	77.3	253.0

## Notes:

1. No incomplete data has been used for the statistical calculations shown in the table.
2. Data in this table is from USGS National Water Information System: Web Interface ([waterdata.usgs.gov/nwis/monthly](http://waterdata.usgs.gov/nwis/monthly)).
3. The annual average is computed from the monthly mean data published by the U.S. Geological Survey.
4. The long-term average annual simulated streamflow for the preferred alternative (Alt 2) was taken from Table 33 of the FEIS.

00060, Discharge, cubic feet per second,														
YEAR	Monthly mean in cfs (Calculation Period: 2011-10-01 -> 2012-09-30) Period-of-record for statistical calculation restricted by user												Annual Average Flow	Long-Term Average Annual Simulated Streamflow
	2011			2012										
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep		
Mean of Monthly Discharge	104.5	142.4	102.4	107.6	121.6	103.7	72.7	45.3	66.7	67.8	34.9	41.9	88.1	253.0

## Notes:

1. No incomplete data has been used for the statistical calculations shown in the table.
2. Data in this table is from USGS National Water Information System: Web Interface ([waterdata.usgs.gov/nwis/monthly](http://waterdata.usgs.gov/nwis/monthly)).
3. The annual average is computed from the monthly mean data published by the U.S. Geological Survey.
4. The long-term average annual simulated streamflow for the preferred alternative (Alt 2) was taken from Table 33 of the FEIS.

# Water Quality Monitoring Data

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A Joint Funding Agreement was executed with the USGS to begin the water quality monitoring program in January, 2011. The data is reported based on the water year (October through September). This attachment contains data from October 2011 through September 2012. Data is provisional until it goes through the USGS quality assurance process.

Location	Date yyyymmdd	Flow cfs	Barometric pressure mmHg	Dissolved oxygen mg/L	pH	Specific conductance µS/cm	Temperature °C	Turbidity FNU	Escherichia coli MPN/100 mL	Total coliform MPN/100 mL	Ammonia mg/L N	Selenium µg/L	Dissolved solids mg/L
Standards (if applicable)									126		See Note	17.4	
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20111026	135	647	11	8.1	468	11.7	12	.	>2400	0.08	10.7	290
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20111122	54	647	10.7	8.5	587	6.4	3	12	340	<0.02	22.3	409
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20111220	61	640	11.9	8.6	586	3.2	0.2	5	410	<0.02	19.9	381
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20120123	62	638	10.9	8.7	572	4.8	2.6	10	150	<0.02	22.1	380
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20120224	64	648	11.5	8.6	573	3.7	0.7	7	340	.	21.1	386
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20120326	310	637	9.8	8.6	404	9.2	3.4	3	160	<0.02	6.5	250
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20120426	260	643	9.3	8.3	437	11	1.9	E9	E690	<0.02	7.7	270.0
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20120529	240	645	9.5	9	408	16.6	1.7	17.0	820.0	<0.02	5.8	261.0
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20120627	310	643	9.8	8.5	427	15.7	1.0	490.0	>2400	<0.02	6.4	273.0
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20120723	35	645	10.6	8.9	635	27	0.9	34	>2400	0.05	18	422
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20120831	77	647	8.0	8.3	539	17.6	1.9	78.0	>2400	0.1	11.8	356.0
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20120925	46	642	10.3	8.8	603	18	1.8	54	>2400	0.03	15.4	408
Standards (if applicable)									126		See Note	4.6	
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20111027	11	611	11.1	8.1	287	1.5	6	99	770	<0.02	0.1	176
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20111129	10	614	11.1	7.8	293	3.1	1.9	34	310	<0.02	0.09	175
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20111219	12	610	11.1	8.3	312	1.4	0.1	110	240	<0.02	0.13	176
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20120125	6.2	609	11.4	8.3	414	0.1	3.8	170	610	<0.02	0.18	235
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20120228	15	598	10.1	8.2	333	3.5	18	32	610	<0.02	0.18	184
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20120328	8.9	609	9.4	8.4	323	7.9	0.9	11	210	<0.02	0.13	184
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20120424	6.2	610	8.8	8.5	443	12.9	0.9	67	980	<0.02	0.13	262
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20120524	8.1	602	8.1	8.3	387	13.6	5.1	410	>2400	<0.02	0.15	246
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20120628	2.7	614	7.6	8.5	632	18.5	0.3	1100	>2400	<0.02	0.16	364
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20120725	3.1	611	7.3	8.5	602	19.7	5	2400	>2400	0	0	352
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20120830	3.5	613	8.3	8.5	534	15.2	29	1400	20000	0.04	0.19	336
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20120926	5	612	9.1	8.3	419	9.4	54	1500	12000	<0.02	0.12	241
Standards (if applicable)									126		See Note	4.6	
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20111024	37	615	7.6	8.3	729	10.9	11	170	1400	0.15	4.3	451
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20111129	31	619	10.5	8.5	705	5.3	14	78	1400	0.03	4.1	475
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20111219	31	613	11.4	8.6	760	2.8	5.8	70.0	1200.0	0.1	4.5	450.0
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20120125	33	613	9.8	8.5	671	7.4	11	41	280	0.38	6.6	508
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20120222	31	604	9.2	8.6	714	9.5	8.2	18	550	0.05	3.1	385
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20120328	22	613	10.7	8.9	734	11.6	4.1	150	390	<0.02	4	454
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20120424	46	613	8.4	8.5	644	16.4	20	38	1400	<0.02	2.9	397
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20120524	31	606	7.4	8.5	503	22.4	30.0	390.0	>2400	0.1	.	316.0
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20120628	9.6	616	7	9	696	26.4	4.8	440	>2400	0.03	3.9	437
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20120724	20	613	7.2	8.8	610	29.8	5.4	170	>2400	0.04	2.5	371
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20120830	10	616	8.2	8.4	696	16.8	6.1	440	>2400	0.07	3.6	435
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20120925	34	614	8.5	8.6	692	16	23	460	>2400	0.17	3.6	434

Location	Date yyyymmdd	Flow cfs	Barometric pressure mmHg	Dissolved oxygen mg/L	pH	Specific conductance µS/cm	Temperature °C	Turbidity FNU	Escherichia coli MPN/100 mL	Total coliform MPN/100 mL	Ammonia mg/L N	Selenium µg/L	Dissolved solids mg/L
Standards (if applicable)									126		See Note	8	
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20111027	58	617	10.5	8	620	4.9	20	690	2400	0.02	2.4	381
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20111129	56	620	10.4	8.4	644	6.8	25	32	980	0.04	3.2	412
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20111219	52	615	11.3	8.5	662	2.7	8.6	86	1700	0.06	3.5	398
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20120125	39	615	9.9	8.4	763	6.3	6.5	33	390	0.2	5.1	460
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20120222	41	606	9.8	8.7	660	8.3	6.3	36	870	0.03	2.8	412
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20120328	49	613	9.6	9	709	15.3	50	160	1000	<0.02	3.5	428
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20120424	48	613	7.6	8.5	650	19.7	16	84	2000	<0.02	2.7	396
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20120522	25	613	9.1	8.6	684	18.5	1.4	160	6900	<0.02	3.2	430
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20120628	17	619	6.4	8.4	802	21.9	1.5	310	>2400	0.02	3.4	507
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20120725	25	616	7.5	8.3	769	23.5	11	440	>2400	0.03	3.6	485
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20120830	15	618	7.8	8.3	781	20.3	11	680	3900	0.03	3.1	488
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20120926	66	618	8.5	8.1	497	12.6	130	4100	>24000	0.04	1.8	312
Standards (if applicable)									126		See Note	8	
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20111027	114	618	9.6	7.9	630	13.3	14	610	>2400	0.03	2.1	408
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20111128	65	619	9.6	8	620	11.3	6.7	67	1000	0.07	3	409
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20111221	57	611	10.4	8.1	748	10.0	2.8	100	1400	0.04	3.2	478
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20120124	55	614	10.2	8.1	700	9.1	4.3	44	730	0.06	3.3	411
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20120228	84	605	9.1	8.1	708	11.8	3.7	48	1200	<0.02	2.7	428
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20120328	115	614	8.4	8.7	651	17	6	440	1700	<0.02	2.8	414
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20120424	84	615	7.9	8.2	677	18.8	6.1	56	>2400	<0.02	2.5	401
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20120522	84	614	7.5	8.2	664	20.9	2.8	73	4200	0.06	2.6	405
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20120628	50	620	7.2	8.2	701	21.9	4.2	250	2400	0.06	2.5	445
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20120725	39	618	7.9	8.2	730	22.9	5	440	2400	0.14	2.4	444
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20120830	73	619	8.3	8.3	714	24.4	6.1	260	2400	0.05	2.4	442
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20120926	138	620	8.1	8	575	17.5	73	2200	24000	0.05	1.9	357
Standards (if applicable)									126		See Note	8	
FOUNTAIN CREEK AT SECURITY, CO	20111025	66	621	8.3	8.2	808	11.6	16	91	2400	0.31	3.5	494
FOUNTAIN CREEK AT SECURITY, CO	20111129	111	625	8.8	8.3	697	11.2	30	47	1000	0.28	3.2	463
FOUNTAIN CREEK AT SECURITY, CO	20111221	60	615	10.6	8.3	906	5.8	7.3	29	1600	0.3	3.9	578
FOUNTAIN CREEK AT SECURITY, CO	20120124	51	620	9.8	8.3	815	5.9	14.0	19.0	410.0	0.3	4.2	526.0
FOUNTAIN CREEK AT SECURITY, CO	20120224	94	623	8.9	8.3	954	11	30	33	920	0.4	3.3	584
FOUNTAIN CREEK AT SECURITY, CO	20120327	78	622	8.6	8.6	756	14	14.0	44.0	1300.0	0.2	3.2	469.0
FOUNTAIN CREEK AT SECURITY, CO	20120426	83	618	7.3	8.4	784	22.5	31	E69	E1400	0.38	2.8	468
FOUNTAIN CREEK AT SECURITY, CO	20120521	85	625	7.3	8.4	720	22.6	21	10	340	0.24	2.8	445
FOUNTAIN CREEK AT SECURITY, CO	20120628	44	624	6.7	8.5	782	22.8	11	1000	7700	0.02	2.8	494
FOUNTAIN CREEK AT SECURITY, CO	20120726	48	624	7.2	8.5	799	27.5	45	220	>2400	0.25	3.1	489
FOUNTAIN CREEK AT SECURITY, CO	20120830	37	623	7.2	8.5	779	26	34	290	6100	0.39	3.1	497
FOUNTAIN CREEK AT SECURITY, CO	20120924	56	624	8	8.2	778	16.3	18	140	>2400	0.11	3.4	496

Location	Date yyyymmdd	Flow cfs	Barometric pressure mmHg	Dissolved oxygen mg/L	pH	Specific conductance µS/cm	Temperature °C	Turbidity FNU	Escherichia coli MPN/100 mL	Total coliform MPN/100 mL	Ammonia mg/L N	Selenium µg/L	Dissolved solids mg/L
Standards (if applicable)									126		See Note	8	
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20111025	86	625	9	8.1	1020	13.8	19	23	2400	0.03	4.3	653
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20111128	95	630	9.3	8.1	865	8.7	30	37	2000	0.04	4.8	578
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20111221	73	621	10.2	8.3	951	5.8	14	23	1700	0.04	4.6	635
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20120124	73	627	10.2	8.4	938	6.7	27	10	520	0.04	4.6	622
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20120224	79	630	9.4	8.3	1140	9	34	13	490	0	4	716
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20120327	64	627	8.8	8.4	928	15.8	8	8	460	<0.02	3.6	605
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20120423	71	631	7.9	8.2	1000	16.7	44	26	2000	0.03	3.6	623
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20120521	53	631	6.8	8.2	1010	23.4	20	16	190	0.02	3.9	666
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20120625	52	628	7	8.4	998	28.4	44	85	3300	<0.02	3.4	644
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20120726	48	630	6.7	8.2	1010	27	11	48	2400	0.03	3.4	634
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20120828	53	632	7.0	8.1	971	24.3	76	E300	E20000	0.03	3.1	630
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20120924	50	629	7.6	8.4	989	20.3	9.7	52	>2400	0.02	3.9	627
Standards (if applicable)									126		See Note	8	
FOUNTAIN CREEK NEAR PINON, CO	20111025	76	634	8.7	8.3	1120	13.5	61	73	2400	0.02	4.4	723
FOUNTAIN CREEK NEAR PINON, CO	20111121	105	634	9.4	8.1	987	7.8	73	27	1700	0.05	4.1	666
FOUNTAIN CREEK NEAR PINON, CO	20111221	97	629	10.2	8.3	1000	4.2	72	14	1300	0.04	4.9	673
FOUNTAIN CREEK NEAR PINON, CO	20120126	94	633	9.4	8.4	1070	8.6	64	19	210	0.04	5.6	739
FOUNTAIN CREEK NEAR PINON, CO	20120227	111	636	10	8.3	1020	7.4	86	10	550	0.04	4.2	627
FOUNTAIN CREEK NEAR PINON, CO	20120329	47	633	E9.0	8.3	1090	9.7	27	6	490	<0.02	5	706
FOUNTAIN CREEK NEAR PINON, CO	20120423	30	638	6.8	8.3	1160	21.2	20	11	1100	<0.02	4.9	813
FOUNTAIN CREEK NEAR PINON, CO	20120525	29	632	6.6	8.4	1130	25.3	27	98	2800	0.02	5	743
FOUNTAIN CREEK NEAR PINON, CO	20120625	28	639	7.6	8.2	1110	22.4	60	200	6500	<0.02	4.4	725
FOUNTAIN CREEK NEAR PINON, CO	20120726	4	639	8.7	8.3	1140	27.8	26	250	>2400	0.03	4.2	741
FOUNTAIN CREEK NEAR PINON, CO	20120828	25	641	6.6	8.4	1120	28.3	80	E240	E20000	0.03	3.6	746
FOUNTAIN CREEK NEAR PINON, CO	20120926	175	638	8.1	8.1	598	16.7	1060	20000	>24000	0.05	2.8	362
Standards (if applicable)									126		See Note	28.1	
FOUNTAIN CREEK AT PUEBLO, CO.	20111026	100	646	9.8	8.4	1360	8	89	93	>2400	<0.02	14.9	938
FOUNTAIN CREEK AT PUEBLO, CO.	20111121	142	642	10.9	8.2	1160	4.4	51	15	1700	0.02	10.7	841
FOUNTAIN CREEK AT PUEBLO, CO.	20111222	E97	649	11.6	8.3	1200	1.4	55	11	870	0	12	793
FOUNTAIN CREEK AT PUEBLO, CO.	20120125	114	642	9.9	8.5	1280	7.7	36	5	310	0.02	13.9	848
FOUNTAIN CREEK AT PUEBLO, CO.	20120224	116	646	11.9	8.2	1230	0	57	7	520	<0.02	10.6	782
FOUNTAIN CREEK AT PUEBLO, CO.	20120327	78	640	8	8.5	1270	17.7	12	6	99	<0.02	12.7	828
FOUNTAIN CREEK AT PUEBLO, CO.	20120425	39	641	8.4	8.4	1450	16.4	12	44	240	<0.02	20.6	1020
FOUNTAIN CREEK AT PUEBLO, CO.	20120522	47	637	7.2	8.6	1460	28	31	<100	3700	<0.02	22.3	1010
FOUNTAIN CREEK AT PUEBLO, CO.	20120627	24	641	6.8	8.6	1480	26.6	6	20	2400	<0.02	23.4	1050
FOUNTAIN CREEK AT PUEBLO, CO.	20120723	9.1	644	12.3	8.7	2070	31.5	2.5	13	>2400	0.03	68	1640
FOUNTAIN CREEK AT PUEBLO, CO.	20120823	18	642	7.9	8.5	1470	25.7	23	12	>2400	0.02	20.7	1030
FOUNTAIN CREEK AT PUEBLO, CO.	20120924	17	643	8	8.5	1610	19.8	1.8	20	2400	<0.02	30.3	1190



Location	Date yyyymmdd	Flow cfs	Barometric pressure mmHg	Dissolved oxygen mg/L	pH	Specific conductance µS/cm	Temperature °C	Turbidity FNU	Escherichia coli MPN/100 mL	Total coliform MPN/100 mL	Ammonia mg/L N	Selenium µg/L	Dissolved solids mg/L
Standards (if applicable)									126		See Note	14.1	
ARKANSAS RIVER NEAR AVONDALE, CO.	20111026	351	651	10.8	8.2	864	10.2	26	140	2400	0.03	11.6	586
ARKANSAS RIVER NEAR AVONDALE, CO.	20111121	291	648	10.4	8	1000	4.6	24	16	630	0	14	700
ARKANSAS RIVER NEAR AVONDALE, CO.	20111215	284	650	11.2	8.4	950	5.5	15	9	230	0.34	14.8	655
ARKANSAS RIVER NEAR AVONDALE, CO.	20120123	269	644	10.9	8.2	1000	2.8	21	13	520	0.88	16.2	687
ARKANSAS RIVER NEAR AVONDALE, CO.	20120227	269	644	10.9	8.6	988	9.2	26	20	550	0.07	16.6	669
ARKANSAS RIVER NEAR AVONDALE, CO.	20120326	494	641	9.1	8.3	709	10.5	33	15	390	0.03	9.9	457
ARKANSAS RIVER NEAR AVONDALE, CO.	20120423	461	648	8.5	8.3	721	19.6	36	41	1100	<0.02	10.5	457
ARKANSAS RIVER NEAR AVONDALE, CO.	20120529	544	648	10.3	8.6	593	18.8	17	17	1700	<0.02	8.2	388
ARKANSAS RIVER NEAR AVONDALE, CO.	20120627	400	647	8	8.4	605	24.1	25	36	>2400	<0.02	8	399
ARKANSAS RIVER NEAR AVONDALE, CO.	20120723	161	649	9.4	8.4	848	26.5	12	7	>2400	0.02	11.4	597
ARKANSAS RIVER NEAR AVONDALE, CO.	20120831	207	650	8.2	8.2	821	18.4	20	42	>2400	0.05	10.6	553
ARKANSAS RIVER NEAR AVONDALE, CO.	20120925	166	645	9.4	8.5	861	20.8	16	21	>2400	<0.02	12.4	606
Standards (if applicable)									126		See Note	28.1	
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20111028	140	649	10.2	8.3	1220	7.0	180	E370	>2400	0	10	851
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20111130	115	638	9.8	8.3	1250	6.3	57	27	1700	0.03	10.7	825
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20111214	96	639	10.6	8.4	1250	3.2	49	8	1200	<0.02	11.3	878
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20120123	87	639	9.2	8.4	1280	5.9	46	1	260	<0.02	14.8	858
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20120228	104	634	10.4	8.3	1240	3.5	48	3	280	<0.02	11.2	784
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20120326	84	639	9.1	8.4	1250	10	29	23	360	<0.02	11.9	850
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20120426	32	643	8.6	8.2	1570	16	12	E43	E1000	<0.02	22.3	1100
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20120521	51	649	7.3	8.3	1600	22.4	46	280	>2400	0.02	29.2	1200
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20120627	26	643	8.2	8.4	1520	23.3	11	100	>2400	<0.02	21.6	1080
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20120723	6.6	647	11.8	8.6	2150	25.9	1.7	140	>2400	0.03	58.2	1720
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20120823	26	646	8.4	8.4	1540	23.4	25	170	>2400	0.04	22.3	1120
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20120927	85	648	8	8.4	1230	15.3	310	210	1000	0	16	845
Standards (if applicable)									126		See Note	8	
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20111031	114	641	8.5	8.4	1180	12.7	92	44	2400	<0.02	5.9	804
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20111130	115	638	9.6	8.2	1170	4.5	62	34	2000	<0.02	7.5	780
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20111220	109	639	10.5	8.4	1180	4.2	55	8	730	<0.02	7.1	797
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20120126	86	644	11.2	8.3	1230	1.8	31	19	210	0.02	7.8	778
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20120224	132	647	11.5	8.3	1130	2.2	150	8	1000	<0.02	6.2	745
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20120327	71	642	9.4	8.4	1180	8.2	21	26	170	<0.02	6.6	768
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20120425	36	642	7.7	8.5	1320	20	13	16	230	<0.02	9.6	884
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20120521	45	648	8.3	8.3	1300	16.6	67	96	2000	<0.02	10	892
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20120625	26	641	6.5	8.6	1300	29.5	19	20	1400	<0.02	8.5	834
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20120828	23	647	8.1	8.6	1320	29	9.7	E20	E3400	<0.02	8.1	912
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20120924	19	644	8.4	8.4	1360	15.0	7	63	690	<0.02	9	951

Location	Date yyyymmdd	Flow cfs	Barometric pressure mmHg	Dissolved oxygen mg/L	pH	Specific conductance µS/cm	Temperature °C	Turbidity FNU	Escherichia coli MPN/100 mL	Total coliform MPN/100 mL	Ammonia mg/L N	Selenium µg/L	Dissolved solids mg/L
Standards (if applicable)									126		See Note	8	
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20111027	132	628	8.5	8.3	794	12.1	50	550	>2400	0	3	520
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20111128	106	628	10.8	8.1	790	7.0	27	230	980	0	4	524
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20111220	76	624	10.7	8.3	852	3.4	12	34	1400	0	4	541
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20120124	67	624	9.7	8.4	867	7.1	14	38	2000	0	4	580
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20120227	99	628	10.6	8.2	864	3.5	25	E42	E920	0	4	493
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20120329	60	625	9	8.4	839	13.8	16	51	1700	0	3	529
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20120425	46	624	7.4	8.6	896	21.8	11	52	1200	<0.02	3	563
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20120525	40	623	8.1	8.3	812	15.6	4	130	>2400	0	3	523
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20120625	61	627	8.1	8.7	832	27.3	8	74	2500	0	3	522
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20120725	50	627	7.4	8.4	833	23.4	12	55	2400	0	3	521
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20120828	62	632	7.5	8.2	812	21.9	22	E85	E6900	0	3	502
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20120924	46	628	8.4	8.5	838	17.7	7	96	>2400	0	3	533

Note on Ammonia:

Arkansas River Standards for Ammonia include calculations to be performed monthly. These standards are not included because calculations with the small volume of data taken for SDS would yield inaccurate standards.

Note on Salinity:

No standards exist for Salinity along the Arkansas River.

# Complaint Log

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County	Date	Caller (Contact)	Reason	Response	Follow up	Disposition
PC	1/25/2012	Dwain Maxwell on Kirkwood, S2	Dust complaint	Contacted resident engineer, who had water truck apply more water in the affected area. Air quality readings taken within the easement were within acceptable levels.	None needed	Resident satisfied with outcome
PC	1/26/2012	Robert Holcomb on Blackstone, S2	Dust complaint	Contacted resident engineer, who had water truck apply more water in the affected area. Air quality readings taken within the easement were within acceptable levels.	None needed	Resident satisfied with outcome
EPC	2/1/2012	Lee Gross in Peaceful Valley, N1B	Dust complaint	Contacted resident engineer, who had water truck apply more water in the affected area. Air quality readings taken within the easement were within acceptable levels.	None needed	Resident satisfied with outcome
PC	2/17/2012	Dwain Maxwell on Kirkwood, S2	Speeding, dust complaint	Contacted resident engineer, who called for water truck and spoke to contractor about speeds. Air quality readings taken within the easement were within acceptable levels.	None needed	Resident satisfied with outcome
EPC	3/19/2012	Lou Paddock on Heritage Road, N1B	Dust complaint	Call came at 5:45 pm Friday night. Crews applied water to dirt piles first thing Monday and now will do at least at close of job every Friday.	None needed	Resident satisfied with outcome

County	Date	Caller (Contact)	Reason	Response	Follow up	Disposition
PC	2/22/2012	Herb Walsh on Kirkwood, S2	Speeding, dust complaint, question about possible appurtenance	Contacted resident engineer, who called for water truck and spoke to constractor about speeds. Air quality readings taken within the easement were within acceptable levels. Also let Mr. Walsh know that no appurtenance is planned on his property.	None needed	Resident satisfied with outcome
PC	3/8/2012	Mr. C. Mullins	Dust complaint	Contacted resident engineer, who had water truck apply more water in the affected area. Air quality readings taken within the easement were within acceptable levels.	None needed	Resident satisfied with outcome
PC	3/13/2012	Dwain Maxwell on Kirkwood, S2	Dust complaint	Contacted resident engineer, who had water truck apply more water in the affected area. Air quality readings taken within the easement were within acceptable levels.	None needed	Resident satisfied with outcome
PC	3/19/2012	Clarence Felzien on Ginger Drive, S2	Complaint about a trucking subcontractor's trucks using compression "jake" brakes on Purcell near his home	Contacted resident engineer, who contacted contractor.	None needed	Resident satisfied with outcome

County	Date	Caller (Contact)	Reason	Response	Follow up	Disposition
PC	3/19/2012	Dwain Maxwell on Kirkwood, S2	Dust complaint, concern about night vehicle maintenance near his home	Contacted resident engineer, who had water truck apply more water in the affected area. Air quality readings taken within the easement were within acceptable levels. Also asked resident engineer to make sure night maintenance is further from the Maxwell home. This work was two lots away.	None needed	Resident satisfied with outcome
PC	3/21/2012	Mr. C. Mullins, Thorpe Drive, S2	Dust complaint	Contacted resident engineer, who had water truck apply more water in the affected area. Air quality readings taken within the easement were within acceptable levels.	None needed	Resident satisfied with outcome
PC	3/27/2012	The Williamses on Kirkwood Drive, S2	Complaint about construction worker behavior in easement	Went to front door, asked construction company to provide worker to make immediate apology to residents	None needed	Resident satisfied with outcome
PC	3/29/2012	Mr. Carver on Linda Drive, S2	Dust complaint	Contacted resident engineer, who had water truck apply more water in the affected area. Air quality readings taken within the easement were within acceptable levels.	None needed	Resident satisfied with outcome
PC	4/27/2012	Charlie Brown, resident near Iliff Drive and Canvas Drive	Dust observation during door to door visit	Water truck was mobilized within an hour after observation.	None needed	Resident seemed satisfied

County	Date	Caller (Contact)	Reason	Response	Follow up	Disposition
PC	5/26/2012	Mr. Holcomb on Linda Drive	Dust complaint--related to storm that came up suddenly, then eased	Resident engineer and contractor visited the area and found that recent rains had crusted over the soil and that the storm had kicked up dirt loosened by construction traffic on alignment. Contractor had pictures to document the passage of the dust storm.	None needed	Resident seemed satisfied
PC	6/4/2012	Ms. Kay on Ranch Drive	Dust complaint -- dust coming off of the piles near her house	Contacted resident engineer, who asked contractor to send water truck to this area. Area was watered within an hour of call.	None needed	Resident seemed satisfied
PC	6/22/2012	Mrs. Williams on Kirkwood Drive	Dust complaint	Contacted resident engineer, who asked contractor to send water truck to this area. Area was watered within an hour of call.	None needed	Resident seemed satisfied.
PC	8/2/2012	Mrs. Dupree	Dust complaint near Marengo	Contacted resident engineer, who arranged for water truck and reminded contractor that dust control is on ongoing responsibility	None needed	Resident seemed satisfied

# Emergency Response Log

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No attachment is provided because no emergency response incidents associated with construction of SDS occurred during this reporting period.



# Log of Work Occurring During Non-Typical Work Hours

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Work Occurring During Non-Typical Work Hours

Work Package	Day	Date	Hours Worked	Reason
BPSPS	Thursday	10/25/2012	6:00pm - 7:00pm	Water tank failure on drilling equipment, additional equipment had to be brought on site.
BPSPS	Wednesday	10/30/2012	6:00pm - 7:30pm	20" bore tunnel repair.
BPSPS	Thursday	11/15/2012	6:00pm - 7:30pm	Directional drilling crew hit fiber optic and phone line during drilling operation.
S4B/N1A/N1B	Saturday	6/30/2012	3:00am - 7:00am	Start concrete pour early to avoid mid-day heat
S4B/N1A/N1B	Friday	7/6/2012	3:00am - 7:00am	Start concrete pour early to avoid mid-day heat
S4B/N1A/N1B	Thursday	7/19/2012	3:00am - 7:00am	Start concrete pour early to avoid mid-day heat
S4B/N1A/N1B	Wednesday	7/25/2012	3:00am - 7:00am	Start concrete pour early to avoid mid-day heat
S4B/N1A/N1B	Wednesday	9/12/2012	6:00pm - 7:00pm	Stayed late to prep for concrete pour
S4B/N1A/N1B	Thursday	9/13/2012	6:00am - 7:00am	To complete prep for concrete pour & avoid predicted rain
S4B/N1A/N1B	Wednesday	9/19/2012	6:00am - 7:00am	Start concrete pour early
S4B/N1A/N1B	Thursday	10/11/2012	6:00pm - 7:30pm	Exploratory excavation to determine shoring requirements for upcoming work
FW1B	Sunday	2/5/2012	7:00am - 12:00pm	Damaged pipe repair work - grout removal
PDC 1A	Monday	1/23/2012	6:00 p.m. - 8:00 p.m.	Critical lift
PDC 1A	Saturday	1/28/2012	7:00 a.m. - 4:00 p.m.	Work at Buttress 16
PDC 1A	Saturday	2/4/2012	7:00 a.m. - 4:00 p.m.	Work at Buttress 16
PDC 1A	Saturday	2/11/2012	7:00 a.m. - 4:00 p.m.	Work at Buttress 16
PDC 1A	Saturday	3/3/2012	7:00 a.m. - 5:30 p.m.	Rebar installation and pipe sandblast
PDC 1A	Saturday	3/10/2012	7:00 a.m. - 5:30 p.m.	Rebar installation and walkway shoring
PDC 1A	Sunday	3/11/2012	8:00 a.m. - 10:00 a.m.	Loosen forms at north shore
PDC 1A	Saturday	3/17/2012	7:00 a.m. - 5:30 p.m.	Install shoring and electrical conduit installation
PDC 1A	Monday	3/19/2012	6:00 p.m. - 8:00 p.m.	Work at Buttress 16
PDC 1A	Tuesday	3/20/2012	6:00 p.m. - 8:00 p.m.	Work at Buttress 16
PDC 1A	Wednesday	3/21/2012	6:00 p.m. - 8:00 p.m.	Work at Buttress 16
PDC 1A	Thursday	3/22/2012	6:00 p.m. - 8:00 p.m.	Work at Buttress 16
PDC 1A	Friday	3/23/2012	6:00 p.m. - 8:00 p.m.	Work at Buttress 16
PDC 1A	Saturday	3/24/2012	7:00 a.m. - 6:00 p.m.	Work at Buttress 16
PDC 1A	Monday	3/26/2012	6:00 p.m. - 10:30 p.m.	Coffer dam repair
PDC 1A	Saturday	3/31/2012	7:00 a.m. - 6:00 p.m.	Work at Buttress 16
PDC 1A	Saturday	4/7/2012	7:00 a.m. - 6:00 p.m.	Concrete work
PDC 1A	Saturday	4/14/2012	7:00 a.m. - 6:00 p.m.	Concrete work and lining preparation
PDC 1A	Saturday	4/21/2012	7:00 a.m. - 6:00 p.m.	Concrete work and lining preparation
PDC 1A	Friday	4/27/2012	6:00 a.m. - 7:00 a.m.	Early start for concrete placement
PDC 1A	Saturday	5/19/2012	7:00 a.m. - 6:00 p.m.	Bulkhead removal
S2	Monday	4/16/2012	6:00 p.m. - 8:00 p.m.	Pipe Laying Across Purcell Blvd
S2	Tuesday	4/17/2012	6:00 p.m. - 8:00 p.m.	Pipe Laying Across Purcell Blvd
S2	Wednesday	4/18/2012	6:00 p.m. - 6:30 p.m.	Pipe Laying Across Purcell Blvd
S2	Monday	4/30/2012	6:00 p.m. - 8:00 p.m.	Pipe Laying Across E Platteville Blvd
S2	Tuesday	5/1/2012	6:00 p.m. - 8:00 p.m.	Pipe Laying Across E Platteville Blvd

# Expenditures for Wastewater System Improvements Annual Report for 2012

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# Pueblo County 1041 Permit

## Expenditures for Wastewater System Improvements

### Annual Progress Report

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January 17, 2013

Reporting for the period between January 1, 2012 and December 31, 2012.

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**APPENDIX A – LCERP COMPLETION TABLE**

**APPENDIX B – MHERP COMPLETION TABLE**

## Introduction

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On March 18, 2009 the Pueblo Board of County Commissioners passed Resolution No. P&D 09-22, approving 1041 Permit No. 2008-002 with terms and conditions for construction of the Southern Delivery System water project within Pueblo County, Colorado.

1041 Permit Condition No.7 requires that Springs Utilities provide an annual report to the Pueblo County Board of Commissioners on or before January 31 of each year reporting the Wastewater System Improvement expenditures from January 1 through December 31. Condition No.7 of the permit states:

***Expenditures for Wastewater System Improvements***

*In order to continue its efforts to protect against future spills to Fountain Creek, to increase its opportunities for reuse, and to mitigate possible water quality impacts by the SDS Project to Fountain Creek, Colorado Springs Utilities shall commit to invest an additional seventy-five million dollars (\$75,000,000) in its wastewater system. Expenditures will be made as part of the wastewater collection system rehabilitation programs or wastewater reuse systems between January 1, 2010 and December 31, 2024 as required. These expenditures shall be for projects not currently required by other regulatory permits, agency enforcement or court orders, consent agreements, or governmental regulations existing as of January 30, 2010. These expenditures will include the Local Collector Evaluation and Rehabilitation Program (LCERP) for the improvement and fortification of wastewater lines which could adversely affect Fountain Creek or its tributaries. These expenditures are subject to annual appropriation by the Colorado Springs City Council. Beginning in 2010, by January 31 of each year, Colorado Springs Utilities shall provide an annual report to Pueblo County describing such expenditures for the prior year.*

The Wastewater Collection System Rehabilitation Programs are comprehensive programs that systematically inspect, evaluate, prioritize, and rehabilitate the entire Springs Utilities collection system. In 2012, the projects that met the terms of Condition No. 7 are: 1) the Local Collectors Evaluation and Rehabilitation Project (LCERP); 2), the Manhole Evaluation and Rehabilitation Project (MHERP); and 3) the Collection System Rehabilitation and Replacement Project (R&R). These projects are independent of Springs Utilities' normal operation and maintenance programs.

The Wastewater Reuse System consists of several pumping stations, storage reservoirs, holding ponds transmission mains and a tertiary treatment facility.

## Project Descriptions

### Local Collectors Evaluation and Rehabilitation Project (LCERP)

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LCERP consists of the systematic evaluation and rehabilitation of sewer collection pipes less than 10-inch in diameter.

LCERP:

- Determines the condition of all the sanitary sewer pipe segments less than 10-inches in diameter and places them by priority on a schedule to be re-inspected, rehabilitated, repaired and/or replaced.
- Reduces the risk of Sanitary Sewer Overflows (SSOs)
- Is part of the overall long-term investments to our wastewater system through the year 2025.

In 2012, LCERP repaired or rehabilitated approximately 26,003 feet of less than 10-inch sewer pipe, representing approximately 90 line segments, at a cost of \$2,055,737.

## Manhole Evaluation and Rehabilitation Project (MHERP)

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MHERP has been developed as a comprehensive program to provide the rehabilitation of sanitary sewer manholes throughout the Springs Utilities wastewater collection system

MHERP:

- Is designed to reducing the risk of spills, stoppages and SSOs
- Reduces infiltration and inflow at manholes throughout collection system.

In 2012, MHERP repaired or rehabilitated 425 manholes, at a cost of \$755,602.

## Collection System Rehabilitation and Replacement Project (R&R)

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The R&R project rehabilitates or replaces large diameter (greater than 10-inch) sewer pipes that were installed after January 1, 1994<sup>1</sup>.

R&R:

- Is designed to facilitate operations, increase capacity, and upgrade the system
- Focuses on the reduction of SSOs and stoppages
- Reduces the risk of spills, thereby protecting public health and environment.

There were no pipes rehabilitated in 2012 that would be applicable to the terms of the 1041 Permit. All R&R project work on large diameter (greater than 10-inch) sewer pipes that were installed after January 1, 1994, was on pipes subject to a Compliance Order on Consent issued by the Colorado Department of Public Health and Environment in 2001 and consisted of cured-in-place pipe installations and/or point repairs.

## Wastewater Reuse System

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Colorado Springs maintains a tertiary treatment facility along with a non-potable distribution system.

Wastewater Reuse Systems:

- Deliver tertiary-treated wastewater to parks, cemeteries, golf courses and commercial properties for landscape irrigation
- Deliver tertiary treated wastewater to Drake Power Plant for evaporative cooling
- Include supplies from raw surface water, groundwater, and reclaimed water.

Only normal operation and maintenance of the reuse system was conducted in 2012.

## Summary

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During the reporting period of January 1, 2012 through December 31, 2012 costs for LCERP and MHERP totaled \$2,811,339.

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<sup>1</sup> A program, separate from the R&R project, is the Sanitary Sewer Evaluation and Rehabilitation Program, which includes large diameter pipe installed *prior to* 1994, and the Sanitary Sewer Creek Crossing Project are compliance order Wastewater Collection System Rehabilitation Programs that do not meet the terms of Condition No. 7. These compliance activities resulted in an expenditure of \$2.99M in 2012.

## **Appendix A**

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**2012 - Local Collectors Evaluation and Rehabilitation Project**

<b>CSU Location ID</b>	<b>Work Order #</b>	<b>DIAMETER (inches)</b>	<b>LENGTH (feet)</b>	<b>Assesment Description</b>	<b>Collection Basin Name</b>	<b>Date Complete</b>
WW.141232	2435927	8	349	CIPP	CRAGMOOR	02/06/12
WW.140222	2435928	8	271	CIPP	MESA VALLEY	02/07/12
WW.134348	2435930	8	264	CIPP	CRAGMOOR	02/08/12
WW.156078	2435931	8	254	CIPP	WEST SIDE	02/09/12
WW.136050	2435932	8	60	CIPP	NORTH SUBURBAN	02/10/12
WW.139688	2435933	8	179	replacement	WEST SIDE	01/05/12
WW.137703	2435934	8	425	replacement	WEST SIDE	01/05/12
WW.155650	1829018	8	274	CIPP	SHOOKS RUN	05/07/12
WW.146821	2357972	8	281	CIPP	UPPER SAND CREEK	05/08/12
WW.158998	2436145	8	385	CIPP	UPPER SAND CREEK	05/09/12
WW.146824	2357597	8	210	CIPP	UPPER SAND CREEK	05/10/12
WW.133838	2352706	8	165	CIPP	BEAR CREEK	05/11/12
WW.137468	2177604	8	237	CIPP	SPRING CREEK	05/12/12
WW.154131	2435939	8	435	CIPP	SHOOKS RUN	04/17/12
WW.145545	2435946	8	475	CIPP	SHOOKS RUN	04/18/12
WW.134600	2435947	8	323	CIPP	SHOOKS RUN	04/19/12
WW.161783	2435948	8	441	CIPP	SHOOKS RUN	04/20/12
WW.163935	2055707	8	451	CIPP	SHOOKS RUN	04/24/12
WW.153707	2435949	8	161	CIPP	SHOOKS RUN	04/25/12
WW.137349	2054884	8	382	CIPP	SHOOKS RUN	04/26/12
WW.137350	2054883	8	238	CIPP	SHOOKS RUN	04/27/12
WW.134765	2435950	8	335	CIPP	SHOOKS RUN	04/28/12
WW.143947	2435952	8	275	CIPP	UPPER SAND CREEK	07/06/12
WW.148856	2435954	8	399	CIPP	UPPER SAND CREEK	07/07/12
WW.133156	2435975	8	399	CIPP	UPPER SAND CREEK	07/08/12
WW.154925	2436039	8	340	CIPP	UPPER SAND CREEK	07/09/12
WW.142725	2436090	8	161	CIPP	UPPER SAND CREEK	07/28/12
WW.141895	2436128	8	382	CIPP	UPPER SAND CREEK	07/29/12
WW.152125	2436130	8	363	CIPP	UPPER SAND CREEK	07/30/12
WW.159064	2436131	8	261	CIPP	UPPER SAND CREEK	07/31/12
WW.140634	2436132	8	293	CIPP	UPPER SAND CREEK	08/01/12
WW.146910	2436134	8	354	CIPP	UPPER SAND CREEK	08/02/12
WW.152910	2436136	8	137	CIPP	UPPER SAND CREEK	08/01/12
WW.136543	2436138	8	248	CIPP	UPPER SAND CREEK	06/12/12
WW.159058	2436139	8	345	CIPP	UPPER SAND CREEK	06/13/12
WW.141894	2436140	8	292	CIPP	UPPER SAND CREEK	06/14/12
WW.149535	1856957	8	393	CIPP	CRAGMOOR	06/15/12
WW.157337	1947368	8	308	CIPP	BEAR CREEK	07/10/12
WW.152566	2140794	8	320	CIPP	BRIARGATE	07/11/12
WW.163376	2469068	8	301	CIPP	TEMPLETON GAP	07/12/12
WW.135660	2469070	8	301	CIPP	TEMPLETON GAP	10/01/12
WW.163368	1892991	8	245	CIPP	TEMPLETON GAP	06/26/12
WW.137793	1893006	8	321	CIPP	TEMPLETON GAP	06/26/12
WW.149134	1926307	8	292	CIPP	TEMPLETON GAP	12/12/12
WW.159321	1926329	8	48	CIPP	TEMPLETON GAP	12/12/12
WW.157259	1926509	8	396	CIPP	TEMPLETON GAP	12/13/12
WW.153159	1926324	8	169	CIPP	TEMPLETON GAP	12/14/12
WW.155157	1926555	8	273	CIPP	TEMPLETON GAP	09/03/12
WW.140878	1926327	8	150	CIPP	TEMPLETON GAP	12/17/12
WW.140882	1926458	8	304	CIPP	TEMPLETON GAP	08/03/12
WW.140884	1926441	8	416	CIPP	TEMPLETON GAP	08/30/12
WW.145084	1926401	8	261	CIPP	TEMPLETON GAP	06/26/12
WW.145088	1926483	8	382	CIPP	TEMPLETON GAP	08/24/12
WW.145099	1926743	8	359	CIPP	TEMPLETON GAP	08/28/12
WW.138846	1926524	8	327	CIPP	TEMPLETON GAP	07/19/12
WW.152142	1927129	8	419	CIPP	TEMPLETON GAP	08/27/12
WW.145101	1926844	8	274	CIPP	TEMPLETON GAP	07/19/12
WW.133697	1927206	8	317	CIPP	TEMPLETON GAP	08/24/12
WW.133699	1927214	8	288	CIPP	TEMPLETON GAP	07/18/12
WW.159345	2469071	8	317	CIPP	TEMPLETON GAP	07/30/12
WW.163380	2469072	8	298	CIPP	TEMPLETON GAP	07/13/12
WW.151108	2045409	8	347	CIPP	LOWER COTTONWOOD CREEK	07/17/12
WW.151110	2045478	8	154	CIPP	LOWER COTTONWOOD CREEK	08/23/12
WW.157222	2045402	8	409	CIPP	LOWER COTTONWOOD CREEK	07/18/12

**2012 - Local Collectors Evaluation and Rehabilitation Project**

<b>CSU Location ID</b>	<b>Work Order #</b>	<b>DIAMETER (inches)</b>	<b>LENGTH (feet)</b>	<b>Assesment Description</b>	<b>Collection Basin Name</b>	<b>Date Complete</b>
WW.155114	2045521	8	89	CIPP	LOWER COTTONWOOD CREEK	07/16/12
WW.142939	2045703	8	287	CIPP	LOWER COTTONWOOD CREEK	08/22/12
WW.140824	2045403	8	260	CIPP	LOWER COTTONWOOD CREEK	06/28/12
WW.140502	2047827	8	449	CIPP	TEMPLETON GAP	06/27/12
WW.150790	2047830	8	415	CIPP	TEMPLETON GAP	06/28/12
WW.132958	2047833	8	372	CIPP	TEMPLETON GAP	06/29/12
WW.146712	2046468	8	240	CIPP	TEMPLETON GAP	06/29/12
WW.147180	1927796	8	154	CIPP	TEMPLETON GAP	07/11/12
WW.155182	1928038	8	313	CIPP	TEMPLETON GAP	07/12/12
WW.161381	1927907	8	308	CIPP	TEMPLETON GAP	07/12/12
WW.153824	1818493	8	190	CIPP	SPRING CREEK	06/29/12
WW.154075	2220531	8	252	CIPP	UPPER SAND CREEK	06/29/12
WW.142687	2220532	8	440	CIPP	UPPER SAND CREEK	07/11/12
WW.150880	2220533	8	227	CIPP	UPPER SAND CREEK	06/25/12
WW.133723	2220534	8	158	CIPP	TEMPLETON GAP	06/28/12
WW.132297	1964367	8	268	CIPP	DOUGLAS CREEK	08/02/12
WW.144314	1964369	8	343	CIPP	DOUGLAS CREEK	07/31/12
WW.137133	2483400	8	188	CIPP	Cragmoor	08/30/12
WW.149524	2483399	8	188	CIPP	Cragmoor	08/01/12
WW.147485	1856961	8	196	CIPP	Cragmoor	08/01/12
WW.141238	2483402	8	173	Replacement	Cragmoor	09/11/12
WW.135631	2409140	8	202	Replacement	UPPER SAND CREEK	09/12/12
WW.177811	2409141	8	285	Replacement	UPPER SAND CREEK	09/14/12
WW.146873	2409143	8	94	Replacement	UPPER SAND CREEK	10/01/12
WW.148857	2049144	8	299	Replacement	UPPER SAND CREEK	10/02/12
ww.145296	2364936	8	380	Replacement	CARSON VALLEY	09/14/12
<b>Totals</b>		<b>90</b>	<b>26,003</b>			

## **Appendix B**

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2012 - Manhole Evaluation and Rehabilitation Project

Manhole Evaluation and Rehabilitation Project				
CSU Location ID #	Work Order #	Diameter (feet)	Depth (feet)	Date Complete
ww.103113	2204493	4	12.3	04/23/2012
ww.119470	2204550	4	14	04/24/2012
ww.106439	2204546	4	16.6	04/26/2012
ww.124393	2204545	4	11	04/25/2012
ww.122321	2204543	5	16.8	04/26/2012
ww.120375	2204542	5	10.5	04/25/2012
ww.118426	2204540	5	9.9	04/25/2015
ww.116441	2204538	5	15.5	04/25/2012
ww.112695	2204553	4	9.6	04/25/2012
ww.128602	2204552	4	14.1	04/24/2012
ww.112448	2204536	5	9.6	04/25/2012
ww.126359	2204533	5	9.9	05/03/2012
ww.119432	2204499	5	12.7	04/24/2012
ww.109586	2219522	5	13.3	09/23/2012
ww.107556	2219513	5	12.8	04/06/2012
ww.129536	2219551	5	10.2	04/06/2012
ww.118480	2399769	4	7.8	04/24/2012
ww.117416	2399781	4	9.7	04/05/2012
ww.122716	2399782	5	12.3	05/30/2012
ww.111537	2399783	5	7.3	04/06/2012
ww.117263	2399784	5	7.4	04/02/2012
ww.102104	2399785	4	10.6	04/04/2012
ww.128907	2399789	4	13.2	04/02/2012
ww.125373	2399790	4	10.5	03/01/2012
ww.117455	2399791	4	9	02/29/2012
ww.129394	2399793	4	7.5	02/29/2012
ww.111415	2399794	4	9.9	04/04/2012
ww.121666	2399795	4	8.5	03/01/2012
ww.103810	2399796	4	6.5	04/05/2012
ww.198424	2399797	4	7	04/05/2012
ww.108868	2399798	5	21	02/29/2012
ww.103794	2399799	4	10.5	03/01/2012
ww.111984	2399801	4	11	05/10/2012
ww.116072	2399802	5	10.6	09/13/2012
ww.102699	2399805	5	12.4	04/02/2012
ww.100413	2399808	5	9.2	04/25/2012
ww.113421	2399809	4	13.2	04/02/2012
ww.129402	2399810	4	7	04/05/2012
ww.113290	2399986	5	9.2	09/11/2012
ww.129750	2399987	4	7.6	02/29/2012
ww.114158	2415330	6	19	04/09/2012
ww.112132	2415331	5	19	04/09/2012
ww.100512	2415333	4	12.8	04/12/2012
ww.122019	2415337	4	13.5	04/10/2012
ww.106147	2415342	5	15.7	04/23/2012
ww.116145	2415343	5	13.9	04/23/2012
ww.130092	2415344	5	13.2	04/10/2012
ww.100513	2415345	4	12.8	04/11/2012
ww.130937	2422462	5	21	05/08/2012
ww.119473	2422463	5	18.3	05/24/2012
ww.113616	2199698	4	12.9	06/13/2012
ww.101284	2468370	4	9.7	08/23/2012
ww.104812	2468363	4	8.2	08/20/2012
ww.106790	2468365	4	13	08/20/2012
ww.118273	2468360	4	9.7	08/20/2012
ww.111219	2468400	4	10.7	08/23/2012
ww.116658	2468368	4	9.7	08/23/2012
ww.126781	2468364	4	8.2	08/20/2012
ww.106040	2468415	4	6.7	08/27/2012
ww.108078	2468416	4	5.2	08/27/2012
ww.105790	2468392	5	5.7	12/03/2012
ww.105793	2468395	4	9.2	09/06/2012
ww.113803	2468393	4	8.7	09/06/2012
ww.121274	2468419	4	6.8	09/05/2012
ww.127527	2468420	4	12.7	09/07/2012
ww.113770	2383197	4	5.9	03/01/2012
ww.117747	2383198	4	5	03/06/2012
ww.115750	2383199	4	4.6	03/06/2012
ww.129706	2383200	4	6.2	03/06/2012
ww.131733	2383201	4	7.2	03/06/2012
ww.115748	2383202	4	5.2	03/05/2012
ww.129703	2383203	4	6.9	04/10/2012
ww.129704	2383204	4	6.1	03/12/2012
ww.109773	2383205	4	5.6	03/12/2012
ww.125724	2383206	4	5.6	03/09/2012
ww.113767	2383207	4	4.3	02/29/2012
ww.105740	2383208	4	7.4	04/11/2012
ww.127703	2383209	4	9.7	04/11/2012
ww.129699	2383210	4	11.7	04/11/2012
ww.129702	2383215	4	9.6	03/09/2012
ww.107754	2383212	4	6.7	03/05/2012
ww.123643	2383213	4	4.6	03/05/2012
ww.105738	2383214	4	8.2	03/09/2012
ww.127702	2383211	4	9.6	04/10/2012
ww.125726	2383216	4	11.6	03/12/2012
ww.129705	2383217	4	8.9	02/29/2012
ww.131734	2383218	4	10	02/29/2012
ww.103679	2383219	4	4.2	02/29/2012
ww.103675	2383220	4	5.4	01/26/2012
ww.131730	2383221	4	9	01/26/2012
ww.105741	2383222	4	5.2	01/26/2012
ww.105743	2383223	4	8.2	03/01/2012
ww.107755	2383224	4	6.8	03/01/2012

2012 - Manhole Evaluation and Rehabilitation Project

Manhole Evaluation and Rehabilitation Project				
CSU Location ID #	Work Order #	Diameter (feet)	Depth (feet)	Date Complete
ww.131731	2383225	4	9.2	02/29/2012
ww.107753	2383226	4	8	03/05/2012
ww.105737	2383227	4	8.7	04/11/2012
ww.113768	2383228	4	6.1	03/01/2012
ww.103676	2383229	4	5.8	03/05/2012
ww.129695	2386898	4	2.5	03/28/2012
ww.125717	2386908	4	4.9	03/29/2012
ww.103667	2386904	4	7.3	03/22/2012
ww.103668	2386906	4	4.1	03/29/2012
ww.111724	2386889	4	5.5	03/21/2012
ww.111726	2386893	4	5.5	03/21/2012
ww.123639	2386884	4	9.9	03/21/2012
ww.103663	2386885	4	7.4	03/21/2012
ww.129692	2386872	4	11.1	03/20/2012
ww.103662	2386883	4	9.1	03/27/2012
ww.127690	2386855	4	11	03/06/2012
ww.111716	2386854	4	12.1	03/06/2012
ww.129684	2386853	4	10.1	03/22/2012
ww.103658	2386859	4	8.3	03/08/2012
ww.115743	2386886	4	7.8	03/22/2012
ww.123629	2386858	4	9.8	03/08/2012
ww.109767	2386902	5	6.7	03/20/2012
ww.115744	2386896	5	6.3	03/20/2012
ww.105732	2386897	4	6.2	03/20/2012
ww.109754	2386857	4	7.1	03/06/2012
ww.131712	2386856	4	10.5	03/15/2012
ww.103642	2386852	4	12.1	03/06/2012
ww.121627	2386921	5	7.5	06/12/2012
ww.119694	2386932	5	9.7	03/26/2012
ww.105749	2386929	5	11.6	05/17/2012
ww.117724	2386913	4	7.3	03/06/2012
ww.123646	2386917	4	4.8	03/28/2012
ww.111732	2386914	4	6.8	03/29/2012
ww.107756	2386916	4	4.1	03/29/2012
ww.119691	2386918	4	6.1	03/28/2012
ww.103683	2386926	4	5.2	04/19/2012
ww.105745	2386925	5	7.5	04/19/2012
ww.121626	2386924	4	7.6	04/19/2012
ww.115752	2386922	4	7	04/23/2012
ww.123647	2386923	4	7.1	03/28/2012
ww.121622	2386900	4	4.2	03/28/2012
ww.109768	2386901	4	3.6	03/28/2012
ww.113756	2386899	4	4.9	03/28/2012
ww.113757	2386909	4	6.2	03/29/2012
ww.129694	2386887	4	6.1	03/22/2012
ww.125718	2386907	4	4.7	04/19/2012
ww.103665	2386888	4	7	06/12/2012
ww.109765	2386873	4	9.1	03/21/2012
ww.109761	2386860	4	10.4	03/08/2012
ww.103666	2386894	4	6.7	03/20/2012
ww.129690	2386861	4	7.1	03/08/2012
ww.111725	2386895	4	5.9	03/20/2012
ww.127710	2386934	5	8.7	03/26/2012
ww.105750	2386933	5	8.1	03/26/2012
ww.125729	2386931	5	20	05/09/2012
ww.129708	2386930	5	20	05/10/2012
ww.111734	2386911	4	8	03/29/2012
ww.103680	2386915	4	6.2	03/29/2012
ww.117742	2386919	4	9	03/29/2012
ww.115749	2386912	5	11.8	04/19/2012
ww.127707	2386927	4	5	04/19/2012
ww.117731	2386862	4	8.8	03/12/2012
ww.115740	2386863	5	7.6	03/12/2012
ww.115748	2386864	4	8.5	03/12/2012
ww.109764	2386867	4	6.4	03/20/2012
ww.123634	2386866	5	6.1	03/15/2012
ww.121619	2386869	4	6.1	03/15/2012
ww.131723	2386865	4	8	03/21/2012
ww.113753	2386868	4	6.6	03/21/2012
ww.113771	2386937	4	4.8	04/19/2012
ww.131736	2386938	4	4.9	04/19/2012
ww.107749	2386870	4	6	03/15/2012
ww.109763	2386871	4	6.6	03/15/2012
ww.127698	2386876	4	9.8	03/14/2012
ww.115741	2386874	4	9.8	03/13/2012
ww.119689	2386877	4	10.2	03/14/2012
ww.119696	2386936	4	6.1	04/23/2012
ww.117743	2386919	4	9	04/19/2012
ww.113764	2386880	4	9.9	03/21/2012
ww.175864	2386935	5	6.3	04/23/2012
ww.103684	2386928	4	6.7	04/03/2012
ww.121627	2386921	5	7	04/23/2012
ww.113763	2386878	4	9.8	03/21/2012
ww.123636	2386875	4	8.3	03/14/2011
ww.115746	2386879	4	9	03/19/2012
ww.125716	2386882	4	12.7	03/13/2012
ww.109766	2386881	4	8.5	03/13/2012
ww.127700	2386920	5	11	03/26/2012
ww.117733	2386905	5	7.9	04/19/2012



2012 - Manhole Evaluation and Rehabilitation Project

Manhole Evaluation and Rehabilitation Project				
CSU Location ID #	Work Order #	Diameter (feet)	Depth (feet)	Date Complete
ww.117734	2986910	5	10.4	03/27/2012
ww.113769	2386890	4	4	03/27/2012
ww.125725	2386891	4	4.2	03/27/2012
ww.111733	2386892	4	8.4	04/19/2012
ww.103641	2406241	4	11	03/06/2012
ww.121614	2406242	4	10.4	03/06/2012
ww.103643	2406246	4	6.4	03/08/2012
ww.119670	2406248	4	8.3	03/08/2012
ww.109753	2406251	4	7.6	03/06/2012
ww.117743	2421462	4	9	04/19/2012
ww.103713	2406861	4	6.3	06/14/2012
ww.119693	2406866	4	5.2	06/14/2012
ww.131735	2406868	4	9.3	06/20/2012
ww.127706	2406869	4	8.4	06/13/2012
ww.131758	2406848	4	4.3	06/14/2012
ww.172264	2392884	4	7.8	09/05/2012
ww.119721	2406889	4	8	07/27/2012
ww.107781	2406883	5	6.2	07/09/2012
ww.129725	2406860	4	12.7	07/11/2012
ww.123656	2406862	4	9	05/30/2012
ww.125744	2406859	4	7.8	05/24/2012
ww.129726	2406856	4	9.7	04/30/2012
ww.127719	2406855	4	11.4	04/30/2012
ww.129731	2406854	4	10	04/30/2012
ww.123665	2406853	4	14.4	08/30/2012
ww.109788	2406858	4	8.2	06/13/2012
ww.107759	2406864	4	4.2	05/31/2012
ww.115757	2406863	4	8.2	06/04/2012
ww.115755	2406865	4	8.8	09/05/2012
ww.119692	2453448	4	9.3	07/23/2012
ww.129721	2453452	4	7	07/18/2012
ww.105763	2453480	4	7.9	08/14/2012
ww.112938	2453496	4	12	08/15/2012
ww.123657	2453460	4	11.7	08/29/2012
ww.117760	2453459	4	7.4	08/17/2012
ww.105761	2453455	4	8.3	07/27/2012
ww.115770	2453456	4	9.5	07/27/2012
ww.129723	2453457	4	5.8	07/10/2012
ww.117759	2453458	4	3.6	07/10/2012
ww.127725	2453471	4	15.3	08/14/2012
ww.109791	2453472	4	8.5	07/12/2012
ww.129729	2453479	4	10.2	07/10/2012
ww.103710	2453453	4	7.3	07/23/2012
ww.131750	2453461	4	9.8	08/29/2012
ww.103687	2453449	4	10.1	08/15/2012
ww.115756	2453450	4	10.2	08/15/2012
ww.115778	2406880	4	7.6	05/31/2012
ww.125751	2406878	4	10.7	05/31/2012
ww.113792	2406876	4	7.3	06/04/2012
ww.111755	2406882	4	9.4	05/24/2012
ww.105770	2406877	4	9.7	05/30/2012
ww.121652	2406881	4	8.2	05/31/2012
ww.125750	2453489	4	7.2	07/23/2012
ww.113788	2453468	4	9	07/12/2012
ww.107777	2453467	4	10.3	07/17/2012
ww.109776	2406870	4	10.4	06/13/2012
ww.107769	2453463	4	9.2	09/05/2012
ww.105771	2453490	4	7.4	07/19/2012
ww.103733	2453493	4	8.3	07/19/2012
ww.109797	2453487	4	9.7	07/25/2012
ww.117772	2453488	4	11.4	08/31/2012
ww.111751	2453469	4	10.5	07/12/2012
ww.123667	2453464	4	9.7	07/16/2012
ww.111758	2453495	4	8.8	07/19/2012
ww.119718	2476461	4	8.2	08/28/2012
ww.103734	2453492	4	10.9	07/17/2012
ww.105774	2453491	4	10.6	07/17/2012
ww.131761	2456852	4	16.2	08/29/2012
ww.115774	2406875	4	8.8	04/24/2012
ww.103727	2406874	4	7.4	04/24/2012
ww.103730	2453486	4	9	07/24/2012
ww.107779	2453485	4	9.8	07/24/2012
ww.131766	2453484	4	9.4	07/27/2012
ww.111753	2453473	4	8	07/25/2012
ww.109793	2453470	4	8.8	07/24/2012
ww.131764	2453475	4	3.6	07/16/2012
ww.129736	2453483	4	5.6	07/16/2012
ww.117765	2453454	4	8.5	07/10/2012
ww.107774	2453477	4	6	07/11/2012
ww.103716	2406849	4	10.2	06/26/2012
ww.125748	2406851	4	6.6	07/02/2012
ww.131759	2406850	4	10.6	07/02/2012
ww.127717	2406847	4	6.7	06/13/2012
ww.103706	2406846	4	5.4	07/09/2012
ww.113777	2406845	4	8.8	07/05/2012
ww.115768	2406844	4	6.7	07/05/2012
ww.125742	2406840	4	8.2	07/05/2012
ww.131748	2406841	4	7.9	06/28/2012
ww.103707	2406838	4	9.9	06/28/2012

2012 - Manhole Evaluation and Rehabilitation Project

Manhole Evaluation and Rehabilitation Project				
CSU Location ID #	Work Order #	Diameter (feet)	Depth (feet)	Date Complete
ww.131747	2406839	4	10.2	06/28/2012
ww.111744	2406843	4	6.5	07/03/2012
ww.109784	2406842	4	8.1	07/03/2012
ww.109789	2453478	4	10.6	07/11/2012
ww.109787	2453481	4	5.8	07/11/2012
ww.107768	2453451	4	8.9	07/18/2012
ww.131756	2453482	4	8.6	07/18/2012
ww.129735	2453474	4	4.5	08/28/2012
ww.127727	2406873	4	8	09/05/2012
ww.131765	2406872	4	8	09/05/2012
ww.115755	2406865	4	8.8	09/05/2012
ww.105769	2477251	4	9.9	09/14/2012
ww.109794	2477240	4	6.9	09/13/2012
ww.121646	2477234	4	8.8	09/14/2012
ww.113785	2477231	4	8.1	09/13/2012
ww.103720	2477228	5	9.5	09/13/2012
ww.117767	2477227	5	9.8	09/14/2012
ww.117771	2477244	4	6.8	09/11/2012
ww.127726	2477241	4	7.7	09/11/2012
ww.105767	2477256	4	8.1	10/08/2012
ww.113789	2477249	4	7.6	10/11/2012
ww.182347	2477257	4	9.9	10/11/2012
ww.103718	2477223	4	6.8	09/13/2012
ww.119713	2477239	4	4.6	10/15/2012
ww.117769	2477232	4	10.1	10/08/2012
ww.109798	2477261	4	10.3	09/11/2012
ww.103725	2477255	4	7.3	10/09/2012
ww.107778	2477258	4	7.3	10/11/2012
ww.103724	2477250	4	15.6	09/14/2012
ww.113786	2477236	4	13	10/11/2012
ww.109790	2477220	4	6.6	10/15/2012
ww.111788	2479504	4	11.4	09/07/2012
ww.131795	2479505	4	10.9	09/07/2012
ww.125790	2479506	4	6.2	09/14/2012
ww.107813	2479507	4	5	09/14/2012
ww.127765	2479508	4	7.4	09/18/2012
ww.111791	2479509	4	9.4	09/18/2012
ww.115807	2479510	4	9.3	09/18/2012
ww.103799	2479511	4	9.9	09/05/2012
ww.113820	2479512	4	8.5	09/06/2012
ww.129766	2479513	4	11.6	09/28/2012
ww.107816	2479514	4	10.9	09/26/2012
ww.103801	2479515	4	8.1	09/26/2012
ww.103800	2479516	4	9.5	09/06/2012
ww.113823	2479517	4	8.9	09/20/2012
ww.111793	2479518	4	8.2	09/26/2012
ww.127768	2479519	4	8.8	09/19/2012
ww.121689	2479520	4	9.3	09/20/2012
ww.103802	2479521	4	7.4	09/20/2012
ww.115811	2479524	4	7.2	09/20/2012
ww.131801	2479525	5	10.4	10/05/2012
ww.127770	2479526	4	7.5	09/27/2012
ww.123328	2479527	4	7.4	09/27/2012
ww.125371	2479528	4	6.9	09/28/2012
ww.168682	2479529	4	8.2	09/19/2012
ww.113824	2479530	4	4.8	09/19/2012
ww.107814	2479531	4	5.2	09/07/2012
ww.127769	2479533	4	6.3	10/01/2012
ww.103797	2479535	4	8.6	09/06/2012
ww.131794	2479536	4	8.9	09/19/2012
ww.111787	2479537	4	6	09/18/2012
ww.103795	2479538	4	5.8	09/14/2012
ww.113819	2479539	4	6.8	09/18/2012
ww.119756	2479540	4	9.7	09/07/2012
ww.121691	2479541	4	7.3	09/26/2012
ww.123791	2479542	4	7.9	09/20/2012
ww.113825	2479543	4	6.8	09/20/2012
ww.134804	2479545	4	9.2	09/27/2012
ww.109454	2479546	4	4.9	09/25/2012
ww.102988	2479548	4	4.9	09/25/2012
ww.111393	2479549	4	5.3	09/25/2012
ww.107416	2479550	4	6	09/25/2012
ww.119757	2479551	4	8.4	09/06/2012
ww.111399	2479552	5	18.9	10/04/2012
ww.103499	2432413	4	14	07/31/2012
ww.168623	2432414	5	11.4	07/23/2012
ww.195116	2432415	6	16.2	08/02/2012
ww.127599	2432416	5	22	08/01/2012
ww.103437	2432417	5	22	07/31/2012
ww.169300	2432418	5	16.3	07/30/2012
ww.103432	2432420	5	14.3	07/30/2012
ww.109670	2432421	6	13.8	07/27/2012
ww.131482	2432423	6	13.6	05/29/2012
ww.117513	2432424	6	13	05/30/2012
ww.131494	2432426	6	17	05/31/2012
ww.119452	2432429	6	13	05/30/2012
ww.123421	2432430	6	13	06/27/2012
ww.113558	2432431	6	15	06/15/2012
ww.123558	2432432	6	15	06/05/2012

2012 - Manhole Evaluation and Rehabilitation Project

Manhole Evaluation and Rehabilitation Project				
CSU Location ID #	Work Order #	Diameter (feet)	Depth (feet)	Date Complete
ww.123557	2432433	5	13	06/12/2012
ww.131648	2432434	5	16.3	06/13/2012
ww.107672	2432435	5	15.2	06/11/2012
ww.113690	2432436	5	10.6	05/31/2012
ww.107639	2432438	5	12.6	07/27/2012
ww.105620	2432439	6	10	06/27/2012
ww.103427	2432440	4	7.5	06/27/2012
ww.123531	2432441	4	11	06/22/2012
ww.119582	2432443	5	12.7	06/22/2012
ww.111613	2432444	5	13	07/24/2012
ww.189992	2432445	6	11	08/06/2012
ww.186566	2432446	5	15.7	07/24/2012
ww.131613	2432447	6	14.7	07/25/2012
ww.131596	2432448	6	13.6	07/25/2012
ww.131595	2432449	6	8.6	07/25/2012
ww.109635	2432450	5	13.2	07/11/2012
ww.129577	2432451	5	12.5	07/11/2012
ww.119552	2432452	4	13.3	07/11/2012
ww.113651	2432454	4	14.2	07/11/2012
ww.113628	2432455	4	15.1	07/11/2012
ww.103347	2432456	5	15.6	07/10/2012
ww.113624	2432457	4	15	08/07/2012
ww.131561	2432458	4	13.5	08/07/2012
ww.117624	2432459	6	13.6	06/22/2012
ww.103319	2432461	5	17.9	07/12/2012
ww.111565	2432462	5	13.4	07/12/2012
ww.113588	2432463	5	26	07/23/2012
ww.123455	2432464	6	16	07/20/2012
ww.107550	2432465	5	15.2	07/16/2012
ww.117546	2432466	5	13.9	07/18/2012
ww.123457	2432468	5	16.5	07/16/2012
ww.117542	2432469	5	13.8	07/17/2012
ww.120606	2432470	6	13.4	08/07/2012
ww.108663	2432471	6	16	08/02/2012
ww.124548	2432472	4	12	08/06/2012
ww.124550	2432473	5	11	08/03/2012
ww.124549	2432474	5	9.7	08/03/2012
ww.112721	2432475	5	14.3	08/30/2012
ww.127507	2432476	5	18.3	08/30/2012
ww.117543	2432477	5	9.1	08/29/2012
ww.101331	2467695	5	21	08/09/2012
ww.101428	2467701	5	16.2	08/09/2012
ww.104591	2467707	6	16	08/08/2012
ww.116596	2467710	6	20.3	08/08/2012
ww.101318	2467711	5	21	08/23/2012
ww.116544	2467712	5	16.1	08/17/2012
ww.108558	2467713	5	17.1	08/17/2012
ww.110556	2467717	5	15.1	08/14/2012
ww.120467	2467720	5	20	08/23/2012
ww.126502	2467723	4	16	08/11/2012
ww.114595	2467724	5	19.5	08/11/2012
ww.114597	2467725	4	5.1	10/03/2012
ww.118523	2467727	5	22	08/10/2012
ww.104545	2467731	5	21	08/10/2012
ww.112572	2467735	5	21	08/10/2012
ww.101090	2467736	5	18.9	08/28/2012
ww.101109	2467742	5	13.3	08/24/2012
ww.106414	2467743	5	12.5	08/24/2012
ww.173826	2467744	5	19.3	08/27/2012
ww.122363	2467745	4	9.4	08/28/2012
ww.173828	2467746	5	14.1	08/27/2012
ww.186185	2467747	6	9.3	09/10/2012
ww.114715	2467748	5	15.1	09/20/2012
ww.191110	2467749	5	14.1	08/29/2012
ww.191154	2467750	4	16	09/10/2012
Total				425





January 31, 2014

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P.O. Box 36900  
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Subject: Southern Delivery System Permit Compliance Annual Report (Calendar Year 2013)

Mr. Ryan:

Colorado Springs Utilities, the Southern Delivery System (SDS) Project Manager, hereby submits the attached Permit Compliance Annual Report for Calendar Year 2013. Submittal of this report demonstrates the SDS Project's progress in successfully implementing the commitments prescribed in the SDS ROD, Reference No.: GP-2009-01, , as well as meeting the annual reporting requirements for other programmatic permits and approvals.

Please contact me at 719-668-8037, or Mark Pifher at 719-668-8693, with any questions regarding the attached report.

Sincerely,

John A. Fredell  
Southern Delivery System Program Director

Enclosure

cc: City of Fountain, Curtis Mitchell, Director of Utilities  
Colorado Department of Public Health and Environment, Steven Gunderson, Director,  
Water Quality Control Division  
Colorado Parks and Wildlife, Dan Prenzlowl, Regional Manager, Southeast Region  
Fountain Creek Watershed Flood Control and Greenway District, Larry Small, Executive  
Director  
Pueblo County Planning & Development, Joan Armstrong, Director  
Pueblo West Metropolitan District, Scott Eilert, Director of Utilities  
Security Water and Sanitation District, Roy Heald, District Manager  
U.S. Army Corps of Engineers, Antoinette Gant, Lieutenant Colonel, U.S. Army, District  
Commander

# **Southern Delivery System Permit Compliance Annual Report**

## **Calendar Year 2013**

Prepared for:

**Bureau of Reclamation**

**Colorado Department of Public Health and  
Environment**

**Colorado Division of Parks and Wildlife**

**El Paso County**

**Pueblo County**

**Fountain Creek Watershed Flood Control and  
Greenway District**

Submitted by:

**Colorado Springs Utilities, SDS Project Manager  
on behalf of the SDS Participants**

January 2014

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# Acronyms and Abbreviations

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1041 Permit	Pueblo County 1041 Permit No. 2008-002
BMPs	Best Management Practices
CPW	Colorado Parks and Wildlife
CDPHE	Colorado Department of Public Health and Environment
CWC	Colorado Wildlife Commission
CWCB	Colorado Water Conservation Board
EMS	Environmental Management System
FEIS	Final Environmental Impact Statement
FWMP	Fish and Wildlife Mitigation Plan
GMP	Geomorphic Mitigation Plan
IAMP	Integrated Adaptive Management Plan
mgd	million gallons per day
MP	Monitoring Plan
NEPA	National Environmental Policy Act
PCAR	Permit Compliance Annual Report
PDC	Pueblo Dam Connection
Reclamation	Bureau of Reclamation
ROD	Record of Decision
SCMP	Socioeconomic Construction Management Plan
SDS	Southern Delivery System Project
SDS Participants	City of Colorado Springs, City of Fountain, Security Water District, and Pueblo West Metropolitan District
USACE	United States Army Corps of Engineers
USGS	United States Geological Survey
UWCR	Upper Williams Creek Reservoir
WCR	Williams Creek Reservoir
WTP	water treatment plant

# Executive Summary

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The Southern Delivery System Project (SDS) is a regional water delivery system that will serve the City of Colorado Springs (via Colorado Springs Utilities), City of Fountain, Security Water District, and Pueblo West Metropolitan District (collectively, the SDS Participants).

## Purpose

The purpose of the SDS Permit Compliance Annual Report (PCAR), submitted by Colorado Springs Utilities, the SDS Project Manager, is to demonstrate progress in successfully implementing the commitments as prescribed in the Record of Decision (ROD) to the Bureau of Reclamation (Reclamation). Colorado Springs Utilities also reviewed the other six programmatic permits/approvals that are in place to identify the annual reporting requirements of each. The following four permits/approvals have annual reporting requirements addressed in this report:

- El Paso County Location Approvals
  - Planning Commission Resolution U-09-002, March 2, 2010, Southern Delivery System Raw Water Pipelines, Amended by Resolution U-12-001, October 18, 2012
  - Planning Commission Resolution U-09-003, March 2, 2010, Southern Delivery System Finished Water Pipelines, Amended by Resolution U-12-003, October 18, 2012
  - Planning Commission Resolution U-09-004, March 16, 2010, Southern Delivery System Bradley Pump Station
  - Planning Commission Resolution U-09-005, March 16, 2010, Southern Delivery System Upper Williams Creek Reservoir, Amended by Resolution U-12-002, October 18, 2012
  - Planning Commission Resolution U-09-007, March 16, 2010, Southern Delivery System Exchange Flow System, Amended by Resolution U-12-004, October 18, 2012
- Pueblo County Board of County Commissioners Resolution No. P&D 09-22 approving 1041 Permit No. 2008-02, April 21, 2009
- Fountain Creek Watershed, Flood Control and Greenway District (District) Resolution 2010-01, February 26, 2010
- Colorado Department of Public Health and Environment (CDPHE) 401 Certification No. 4224, April 23, 2010, which includes the requirement to provide copies of all other annual reports

The following two programmatic permits/approvals do not specifically include annual reporting requirements.

- Memorandum of Agreement with the State of Colorado, Department of Natural Resources on behalf of the Colorado Division of Wildlife regarding the Fish and Wildlife Mitigation Plan, May 18, 2010
- United States Army Corps of Engineers (USACE) Clean Water Act Section 404 Individual Permit No. SPA-2005-00131-SCO, April 26, 2010

## Reporting Requirements

The ROD requires annual reporting to summarize the SDS's progress made in implementing the ROD commitments. Colorado Springs Utilities has elected to develop a single SDS PCAR that addresses the ROD commitments and the other annual or periodic reporting requirements included in the programmatic permits/approvals that are listed above.

## Summary of SDS Activities During this Reporting Period

The SDS has met a number of key milestones during this reporting period associated with the design, construction, and completion of various work packages. Construction on 10 pipeline work packages began, continued, or were revegetated during the reporting period, with approximately miles of pipeline installed. Design was completed on the remaining pipeline work packages. Design of the raw water pump stations was completed and construction of water treatment plant and the raw water pump stations began.

Colorado Springs Utilities also continued identification of locations for wetland construction to mitigate the 12.0 acres of non-jurisdictional wetlands affected as a result of SDS and construction began on a portion of this area. Transition of Phase I EMS to Phase II EMS was completed, with on-going effort to track compliance with programmatic permit/approval commitments and construction permit requirements, and included permitting and compliance requirements in design drawings and specifications, as required, for those work packages still in design.

# 1.0 Introduction

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## 1.1 Purpose

The purpose of the SDS Permit Compliance Annual Report (PCAR), submitted by Colorado Springs Utilities as SDS Project Manager, is to demonstrate the progress in successfully implementing the commitments identified in the ROD (Reclamation 2009). This PCAR has been prepared to be consistent with the ROD and other permits issued by agencies having jurisdiction over SDS, specifically the following programmatic permits/approvals:

- Bureau of Reclamation Record of Decision for the Southern Delivery System Final Environmental Impact Statement, Record of Decision Reference No. GP-2009-01, March 20, 2009
- El Paso County Location Approvals
  - Planning Commission Resolution U-09-002, March 2, 2010, Southern Delivery System Raw Water Pipelines, Amended by Resolution U-12-001, October 18, 2012
  - Planning Commission Resolution U-09-003, March 2, 2010, Southern Delivery System Finished Water Pipelines, Amended by Resolution U-12-003, October 18, 2012
  - Planning Commission Resolution U-09-004, March 16, 2010, Southern Delivery System Bradley Pump Station
  - Planning Commission Resolution U-09-005, March 16, 2010, Southern Delivery System Upper Williams Creek Reservoir, Amended by Resolution U-12-002, October 18, 2012
  - Planning Commission Resolution U-09-007, March 16, 2010, Southern Delivery System Exchange Flow System, Amended by Resolution U-12-004, October 18, 2012
- Pueblo County Board of County Commissioners Resolution No. P&D 09-22 approving 1041 Permit No. 2008-02, April 21, 2009
- Fountain Creek Watershed, Flood Control and Greenway District (District) Resolution 2010-01, February 26, 2010
- Colorado Department of Public Health and Environment (CDPHE) 401 Certification No. 4224, April 23, 2010, which includes the requirement to provide copies of all other annual reports

Colorado Springs Utilities reviewed all seven of the programmatic permits/approvals that are in place to identify annual reporting requirements of each. The following two programmatic permits/approvals do not specifically include annual reporting requirements.

- Memorandum of Agreement with the State of Colorado, Department of Natural Resources on behalf of the Colorado Division of Wildlife regarding the Fish and Wildlife Mitigation Plan, May 18, 2010
- United States Army Corps of Engineers Clean Water Act Section 404 Individual Permit No. SPA-2005-00131-SCO, April 26, 2010

Colorado Springs Utilities prepared an Environmental Commitment Plan and developed a Phase I Environmental Management System (EMS) to track compliance with the commitments associated with all of the programmatic permits/approvals.

## 1.2 Southern Delivery System Project Overview

SDS is a proposed regional water delivery project that will serve the City of Colorado Springs (via Colorado Springs Utilities), City of Fountain, Security Water District, and Pueblo West Metropolitan District (collectively, the SDS Participants).

The first phase of SDS includes construction of the following facilities:

- A 53-mile raw water pipeline (66- and 72-inch diameter)
- Two 78-million-gallon-per-day (mgd) raw water pump stations and one 50-mgd raw water pump station (expandable in Phase 2)
- A water treatment plant (WTP) with a capacity of 50 mgd (expandable in Phase 2)
- Approximately seven miles of finished water pipelines up to 54 inches in diameter

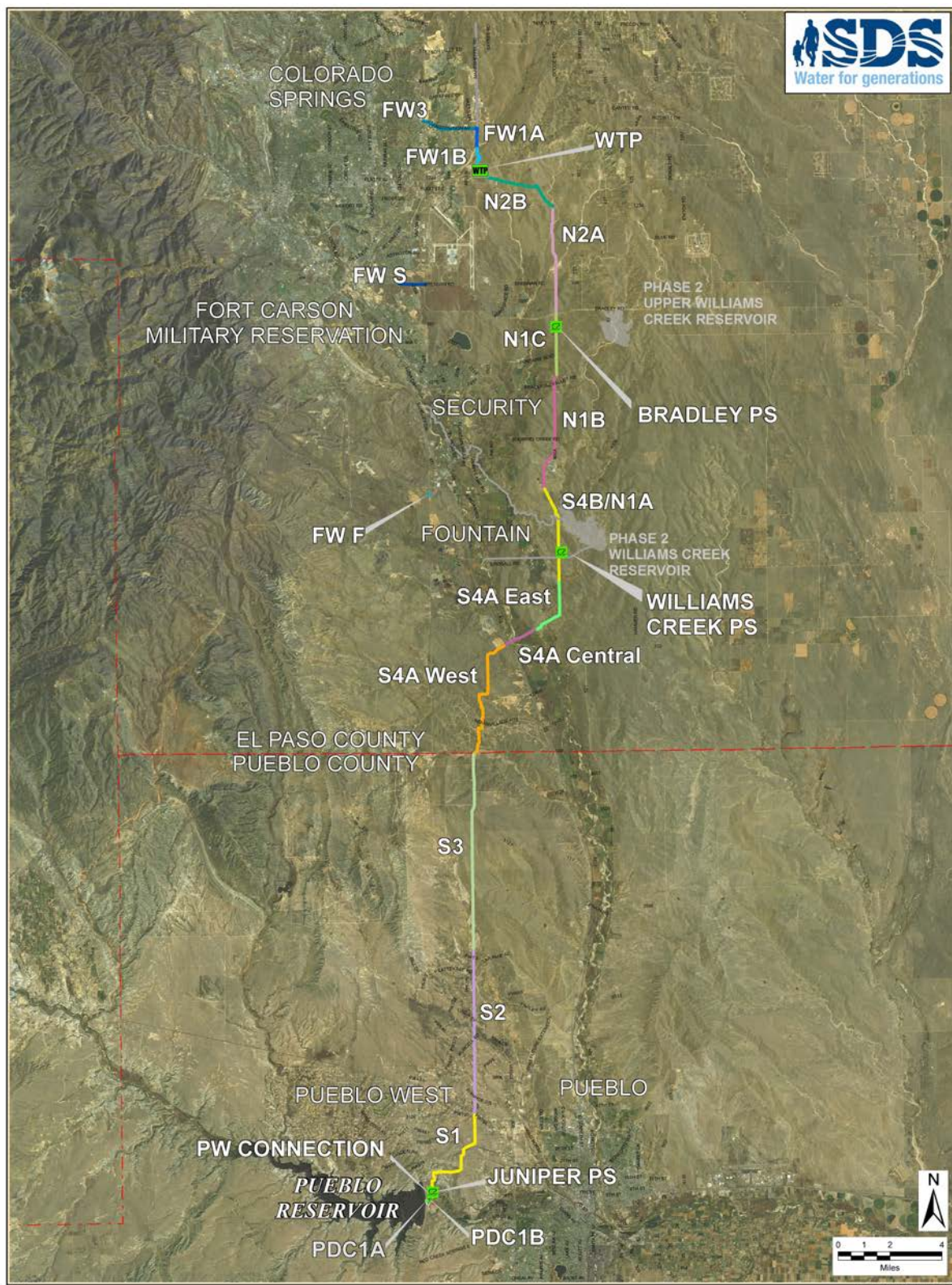
Phase 2 of SDS includes the following:

- A 30,500 acre-feet terminal storage reservoir on upper Williams Creek, Upper Williams Creek Reservoir (UWCR)
- Expansion of the 50-mgd raw water pump station and WTP to 100-mgd capacity
- Expansion of the treated water delivery system
- A 28,000 acre-feet exchange storage reservoir on Williams Creek, Williams Creek Reservoir and exchange conveyance facilities to transfer exchange water to and from Fountain Creek

SDS has been broken down into various work packages. The work packages and the facilities identified above are shown on Figure 1.



FIGURE 1. SOUTHERN DELIVERY SYSTEM WORK PACKAGES AND FACILITIES



## 1.3 SDS Participant Information

Contact details for the SDS Participants and their authorized agent are as follows.

### 1.3.1 SDS Participants

#### Colorado Springs Utilities

(Authorized agent acting on behalf of Participants)

Contact: John Fredell, SDS Program Director  
Plaza of the Rockies, Third Floor  
121 S. Tejon, MC930  
Colorado Springs, CO 80947  
Phone: (719) 668-8037; Fax: (719) 668-8734  
E-mail: jfredell@csu.org

#### Security Water District (Participant)

Contact: Roy Heald, District Manager  
231 Security Blvd.  
Security, CO 80911  
Phone: (719) 392-3475; Fax: (719) 390-7252  
E-mail: r.heald@securitywsd.com

#### City of Fountain (Participant)

Contact: Curtis Mitchell, Director of Utilities  
116 S. Main St.  
Fountain, CO 80817  
Phone: (719) 322-2040; Fax: (719) 322-2011

E-mail: cmitchell@fountaincolorado.org Pueblo West Metropolitan District (Participant)

Contact: Scott Eilert, Utilities Director  
109 E. Industrial Blvd.  
Pueblo West, CO 80017  
Phone: (719) 547-5044; Fax: (719) 547-2833  
E-mail: seilert@pwmd-co.us

## 1.4 Southern Delivery System Project Regulatory Review Process

SDS has undergone, and continues to undergo, significant regulatory oversight at the federal, state, and local levels. At the federal level, Reclamation has performed extensive and detailed environmental studies as a part of the National Environmental Policy Act (NEPA) process, the culmination of which was a Final Environmental Impact Statement (FEIS) and issuance of a ROD.

The ROD for SDS was issued on March 20, 2009. It identified SDS, as shown on Figure 1, as the Preferred Alternative. SDS has been determined to cause “the least damage to the

biological and physical environment” (Reclamation 2009). The ROD included extensive commitments by the SDS Participants to significant, long-term mitigation measures.

Because SDS crosses wetlands and other waters of the United States, it requires a permit from the USACE under the dredge and fill material permit program established under Section 404 of the federal Clean Water Act. A Section 404 Permit was received for SDS on April 26, 2010. Colorado Springs Utilities has developed new wetlands as compensatory mitigation under the Section 404 Permit, and provided copies of the mitigation plans to the Fountain Creek Watershed, Flood Control, and Greenway District for review. The jurisdictional wetlands mitigation project was reviewed and approved by the USACE and Fountain Creek Watershed, Flood Control, and Greenway District prior to its construction in September 2011.

At the state level, the SDS Section 404 Permit received a Certification under Section 401 of the Clean Water Act from the Colorado Department of Public Health and Environment (CDPHE) on April 23, 2010. In February 2011, the State Water Quality Control Commission denied a challenge to the CDPHE (Water Quality Control Division) certification and upheld the certification. In April 2012, the Pueblo County District Court determined that the Commission action was not supported by the administrative record and remanded the certification. In July 2013, the Colorado Court of Appeals ruled that the state Water Quality Control Commission’s approval of the SDS certification was consistent with applicable laws and regulations and was supported by substantial evidence.

The Colorado Parks and Wildlife (CPW) also reviewed SDS, and the SDS Fish and Wildlife Mitigation Plan (FWMP) was prepared collaboratively with CPW staff and approved by both the Colorado Wildlife Commission (CWC) and the Colorado Water Conservation Board (CWCB) (Colorado Springs Utilities, City of Fountain, Security Water District, Pueblo West Metropolitan District, and Colorado Division of Wildlife 2010a). A Memorandum of Agreement implementing the FWMP was executed with the CPW on May 18, 2010.

At the county and city levels, SDS is subject to a variety of regulatory reviews and associated mitigation requirements, including the following:

- Pueblo County 1041 Permit (No. 2008-002),
- El Paso County Approval of Location and Site Development Plan processes, and
- Land use approval by the Fountain Creek Watershed, Flood Control, and Greenway District (District).

Collectively, these permit conditions include comprehensive and extensive mitigation requirements, which are detailed in the respective resolutions of approval.

## 2.0 Listing of Permit Compliance Reporting Requirements for SDS

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A detailed and specific listing of the permit compliance reporting requirements for SDS for the seven programmatic permits and approvals received for SDS is provided in Attachment 1 – Annual Implementation Progress Matrix.

The Annual Implementation Progress Matrix contains:

- A listing of the environmental commitments for SDS with annual reporting requirements (columns 1 and 2).
- A description of SDS implementation progress towards compliance with each of the commitments (column 3).
- A field to show if additional documentation is included in an attachment to this report (column 4).

Supporting documentation listed in column 4 is provided in the following attachments:

- Attachment 2 - Monthly Average Flow Data from United States Geological Survey (USGS) Gauge Station
- Attachment 3 - Water Quality Monitoring Data
- Attachment 4 - Complaint Log
- Attachment 5 - Emergency Response Log
- Attachment 6 - Log of Work Occurring During Non-Typical Work Hours

## 3.0 Summary of SDS Activities Undertaken During the Reporting Period

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A number of actions have been taken during this reporting period related to the construction of SDS. Some of the key activities during this reporting period include the following:

### **Programmatic**

#### **Jurisdictional Wetlands Mitigation**

The initial construction of the jurisdictional wetlands mitigation, required to offset the permanent impact of 0.23 acres of jurisdictional wetlands by SDS, was completed in September 2011. Construction of the remainder of the wetlands and the surrounding riparian area was completed in April 2012. The second year of monitoring of the wetlands was completed and monitoring results were reported to the USACE. Progress was made towards the performance goals for the wetlands. The project is located at Clear Spring Ranch and consists of approximately 0.25 acres of wetland plants and another approximate 0.2 acres of surrounding riparian area.

#### **Pueblo Dam Connection (PDC1A)**

SDS construction activities were completed at the PDC1A in 2013. Activities at Pueblo Dam included maintenance of stormwater best management practices (BMPs), buttress door installation, actuator installation and testing, cone valve facility maintenance and roof replacement. The location of PDC1A is shown on Figure 1.

#### **PDC1B**

Construction of PDC1B began in August 2013. Activities at Pueblo Dam included installation and maintenance of stormwater BMPs, rock trenching, pipe installation and backfill. The location of PDC1B is shown on Figure 1.

#### **S1 Pipeline**

SDS construction activities on the S1 Pipeline continued in 2013. The construction activities at S1 included installation of BMPs, BMP maintenance, pipe backfill, grading, construction of combination air release and vacuum valves (CARVs) and blow-off structures, dewatering activities, pipe inspection and permanent fence installation. In addition, vegetation restoration activities began, including soil preparation, seeding, mulching, installation and testing of an irrigation system, and maintenance of the revegetation. The location of the S1 Pipeline is shown on Figure 1.

#### **S2 Pipeline**

SDS construction activities on the S2 Pipeline continued in 2013. The construction activities included maintenance of BMPs and installation of permanent fence. In addition, vegetation restoration continued, including soil preparation, seeding, mulching, and installation and

testing of an irrigation system, as well as maintenance of the revegetation. The location of the S2 Pipeline is shown on Figure 1.

### **S3 Pipeline**

SDS construction activities on the S3 Pipeline continued in 2013. The construction activities included maintenance of BMPs. In addition, vegetation restoration continued, including soil preparation, seeding, mulching, and installation and testing of an irrigation system, as well as maintenance of the revegetation. Colorado Springs Utilities has been working with the landowner along S3 in an effort to address damage from summer 2013 rainstorms. The location of the S3 Pipeline is shown on Figure 1.

### **S4A East/West**

SDS construction activities on the S4A East and S4A West Pipelines continued in 2013. The construction activities included installation and maintenance of BMPs, fence installation, clearing and grubbing, grading, sub-cut, trench excavation, pipe delivery, installation of pipe, pipe backfill, welding, dewatering and construction of the blow off assembly. In addition, vegetation restoration activities began, including soil preparation, seeding, mulching, installation and testing of an irrigation system, as well as maintenance of the revegetation. The location of the S4A East and West Pipelines are shown on Figure 1.

### **S4A Central**

Design for the S4A Central Pipeline was completed in 2013 and construction began in October 2013. Construction activities include installation and maintenance of BMPs and construction of a launch shaft. The location of the S4A Central Pipeline is shown on Figure 1.

### **S4B/N1A/N1B**

SDS construction activities on the S4B/N1A Pipeline continued in 2013. The construction activities included maintenance of BMPs. In addition, vegetation restoration continued, including soil preparation, seeding and mulching, as well as maintenance of the revegetation. The location of the S4B/N1A Pipeline is shown on Figure 1.

### **N1C/N2A**

Construction for the N1C/N2A Pipeline began in March 2013. Construction activities included installation of BMPs, BMP maintenance, rock trenching, pipe delivery, pipe installation, welding, pipe backfill, grading, road rehabilitation, construction of combination air release and vacuum valves (CARVs) and blow-off structures, dewatering activities, and hydrostatic testing. In addition, vegetation restoration began, including soil preparation, seeding and mulching. The location of the N1C/N2A Pipeline is shown on Figure 1.

### **N2B**

Design for the N2B Pipeline was completed in 2013. The location of the N2B Pipeline is shown on Figure 1.



### **FW3**

Design for the FW3 Pipeline was completed in 2013. The location of the FW3 Pipeline is shown on Figure 1.

### **WTP**

Construction of the SDS WTP began in March 2013. Activities included installation of BMPs, BMP maintenance, mass excavation, installation of fiber optics, temporary power and water, deep dynamic compaction, erection of two tower cranes, placement of rebar, pouring of concrete for structural walls for the process building and finished water pump station. The location of WTP is shown on Figure 1.

### **RWPS**

Design for the three raw water pump stations (RWPS), Bradley Pump Station (BPS), Williams Creek Pump Station (WCPS) and Juniper Pump Station (JPS), was completed and construction began in 2013. Activities included installation of BMPs, BMP maintenance, installation of fiber optics and temporary power, mass excavation at JPS and WCPS, and construction of a stormwater pond at BPS. The locations of the 3 RWPS are shown on Figure 1.

Work was also undertaken on the power supplies for the RWPS. Construction for the BPS power supply began in October 2012 and continued into 2013. Construction activities included BMP installation and maintenance, installation of overhead power poles and lines, trench excavation, conduit installation, concrete backfill, trench backfill, trenchless crossings of Bradley Road and Marksheffel Road, and drainage crossings, vault installation, installation of electrical cables, grading, seeding, and mulching. Construction for the WCPS power supply occurred in 2013 and included BMP installation and maintenance, installation of overhead power poles and lines, trench excavation, conduit installation, concrete backfill, trench backfill, overhead crossings of Interstate 25 and Fountain Creek, vault installation, installation of electrical cables, grading, seeding, and mulching.

### **Other**

In addition to the milestones listed above, Colorado Springs Utilities engaged in other initiatives of note during the reporting period, some of which will be on-going through the construction and operation of SDS:

- Continued identification of locations for wetlands construction to mitigate the 12.0 acres of non-jurisdictional wetlands that will be permanently impacted as a result of SDS.
- Fountain Creek realignment design has progressed with design completed and the construction contractor making progress on drop control structures and channel grading.
- Completed transition of Phase I EMS to Phase II EMS, with on-going effort to track compliance with programmatic permit/approval commitments and construction permit requirements.
- Inclusion of permitting and compliance requirements in design drawings and specifications, as required, for those work packages still in design.

- Colorado Springs Utilities, or its selected contractors, continue to obtain a number of construction-related permits. The acquisition of these permits as well as the compliance with these permits is being tracked through the Phase I EMS.
- Colorado Springs Utilities continues to work cooperatively with the City of Colorado Springs, El Paso County and other regional governmental entities as part of a Stormwater Task Force effort. Phase 1 of the Task Force activities, which concluded on January 10, 2013, included the identification by stakeholders of potential stormwater project needs within the area and existing stormwater control budgets. A Citizens Team and a Business Team provided additional information and advice to the Task Force on January 17, 2013. The El Paso County Commissioners and Colorado Springs City Council decided to proceed forward in the effort, including funding outside engineering studies of the identified projects. Significant progress was made upon the City Drainage Criteria Manual (DCM). Adjustments are in progress and once accepted by CDPHE, the final DCM will be placed before City Council. City Council and the County Commissioners passed a new resolution in support of a regional stormwater solution. Apart from specific permit requirements, the Phase II Task Force group advanced the dialogue upon stormwater governance and funding options. The CH2M Hill report on capital project needs was finalized for the City and El Paso County. A joint meeting between the Mayor and Task Force members, including City Council and El Paso County Commissioners, was held.



## 4.0 References

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- Bureau of Reclamation. 2008. Southern Delivery System Final Environmental Impact Statement. December.
- Bureau of Reclamation. 2009. Record of Decision for the Southern Delivery System Project Final Environmental Impact Statement. Record of Decision Reference No. GP-2009-01. Colorado Department of Public Health and Environment. 2010. Section 401 Water Quality Certification; Colorado 401 Certification No.: 4224; U.S. COE 404 Permit No.: SPA-1995-00131-SCO; Description: Southern Delivery System; Location: El Paso and Pueblo Counties; Watercourse: Arkansas River, Fountain Creek and tributaries; Designation: Reviewable (MA01, MA02, MA03, FO02a, FO02b); Use Protected: (FO04, LA01a, LA01b). April 23
- Colorado Springs Utilities, City of Fountain, Security Water District, Pueblo West Metropolitan District, and Colorado Division of Wildlife. 2010a. Southern Delivery System Fish and Wildlife Mitigation Plan. March 11.
- El Paso County. 2010. Planning Commission Resolution U-09-002. For the Approval of Location of the Southern Delivery System Raw Water Pipeline within the A-5 (Agricultural), PUD (Planned Unit Development), RR - 2.5 (Rural Residential) and RR-5 (Residential Rural) Zone District. March 2.
- El Paso County. 2010. Planning Commission Resolution U-09-003. For the Approval of Location of the Southern Delivery System Finished Water Pipeline within the PUD (Planned Unit Development) Zone District. March 2.
- El Paso County. 2010. Planning Commission Resolution U-09-004. For the Approval of Location of the Southern Delivery System Bradley Pump Station within the RR-5 (Residential Rural) Zone District. March 16.
- El Paso County. 2010. Planning Commission Resolution U-09-005. For the Approval of Location of the Upper Williams Creek Reservoir within the RR-5 (Residential Rural) Zone District. March 16.
- El Paso County. 2010. Planning Commission Resolution U-09-007. For the Approval of Location of the Exchange Flow System within the RR-5 (Residential Rural) Zone District. March 16.
- Fountain Creek Watershed, Flood Control, and Greenway District. 2010. Board of Directors Resolution 2010-01 - Land Use. A Resolution recommending that the El Paso County Planning Commission approve applications by Colorado Springs Utilities and on behalf of the Project Participants for location approvals for the Southern Delivery System located within the Fountain Creek Watershed Management Area and approving those portions of the Southern Delivery System located within the Fountain Creek Corridor. February 26.

- Pueblo County. 2009. 1041 Permit No. 2008-002. The Board of County Commissioners of Pueblo County Colorado; A Resolution Approving 1041 Permit No.2008-002 With Terms and Conditions for Construction and Use of a Municipal Water Project Known as the Southern Delivery System within Pueblo County, Colorado. April 21.
- State of Colorado. 2010. Memorandum of Agreement by and between the State of Colorado, acting by and through the Department of Natural Resources, for the use and benefit of the Division of Wildlife and Colorado Springs Utilities, acting as the Project Manager for the Southern Delivery System. May 18.
- U.S. Army Corps of Engineers. 2010. Department of the Army Permit; Permittee: Colorado Springs Utilities; Permit No. SPA-2005-00131-SCO; Issuing Office: Albuquerque District, U.S. Army Corps of Engineers. April 26.

# Implementation Progress Matrix

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The cells in the implementation column have been color coded to indicate which conditions have been completed, are no longer applicable or are not required until SDS is operational. Cells in gray have either been completed or are no longer applicable. Cells in blue are not required until SDS is in operation.

# ATTACHMENT 1

## Annual Implementation Progress Matrix

Reporting Requirements		CY2013 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
<b>Bureau of Reclamation - Record of Decision</b>			
<b>Environmental Commitments</b>			
p. 11, ¶1	Such contracts will, at a minimum, include a requirement for the SDS Participants to submit to Reclamation an annual compliance report that certifies progress in successfully implementing these commitments in a timely manner as prescribed in this ROD and any contracts.	This Permit Compliance Annual Report is being prepared to demonstrate the progress in successfully implementing the commitments as prescribed in the ROD and the annual reporting requirements found in the other programmatic permits and approvals including: the Pueblo County 1041 Permit, the El Paso County Location Approvals, the CDPHE 401 Water Quality Certification and the Fountain Creek Watershed, Flood Control and Greenway District approval.	No
p. 11, ¶2	The Participants must obtain other significant Federal, State, and local permits, approvals, and agreements for the SDS Project.	The programmatic permits for the Southern Delivery System (SDS) are in place. The selected construction contractors are required through the contract documents to submit copies of all permits acquired. The SDS Participants are tracking the permit acquisition progress for each of the work packages as construction activities commence.	No
p. 11, ¶3	A detailed and specific list of environmental commitments and plan for their implementation will emerge from this coordination process.  The timing of this process is important. Coordination of implementation of the environmental commitment plan will occur prior to executing any contracts for the SDS Project.	An Environmental Commitments Plan was completed and submitted to the Bureau of Reclamation on March 18, 2011.	No
<b>Participants' Commitments: General Commitments</b>			
p. 12, Bullet 1	Comply with all applicable permits, regulations, and laws including but not limited to CDPHE, USCOE 404, and local land use permits obtained for the SDS Project.	Compliance with permit and regulatory requirements is being tracked through the implementation of an Environmental Management System (EMS). In addition, the construction contract documents for each of the work packages include permit and regulatory compliance requirements. The EMS ensures that all applicable actions necessary for compliance are taken in a timely manner.	No
p. 12, Bullet 2	Construct and operate the SDS Project in a manner that does not differ substantially from that evaluated in this FEIS, except under emergency conditions, and unless additional and appropriate environmental investigations are completed by Reclamation and approval is then given to Participants to alter construction or operation of the SDS Project.	The SDS Participants intend to construct and operate the preferred alternative that was identified in the FEIS in a manner that does not differ substantially from that evaluated in the FEIS.	No
p. 12, Bullet 3	Develop and implement a head pressure monitoring program on the Joint Use Manifold to isolate effects attributable to the SDS Project and to mitigate those effects if they were to occur. This program will be developed over a 3-year period from the date that water is first delivered from the Joint Use Manifold for the SDS project. Development of the monitoring program will include involvement of all other Joint Use Manifold users.	This commitment is no longer applicable to SDS. The Joint Use Manifold will not be used with the construction of the Pueblo Dam Connection at the North Outlet Works.	No

**ATTACHMENT 1**

## Annual Implementation Progress Matrix

Reporting Requirements		CY2013 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
p. 12, Bullet 4	Develop an integrated adaptive management program for the project that will be coordinated with the Participants' existing monitoring programs and the Environmental Management System discussed in Appendix F of the FEIS. The integrated adaptive management program will be finalized prior to executing any contracts for the SDS project.	An Integrated Adaptive Management Plan (IAMP) has been developed and was submitted to the Bureau of Reclamation on March 18, 2011. The requirements of the IAMP will be coordinated with the development of the Phase II EMS that Colorado Springs Utilities is developing. The requirements of the IAMP are not effective until SDS is operational.	No
<b>Participants' Commitments: Surface Water</b>			
p. 12, Bullet 1	Comply with the Upper Arkansas Voluntary Flow Management Program except during emergency conditions as defined in Section 2.b. of the Memorandum Of Understanding for Settlement of Case No. 04CW129, Water Division 2 (Chaffee County Recreation In-Channel Diversion).	The SDS Participants will comply with the Upper Arkansas Voluntary Flow Management Program.	No
p. 13, Bullet 2	Comply with the Pueblo Flow Management Program pursuant to existing intergovernmental agreements. If Reclamation and the Participants receive credible information that project operations are impairing physical diversion of a senior water right, contrary to Colorado water law, the Participants will immediately initiate discussions among the parties, including the party alleging the impairment of Reclamation, to develop a solution and remedy the impairment in compliance with Colorado water law.	The SDS Participants will comply with the Pueblo Flow Management Program.	No
p. 13, Bullet 3	Participants will consult with Reclamation each year on the average annual flow in Fountain Creek. If the average annual stream flow of Fountain Creek as measured at Pueblo (USGS gauge station number 07106500) exceeds the scope and range of the flow estimated and analyzed in the Final Environmental Impact Statement (see Table 33 of the FEIS), then Participants will coordinate with Reclamation, within their adaptive management plan, to evaluate the cause(s) for the change in flows and determine whether appropriate response actions, such as monitoring and/or mitigation measures, are warranted. Each year, Participants will report to Reclamation the average annual flow in Fountain Creek at Pueblo together with other relevant data.	The average annual flow during this reporting period in Fountain Creek as measured at USGS gauge station number 07106500 was approximately 150.3 cubic feet per second (cfs). Table 33 of the FEIS reported the average annual simulated streamflow at this location under existing conditions as 188 cfs and under the preferred alternative (Alt 2) as 253 cfs. As the Southern Delivery System was under construction during this reporting period, no flows have been introduced to Fountain Creek as a result of this project. See Attachment 2 for the monthly average flow data from USGS Gauge Station Number 07106500.	Attachment 2 - Monthly Average Flow Data from USGS Gauge Station Number 07106500
p. 13, ¶1	Surface water mitigation measures will resolve adverse effects to physical diversions of senior water rights.	This requirement is a summary statement of the specific surface water mitigation measures described in the three bullets listed above. The SDS Participants are implementing the surface water mitigation measures per the Upper Arkansas Voluntary Flow Management Program and the Pueblo Flow Management Program.	No
<b>Participants' Commitments: Water Quality</b>			
p. 13, Bullet 1	Include water quality monitoring and adaptive management within the integrated adaptive management program (see Participants' General Commitments).	The Monitoring Plan has been completed and was submitted to the Bureau of Reclamation on March 18, 2011.	No
p. 13, Bullet 2	Begin implementing water quality monitoring when construction of the project begins. This will allow about three years of baseline data to be collected before project operations begin.	A Joint Funding Agreement has been executed with the U.S. Geological Survey (USGS) on the water quality monitoring program. Water quality monitoring began in January, 2011.	Attachment 3 - Water Quality Monitoring Data

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## Annual Implementation Progress Matrix

Reporting Requirements		CY2013 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
p. 13, Bullet 3	Submit water quality monitoring data, including trend analyses, for the preceding calendar year to Reclamation by January 31st of the subsequent year.	A Joint Funding Agreement has been executed with the U.S. Geological Survey (USGS) on the water quality monitoring program. Water quality monitoring began in January, 2011. See Attachment 3 for the water quality monitoring data. USGS reports data on a water year basis (October-September). The annual report will present data based on that reporting period.  Trend analysis is not include in this year's report because the approved IAMP requires trend analysis after 5 years of data is available. Data has been collected for 3 years.	Attachment 3 - Water Quality Monitoring Data
p. 13, Bullet 4	If the Colorado Department of Public Health and Environment (CDPHE) determines that operation of the SDS Project is causing significant adverse water quality effects, the Participants will coordinate with Reclamation, CDPHE, and other interested parties to evaluate and select measures to mitigate adverse effects.	This requirement is not applicable yet as SDS is under construction and not operational at this time.	No
p. 13, Bullet 5	In the event that operation of the SDS Project causes, or threatens to cause, stream flows in the Arkansas River or other waterways to diminish to low levels that will contribute significantly to elevated concentrations/densities of dissolved selenium, <i>E. coli</i> , or sulfate, the Participants will coordinate with Reclamation, CDPHE, CDOW, and other interested parties to evaluate and select measures to mitigate adverse effects.	This requirement is not applicable yet as SDS is under construction and not operational at this time.	No
p. 13, ¶1	Development and implementation of a water quality monitoring and adaptive management plan will provide a means of detecting changes in water quality, judging whether they are likely caused by operation of the SDS Project, and addressing actual effects in a systematic manner. Additionally, implementation of the geomorphology mitigation measures (below) will reduce suspended sediment and total recoverable iron concentrations in Fountain Creek and the lower Arkansas River.	This requirement is a summary statement of the specific water quality commitments described in the five bullets listed above. The Monitoring Plan, Geomorphic Mitigation Plan and IAMP have been completed. These plans were submitted to the Bureau of Reclamation in March 2011. The plans will be implemented during the construction and operation of the SDS in accordance with this commitment.	No

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## Annual Implementation Progress Matrix

Reporting Requirements		CY2013 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
<b>Participants' Commitments: Geomorphology</b>			
p. 14, Bullet 1	Prepare a geomorphic mitigation plan and secure Reclamation approval prior to executing any contracts for the SDS Project. This plan could include, but is not limited to: <ul style="list-style-type: none"> <li>• Evaluate and consider strategies to remove sediments that reduce the effectiveness of Corps levees located near Fountain Creek at its confluence with the Arkansas River</li> <li>• Evaluate and consider strategies to increase the sinuosity of Fountain Creek at appropriate locations in order to reduce undesirable erosion and sedimentation</li> <li>• Evaluate and consider strategies at appropriate locations along Fountain Creek to reduce undesirable erosion and sedimentation</li> <li>• Select geomorphic mitigation measures for SDS Project effects that are, to the extent practicable, consistent with priority projects identified in the Corps of Engineers' Fountain Creek Watershed Study and the Fountain Creek Corridor Master Plan. Locations where geomorphic mitigation projects could occur include, but are not limited to:                             <ul style="list-style-type: none"> <li>• Fountain Creek at the Clear Spring Ranch site, directly upstream and downstream of the confluence of Little Fountain Creek and Fountain Creek (approximately 4 miles)</li> <li>• Fountain Creek from upstream of Fountain Boulevard to upstream of Colorado 85/87 at the Sand Creek confluence (approximately 3 miles)</li> </ul> </li> </ul>	A Geomorphic Mitigation Plan was completed and submitted to the Bureau of Reclamation on March 15, 2011. The Bureau of Reclamation approved this plan on April 26, 2011. Under the Geomorphic Mitigation Plan, data collection is to begin on or about October 15 following the start of project construction, or October 15 three years prior to the SDS commencing operations, whichever is later.  The Fountain Creek realignment design has progressed, with design completed and the construction contractor making progress on drop control structures and channel grading. Stakeholder communications regarding this mitigation effort continue and key stakeholders, including property owners, have been briefed on the status of this project. The NW 27 permit was obtained from the USACE and construction is expected to be completed during the 2nd quarter of 2014.	No
p. 14, Bullet 2	Complete pre-project geomorphic mitigation, including channel stabilization projects and non-structural options such as conservation easements, before the project is operational. Channel stabilization could include, but is not limited to, increasing stream sinuosity, flattening of steep side slopes, installation of grade control structures and use of buried riprap, erosion blankets, and/or vegetative cover for channel stabilization in areas of high and/or erosive velocities.	The SDS Participants have coordinated extensively with Pueblo County regarding the scope of a Fountain Creek dredging project. On August 30, 2010, an agreement was reached by which the SDS Participants provided approximately \$2.2 million in funding to Pueblo County for the Fountain Creek dredging project. The SDS Participants made this payment to Pueblo County on September 27, 2010.	No
p. 14, Bullet 3	Design and construct an energy dissipation structure that will protect against erosion at the outlet of the pipeline from Williams Creek Reservoir to Fountain Creek.	The design of the Williams Creek Reservoir is anticipated to begin during the period from 2020 to 2025. An energy dissipation structure at the pipe outlet will be incorporated into the design.	No
p. 14, Bullet 4	Evaluate and implement appropriate future geomorphic stabilization projects, if such future projects are determined to be necessary after the project is operational.	This requirement is not applicable yet as SDS is under construction and not operational at this time. It is yet to be determined if project operations will necessitate such projects.	No
p. 14, ¶1	When implemented, these recommendations will mitigate potential adverse effects on geomorphology by avoiding or minimizing effects of return flow discharges through an energy dissipation structure, compensating for anticipated effects, and responding to effects identified after project operations begin.	This requirement is a summary statement of the specific water quality commitments described in the five bullets listed above. A Geomorphic Mitigation Plan has been completed and will be implemented during the construction and operation of SDS in accordance with this commitment.	No

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## Annual Implementation Progress Matrix

Reporting Requirements		CY2013 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
<b>Participants' Commitments: Aquatic Life</b>			
p. 15, Bullet 1	Submit a proposed wildlife mitigation plan to the Colorado Wildlife Commission (Wildlife Commission) pursuant to C.R.S. 37-60-122.2. This proposal will include actions the Participants propose to mitigate impacts that the SDS Project may have on fish and wildlife. As required by that statute, the Wildlife Commission will evaluate the probable impact of the project on fish and wildlife and, if the Participants and Wildlife Commission cannot agree upon reasonable mitigation, the Wildlife Commission will make recommendations to the Colorado Water Conservation Board (CWCBC) regarding what it believes to be reasonable mitigation actions. If the Participants and the Wildlife Commission agree on a mitigation plan, the Wildlife Commission will submit that agreement to the CWCBC, which must adopt the agreement as the state's official position. If the Participants and the Wildlife Commission do not reach agreement on a mitigation plan, the CWCBC will consider the plan submitted by the Participants and the recommendations of the Wildlife Commission, which then becomes the State's official position, or submit its own recommendations to the Governor, who will ultimately determine the state's official position on the proposed wildlife mitigation plan.	A Wildlife Mitigation Plan was developed in cooperation with the Colorado Division of Wildlife, which was then submitted to the Colorado Wildlife Commission pursuant to C.R.S. 37-60-122.2. The Colorado Wildlife Commission approved the Wildlife Mitigation Plan and the Colorado Water Conservation Board adopted it. A Memorandum of Agreement between the SDS Participants and the Colorado Department of Natural Resources, on behalf of the Colorado Division of Wildlife, was executed May 18, 2010.	No
p. 15, Bullet 2	In the event that the operation of the SDS Project causes, or threatens to cause, stream flows in Fountain Creek or the Arkansas River to diminish to low levels that could contribute significantly to impairment of aquatic life, coordinate with Reclamation, CDPHE, CDOW and other interested parties to evaluate and select measures to mitigate adverse effects.	This requirement is not applicable yet as SDS is under construction and not operational at this time.	No
p. 15, Bullet 3	Evaluate and consider participation in CDOW fish hatchery programs.	The Memorandum of Agreement between the SDS Participants and the Colorado Department of Natural Resources, on behalf of the Colorado Division of Wildlife (CDOW), includes a commitment that Colorado Springs Utilities will either construct 7.5 acres of fish rearing ponds for warm water species or provide \$7.5M in funding to CDOW for this construction. The MOA stipulates that construction of four (4) acres of these ponds shall be completed no later than three years prior to the date Upper Williams Creek Reservoir is placed in service. The construction of the remaining 3.5 acres of rearing ponds shall be completed no later than five (5) years after Upper Williams Creek Reservoir is in service.	No



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Reporting Requirements		CY2013 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
p. 15, Bullet 4	Monitor the effects of the operation of the SDS Project upon aquatic life in Fountain Creek and the Arkansas River between Pueblo Dam and the Las Animas Gage. Aquatic sampling will be conducted once per year at up to 10 locations. Monitoring methods and locations will be identified in the proposed wildlife mitigation plan that will be submitted to the Colorado Wildlife Commission pursuant to C.R.S. 37-60-122.2. Use the information from this monitoring in the adaptive management program for the SDS Project.	This requirement is not applicable yet as SDS is under construction and not operational at this time.	No
p. 15, ¶1	When implemented, these recommendations will mitigate potential adverse effects on aquatic life by avoiding or minimizing effects, compensating for anticipated effects, and detecting and responding to effects identified after project operations begin.	This requirement is a summary statement of the specific aquatic life commitments described in the four bullets listed above. The SDS Participants will implement the Fish & Wildlife Mitigation Plan as well as the agreements from the MOA with the Colorado Department of Natural Resources during the construction and operation of SDS.	No
<b>Participants' Commitments: Wetlands, Waters, and Riparian Vegetation</b>			
p. 15, Bullet 1	Design final alignments and facilities to avoid and minimize wetland impacts.	The pipeline alignments and facilities are designed in accordance with the information that was submitted and approved by the USACE with the individual 404 permit application for SDS. The requirements of the 404 permit are included in the construction contract document for each work package, as applicable.	No
p. 15, Bullet 2	Assess alternative construction methods for pipeline crossings (i.e., directional drilling v. open cut) to minimize wetland and stream impacts.	Alternative construction methods for pipeline crossings were considered during the development of the individual 404 permit application for the SDS. The final design of pipeline crossings is in accordance with the information provided in the individual 404 permit where impacts to jurisdictional waters were described.	No
p. 16, Bullet 3	Mitigate impacts to jurisdictional and non-jurisdictional wetlands in areas of temporary, short-term effects such as pipeline crossings, on-site at the place of disturbance with similar wetlands and soils to replace existing wetland functions and values.	The construction contract documents for each work package, as applicable, include the 404 permit Nationwide Permit (NWP) 12 requirements for all temporary, short-term effects to jurisdictional and non-jurisdictional wetlands. The impacts will be mitigated on-site through the implementation of the NWP 12 requirements.	No

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Reporting Requirements		CY2013 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
p. 16, Bullet 4	Mitigate all unavoidable, permanent impacts to jurisdictional and non-jurisdictional wetlands with compensatory wetlands that replace existing wetland functions and values. Compensatory wetland mitigation will likely occur at the Clear Spring Ranch site on Fountain Creek downstream of the City of Fountain.	Colorado Springs Utilities procured engineering design services for the compensatory wetland mitigation project at the Clear Spring Ranch site. The SDS Participants presented the final design for Reclamation and USACE review and approval in April 2011. The jurisdictional wetlands mitigation project was constructed in September 2011 and completed in April 2012. Monitoring of this wetland continued in 2013 and progress was made towards the performance goals. Approximately 5 acres of non-jurisdictional wetlands mitigation will be included in the Fountain Creek realignment project.	No
p. 16, Bullet 5	Control Tamarisk that may establish around newly constructed reservoirs.	This requirement is not applicable yet as no reservoir construction has commenced for SDS during this reporting period.	No
p. 16, Bullet 6	Evaluate and consider a strategy to increase the sinuosity of Fountain Creek at appropriate locations in order to create wetlands areas.	The SDS Participants considered options to increase the sinuosity of Fountain Creek at the Clear Spring Ranch site in order to create wetland areas with the design of the compensatory wetland mitigation project. In addition, the Fountain Creek realignment design has progressed with design completed and the construction contractor making progress on drop control structures and channel grading. The realignment design includes area for wetlands.	No
p. 16, Bullet 7	Evaluate and consider the construction and maintenance of new areas of wetlands along Fountain Creek in order to participate in wetlands banking programs. Evaluate and consider cooperation with Colorado agencies to expand such a wetlands creation process.	The USACE verbally denied Colorado Springs Utilities the opportunity of a wetland banking partnership with Colorado agencies, stating that Colorado Springs Utilities cannot share the umbrella of a wetland banking tool. Therefore, there is no incentive for Colorado Springs Utilities and another agency to work together under the intent of this condition.	No
p. 16, ¶1	Mitigation plans for jurisdictional and non-jurisdictional wetlands will be submitted for approval by the Corps of Engineers and Reclamation, respectively. All design and planning measures for wetlands, waters, and riparian vegetation will be completed before any contracts for the SDS Project.	Mitigation plans for jurisdictional and non-jurisdictional wetlands were submitted for approval by the USACE and reclamation prior to construction of PDC1A. Colorado Springs Utilities procured engineering design services for the compensatory wetland mitigation project at the Clear Spring Ranch site. The SDS Participants presented the final design for Reclamation and USACE review and approval in April 2011. The jurisdictional wetlands mitigation project was constructed in September 2011.	No

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Reporting Requirements		CY2013 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
p. 16, ¶2	By reviewing the location of wetlands during final design, effects on wetlands can be avoided and minimized. Specifically, the pipeline construction corridors through wetlands will be reduced to the minimum width practicable. Similarly, construction methods that do not involve trenching through a wetland will avoid impacts. Wetlands mitigated in place and off-site will replace affected wetlands on a 1:1 ratio and will provide similar functions and values. The 404 permitting process is ongoing and the final off-site mitigation ration for jurisdictional wetlands for the 404 permit has not yet been determined.	This requirement is a summary statement of the specific wetlands, waters and riparian vegetation commitments described in the seven bullets listed above. The pipeline alignments and facilities have been designed in accordance with the information that was submitted and approved by the USACE with the individual 404 permit application for SDS, as applicable. Wetland impacts were minimized. The requirements of the 404 permit are included into the construction contract document for each work package, as applicable.	No
<b>Participants' Commitments: Vegetation</b>			
p. 16, Bullet 1	Prior to final design, review locations of Needle and Thread grass -Blue Grama Grasslands, high quality shrublands and woodlands, and other areas with desirable vegetation to determine design changes within the current study area that will avoid and minimize impacts.	Pre-construction wildlife and vegetation surveys are being completed as part of the final design for each of the work packages. The results of these surveys are being incorporated into the construction contract documents as necessary.	No
p. 16, Bullet 2	Replace mature trees (diameter at breast height of 12 inches or greater) within construction areas at a 1:1 ratio with the same or similar native species with available nursery container stock or pole plantings as soon as practicable after construction activities have ended.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 16, Bullet 3	For 1 year after construction, monitor the construction areas to determine if appropriate native vegetation is establishing. If native vegetation is not establishing, the site will be reseeded with appropriate species.	Revegetation efforts have begun or been completed on the PDC1A, S1, S2, S3, S4A West, S4A East, S4B/N1A, N1B, N1C, N2A, FW1A, and FW1B pipeline work packages. All of these work packages are being monitored following established protocols.	No
p. 16, Bullet 4	In the appropriate season prior to construction, survey potential construction areas with known populations of dwarf milkweed and other plant species of concern, to locate areas where impacts can be avoided and minimized to the extent practicable with design changes within the current study area. After identifying populations to avoid, mark populations within or nearby the construction easement as environmentally sensitive so that workers avoid inadvertent impacts.	Pre-construction wildlife and vegetation surveys are being completed for each of the work packages. The results of these surveys are being incorporated into the construction contract documents as necessary.	No
p. 17, Bullet 5	During construction, wash major construction equipment before it enters the site so that noxious weeds are not spread from other construction sites.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 17, Bullet 6	Use certified weed-free mulch after seeding construction areas.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 17, Bullet 7	Reseed construction areas with comparable native vegetation as soon as practicable after disturbance, using seed that does not contain any noxious weed seed.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No

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Reporting Requirements		CY2013 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
p. 17, Bullet 8	Monitor construction areas for 3 years after construction to assess if noxious weeds have invaded the site. If noxious weeds are present, weed control plans will be formulated and completed.	As part of the pre-construction vegetation surveys that are completed for each work package, a noxious weed survey is conducted. The noxious weed survey includes recommended weed control methods. This information is being incorporated into the contract documents. Monitoring of construction areas will continue for three years after construction to ensure that any necessary weed control is performed. Completed work packages are being monitored for noxious weeds, control plans are in place and observed noxious weeds have been treated consistent with these plans..	No
p. 17, Bullet 9	Because the project may indirectly increase the spread of tamarisk, the Participants will work with the Colorado Department of Agriculture's Colorado Noxious Weed Management Team on tamarisk issues in the Arkansas Valley including submitting a request for partnership evaluation.	The Fish and Wildlife Mitigation Plan has identified the inlet area at the Pueblo Reservoir as an area of specific interest and identified the Colorado Department of Agriculture's Colorado Noxious Weed Management as a consulting agency.	No
p. 17, ¶1	Impacts to plant species and communities of concern and other sensitive vegetation areas can be avoided and minimized during final design and implementation. Because mitigation measures such as transplanting of individuals are often unsuccessful, avoidance and minimization will ensure survival, especially of plant species of concern. Seeding disturbed areas, replacing mature trees, and controlling noxious weeds will replace existing vegetation types and structural diversity and will ensure that high quality habitat remained.	As described in the previous nine responses, numerous measures are being implemented to minimize potential impacts to plant species and communities of concern and other sensitive vegetation areas. For this item and the previous nine, no concerns have been identified to date.	No
<b>Participants' Commitments: Wildlife</b>			
p. 17, Bullet 1	Submit a proposed wildlife mitigation plan to Colorado Wildlife Commission pursuant to C.R.S. 37-60-1212.2 as described above.	A Wildlife Mitigation Plan was developed in cooperation with the Colorado Division of Wildlife , which was then submitted to the Colorado Wildlife Commission pursuant to C.R.S. 37-60-122.2. The Colorado Wildlife Commission approved the Wildlife Mitigation Plan and the Colorado Water Conservation Board adopted it. A Memorandum of Agreement between the SDS Participants and the Colorado Department of Natural Resources, on behalf of the Colorado Division of Wildlife was executed May 18, 2010.	No
p. 17, Bullet 2	Promptly revegetate all disturbed areas with native species that provide species diversity and food and cover for large game and wildlife habitat.	This commitment is being incorporated into the revegetation contract documents for each of the work packages, as applicable.	No
p. 17, Bullet 3	Conduct clearance surveys in suitable habitat for state-listed species following standard protocols, as available, prior to construction (e.g., CDOW undated).	The SDS Participants are completing pre-construction wildlife and vegetation surveys as part of the final design for each of the work packages. The results of these surveys are being incorporated into the construction contract documents as necessary.	No

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Reporting Requirements		CY2013 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
p. 17, Bullet 4	Conduct raptor nest surveys prior to construction and impose seasonal restrictions to surface activity within recommended buffers (generally 1/4 to 1/2 mile) around active raptor nest sites and heron rookeries during construction.	Pre-construction raptor nest and heron rookery surveys are being completed for each of the work packages. The results of these surveys are being incorporated into the construction contract documents as necessary.	No
p. 17, Bullet 5	Consult with CDOW and U.S. Fish and Wildlife Services' Migratory Permit Bird Office to develop mitigation for unavoidable loss of raptor nests. Options may include constructing artificial nests in suitable habitat or enhancing prey habitat.	The following protocol identified in the Fish and Wildlife Plan will be used during construction of SDS: If a nest is detected during the pre-construction raptor nest survey, Colorado Springs Utilities will coordinate with Colorado Division of Wildlife and USFWS to develop mitigation for unavoidable raptor nest loss. A nest has been identified in one of the pipeline alignments and CDOW was consulted as a lead agency. A raptor nest mitigation plan was submitted and approved and Colorado Springs Utilities mitigated the nest. A nest was installed at Clear Spring Ranch.	No
p. 17, Bullet 6	Develop construction schedules to avoid impacts to nesting migratory birds. If construction is scheduled to occur during the nesting season (April 1 through August 31) in areas where migratory birds may nest, a qualified biologist will conduct a nesting bird survey prior to the commencement of construction activities to determine the presence of migratory birds and their nests. If an active nest is detected, a buffer zone between the nest and the limit of construction will be flagged and avoided during the nesting season, or construction will be scheduled outside of the nesting season.	The following protocol will be used during construction of SDS: If an active nest is detected during the pre-construction raptor nest survey, Colorado Springs Utilities will coordinate with Colorado Division of Wildlife and the construction contractor to ensure a buffer zone between the nest and the limit of construction is identified and the area avoided during the nesting season, or construction will be scheduled outside of the nesting season.	No
p. 18, Bullet 7	Conduct pre-construction surveys for swift fox den sites within appropriate habitat along the pipeline corridor and proposed reservoir sites. Avoid surface disturbance within 1/4 mile of active den sites while young are den-dependent (March 15 -June 15).	Pre-construction wildlife and vegetation surveys are being completed as part of the final design for each of the work packages. The results of these surveys are being incorporated into the construction contract documents as necessary.	No
p. 18, Bullet 8	Restrict pesticides for rodent control within swift fox overall range.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 18, Bullet 9	Mitigate impacts to state-listed amphibian species by avoiding, minimizing, and mitigating wetland effects as described above.	The 404 Individual Permit, the 404 Compensatory Wetland Mitigation Plan and the Fish and Wildlife Mitigation Plan will be followed.	No
p. 18, Bullet 10	Impose seasonal restrictions on construction to avoid sensitive large game winter habitat (from first large snowfall to summer green-up).	Pre-construction wildlife and vegetation surveys are being completed as part of the final design for each of the work packages. The results of these surveys are being incorporated into the construction contract documents as necessary.	No
p. 18, Bullet 11	Install wildlife crossovers (trench plugs) during pipeline construction with ramps on each side at a maximum of 1/4 mile intervals and at well-defined game trails.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No

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Reporting Requirements		CY2013 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
p. 18, Bullet 12	Create additional nesting habitat or nest boxes in nearby trees for the Lewis' woodpecker when nest trees are destroyed.	Pre-construction wildlife and vegetation surveys are being completed as part of the final design for each of the work packages. No Lewis' woodpecker nests have been identified to date.	No
p. 18, ¶1	By replacing vegetation including structural diversity, the long-term effects on wildlife will be reduced by allowing wildlife to return to disturbed areas. Pre-construction surveys will identify wildlife use at the time of construction and allow for planning for avoidance and minimization. Imposing seasonal and/or daily restrictions on construction will enable wildlife to use important habitat, especially during breeding and other critical periods. Wildlife crossovers installed within the pipeline trench will facilitate wildlife passage and provide escape routes for wildlife trapped within the trench, thereby reducing mortality.	As described in the previous twelve responses, numerous measures are being implemented to minimize potential impacts to wildlife. These measures have been incorporated in the construction contract documents. Measures have been implemented and some measures, such as ramps in the trenches have been placed at shorter intervals than required.	No
<b>Participants' Commitments: Recreation</b>			
p. 18, Bullet 1	During short-term construction activities that require trail closures of developed recreational trails, designate a safe and reasonable detour around the project site. Post signs directing trail users.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 18, Bullet 2	Work with the local municipality to establish alternate trails with consistent width, surfacing, and signage.	Colorado Springs Utilities is coordinating with affected local municipalities as needed to identify temporary alternate trails to be used or constructed during construction.	No
p. 18, Bullet 3	Within developed parks with temporary effects, commit to full reclamation of the impact area by replacing turf, irrigation systems, and other facilities that could be affected. Provide follow-up monitoring and maintenance for 1 year to ensure that reclamation efforts are successful.	There were no temporary effects to developed parks as a result of SDS construction this year. This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 18, Bullet 4	In developed park areas with permanent, above ground SDS Project facilities, reconfigure park facilities that will be directly affected and visually screen SDS Project facilities from other park uses with vegetation, berming or attractive fencing.	Construction has begun on the Juniper Pump Station. Colorado State Parks was a reviewing agency on the design. Fencing has been erected to screen construction operations.	No
p. 18, Bullet 5	Seek opportunities to enhance angling, boating, or other recreation opportunities at Lake Henry, Lake Meredith, and Holbrook Reservoir so that they are less vulnerable to water level fluctuations. Work with the CDOW to identify priority projects and include them in a proposed wildlife mitigation plan to the Colorado Wildlife Commission pursuant to C.R.S. 37-60-122.2 as above.	A Memorandum of Agreement between the SDS Participants and the Colorado Department of Natural Resources, on behalf of the Colorado Division of Wildlife, which adopted the Fish and Wildlife Mitigation Plan, was executed May 18, 2010.	No
p. 19, ¶1	The proposed mitigation measures will reduce the impact of project facility construction on trail users. They will also reduce the short- and long-term impacts of project facilities on park infrastructure, vegetation, aesthetics, and recreation experiences. Collaboration with the CDOW to enhance fishing and boating opportunities may result in such improvements to recreation at Lake Henry, Lake Meredith, and Holbrook Reservoir.	As described in the previous five responses, numerous measures are being implemented to minimize potential impacts to recreation opportunities. For this item and the previous five, no concerns have been identified to date.	No

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Reporting Requirements		CY2013 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
<b>Participants' Commitments: Socioeconomics and Land Use</b>			
p. 19, Bullet 1	Acquire properties and easements through voluntary, willing participant agreements to the maximum extent practicable.	Colorado Springs is coordinating with individual landowners to acquire properties and easements through voluntary negotiations to the maximum extent practicable.	No
p. 19, Bullet 2	Develop a construction management plan to outline best management practices to minimize impacts to surrounding properties and submit plan to Reclamation for approval prior to construction.	A Socioeconomic Construction Management Plan has been completed and was submitted to the Bureau of Reclamation on March 15, 2011. The Bureau of Reclamation approved this plan on April 26, 2011.	No
p. 19, ¶1	Adverse short-term effects on landowners with parcels that will contain SDS features will be offset through mutually agreed upon compensation. The land use mitigation measures will minimize disturbances to properties near the project during construction or minimize land use changes and conflicts.	A Socioeconomic Construction Management Plan has been completed and was submitted to the Bureau of Reclamation on March 15, 2011. The Bureau of Reclamation approved this plan on April 26, 2011. The plan provided for appropriate compensation and mitigation.	No
<b>Participants' Commitments: Cultural Resources</b>			
p. 19, Bullet 1	Comply with the requirements of the Programmatic Agreement between Reclamation, the ACHP, Colorado Springs, and the Colorado SHPO (Appendix I of the FEIS).	The requirements of the Programmatic Agreement are referenced or included in the construction contract documents for each work package.	No
p. 19, ¶1	Development of the project alternatives will result in impacts to non-renewable historic properties. As a result, it will be necessary to implement a mitigation plan in an effort to resolve any adverse effects. Mitigation may be accomplished through avoidance, implementation of protective measures, or data recovery. If avoidance and preservation are not possible, a data recovery plan may be used to collect and analyze significant information, thus preserving that information. Data collection as a mitigation measure should only be implemented when other means to protect or preserve historic properties have been exhausted or are not feasible. Within the data recovery plan, specific research problems concerning scientific, humanistic, and cultural concerns will be developed. Research also will focus on problems in prehistoric and historic archaeological methods and theory. Ultimately, the data collected likely will provide information regarding the cultures that have occupied the area in the past.	Colorado Springs Utilities prepared a Treatment Plan which addresses how mitigation will be determined for each eligible or potentially eligible cultural resource site. The Treatment Plan was executed in June 2011.	No
<b>Participants' Commitments: Indian Trust Assets</b>			
p. 19, ¶1	Continue consultation with Native American Tribes in accordance with the Programmatic Agreement. Under the Agreement, Reclamation and the SDS Participants will coordinate with the tribes to identify and mitigate impacts to any traditional cultural properties or resources.	The requirements of the Programmatic Agreement are referenced or included in the construction contract documents for each work package.	No
<b>Participants' Commitments: Noise and Vibration</b>			
p. 19, Bullet 1	Construction equipment used by contractors shall function as designed and shall conform to applicable noise emission standards.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 19, Bullet 2	Generally adhere to project work hour restrictions (7 a.m. to 7 p.m.) within 500 feet of residences, hospitals, schools, churches, and libraries. Work hours may need to be extended from time to time in order to expeditiously restore traffic flow or public access.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No

**ATTACHMENT 1**

## Annual Implementation Progress Matrix

Reporting Requirements		CY2013 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
p. 20, Bullet 3	Restrict access to construction areas so that the public could not be in close proximity to loud equipment or blasting.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 4	House project operating equipment (e.g. pump stations) in structures designed to minimize radiated noise outside the structure, and will meet local noise ordinance requirements.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, ¶1	By following existing standards, restricting work hours and access to construction areas, and insulating new noise within structures, noise effects will be minimized by maintaining acceptable noise levels and limiting the number of people exposed to increased noise levels.	As described in the previous four responses, these commitments are being incorporated into the construction contract documents to minimize potential construction and operation impacts due to noise and vibration. SDS inspectors regularly visit all active sites.	No
<b>Participants' Commitments: Visual Resources</b>			
p. 20, Bullet 1	Vegetate earthen dam faces with native herbaceous plants to match the adjacent undisturbed prairie plant communities.	This requirement is not applicable yet as the design of the Upper Williams Creek and Williams Creek Reservoirs did not begin during this reporting period.	No
p. 20, Bullet 2	Revegetate and/or landscape with plants, all disturbances associated with the construction of all facilities.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 3	Restore as many existing grades as practicable following pipeline excavations.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 4	Enclose pump stations and well equipment in structures matching the architectural characteristics of the surrounding structures.	Colorado Springs Utilities has coordinated with the Bureau of Reclamation and Pueblo County representatives regarding the proposed architecture for the Juniper Pump Station located at Pueblo Reservoir. On September 20, 2012 and November 1, 2012, Colorado Springs Utilities met with representatives of Pueblo County, Colorado State Parks and the Bureau of Reclamation to present the final architectural and landscape plans for the Juniper Pump Station. On November 8, 2012, Colorado Springs Utilities met with Pueblo County to present the final architectural design of the Juniper Pump Station. On November 13, 2012 the Pueblo County Board of County Commissioners(BOCC) passed and adopted Pueblo County Resolution No. 12-270 appointing Pueblo County's Director of Planning and Development, Joan Armstrong, to be Pueblo County's representative to participate in the final selection of the architecture and landscaping for the Juniper Pump Station along with representatives of Colorado State Parks and the Bureau of Reclamation. The resolution also approved the final stage of the design consisting principally of the exterior treatments and architecture of the proposed pump station, including the colors and building materials to be used, and the landscaping immediately around the proposed structure.	No



**ATTACHMENT 1**

## Annual Implementation Progress Matrix

Reporting Requirements		CY2013 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
p. 20, Bullet 5	Construct powerlines with non-specular (not shiny) wire, non-reflective and opaque insulators, and light-colored, non-reflective finished poles.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 6	Reclaim construction access roads and staging areas by restoring existing grade and revegetating the area of disturbance.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 7	Apply water with standard construction practices to control airborne fugitive dust within construction areas.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 8	Install baffles on construction lighting fixtures to direct light onto the construction activity only in locations where safety is a concern, scenic quality will be affected, or near occupied homes and businesses.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, ¶1	Restoring existing grades, revegetating disturbed areas, using architectural styles consistent with the area, and designing powerlines to have low visibility will minimize the visual contrast between the surrounding areas and will reduce the visibility of disturbance or new structures from observation points. Reducing airborne fugitive dust and construction lighting will reduce the area affected during construction.	As described in the previous eight responses, these requirements are being incorporated into the designs and construction contract documents for each work package to minimize potential impacts to visual resources. For this item and the previous eight, no concerns have been identified to date.	No
<b>Participants' Commitments: Traffic</b>			
p. 20, Bullet 1	Use trenchless construction to the extent practicable when construction features cross railroad lines, state highways, county roadways in densely populated areas, and major city roadways in densely populated areas.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 2	Prepare traffic control plans for approval by state and local traffic authorities and followed by contractors during construction.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 3	Construct traffic signage, signals, acceleration, and deceleration lanes as directed by state and local traffic authorities for access to reservoir sites, treatment plants, and pump stations.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 4	Construct improvements to existing access roads or construction of temporary alternate access roads to reservoir sites, treatment plants, and pump stations as directed by state and local traffic officials.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 5	Modify or reconstruct bridges when the load limits are not adequate for construction of the SDS Project and other access routes are not reasonable.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, ¶1	When implemented, these recommendations will mitigate potential adverse effects on traffic by minimizing delays and promoting traffic safety.	As described in the previous five responses, these commitments are being incorporated into the construction contract documents for each work package to minimize potential construction and operations impacts to traffic flow patterns. For this item and the previous five, no concerns have been identified to date.	No
<b>Participants' Commitments: Soils</b>			
p. 21, Bullet 1	Minimize the area of disturbance to defined construction limits and limit the time bare soil is exposed.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 2	Contain soils within the construction area through temporary sediment control measures such as silt fences, sediment logs, trenches, and sediment traps.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No

**ATTACHMENT 1**

## Annual Implementation Progress Matrix

Reporting Requirements		CY2013 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
p. 21, Bullet 3	Remove woody vegetation prior to topsoil salvage and, to the extent possible, salvage topsoil within tree stump roots.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 4	Use topsoil salvage methods including windrowing topsoil at the limits of construction and pulling the soil back on slopes during reclamation.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 5	Apply topsoil, soil amendments, fertilizers, and mulches as appropriate, and seed selectively during favorable plant establishment climate conditions to match site conditions and revegetation goals.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 6	To the extent practicable, avoid irrigated lands during final design.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 7	To the extent practicable, allow continued use of lands crossed by project facilities after construction.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 8	Where the proposed pipeline crosses prime farmland soils, develop a soils handling plan that separates the top 6 inches and the soils between 6 and 36 inches for subsequent reclamation.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, ¶1	Proposed mitigation measures will reduce short-term and long-term losses of soil and soil productivity. Redistribution of topsoil to soil-deficient areas will increase soil productivity in those areas. Topsoil, soil amendments, fertilizers, and mulches will increase productivity and help establish cultivated vegetation and crops. A soils handling plan for prime farmland soils will ensure high quality topsoil is preserved and distributed properly.	As described in the previous eight responses, these commitments are being incorporated into the construction contract documents for each work package to minimize potential soil erosion and loss during construction. For this item and the previous eight, no concerns have been identified to date.	No
<b>Participants' Commitments: Air Quality</b>			
p. 21, Bullet 1	Develop and implement standard control practices, such as watering, to minimize particulate and dust emissions from construction work sites as specified in the fugitive dust control plan.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 2	Ensure construction equipment (especially diesel equipment) meets opacity standards for operating emissions.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 3	Promptly revegetate disturbed areas.	The SDS Participants are incorporating this commitment into the construction contract documents for each of the work packages, as applicable. For Pueblo County work packages, the revegetation contractor coordinates with the construction contractor to begin revegetation efforts following substantial completion of each construction project. For El Paso County Work Packages, each construction contractor has a revegetation sub-contractor performing the work. Revegetation efforts have begun or been completed on the PDC1A, S1, S2, S3, S4A West, S4A East, S4B/N1A, N1B, N1C, N2A, FW1A, and FW1B work packages.	No
p. 21, ¶1	The proposed mitigation measures will reduce both short-term and long-term effects on air quality by following standards on construction equipment and minimizing fugitive dust.	As described in the previous three responses, these commitments are being incorporated into the construction contract documents for each work package to minimize potential air quality impacts during construction. For this item and the previous three, no concerns have been identified to date.	No

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## Annual Implementation Progress Matrix

Reporting Requirements		CY2013 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
<b>Participants' Commitments: Hazardous Materials</b>			
p. 22, Bullet 1	Remove solid waste and properly dispose of at a permitted solid waste disposal facility prior to construction of project facilities at the site.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable. Contractors are meeting all solid waste and disposal requirements.	No
p. 22, Bullet 2	Inspect the ground surface beneath the solid waste for evidence of hazardous material or petroleum product spills such as soil staining and unusual odors or colors.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 22, Bullet 3	If evidence of a spill or spills is noted, delineate the extent of the spill by laboratory analysis and excavate any contaminated soils and properly dispose of at a permitted waste disposal facility.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 22, Bullet 4	If soil and/or ground water contamination is encountered during construction of project facilities, implement mitigation procedures to minimize the risk to construction workers and to the future operation of the project.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 22, ¶1	The proposed mitigation measures will identify areas of potential contamination from hazardous materials and will remediate the soil and ground water if any contamination was identified.	As described in the previous four responses, these commitments are being incorporated into the construction contract documents for each work package to minimize potential for a hazardous materials spill. For this item and the previous four, no concerns have been identified to	No
<b>El Paso County - Location Approvals</b>			
Final Resolution, Annual Report Requirement	This approval of location shall be subject to annual reporting by the applicant on January 31 annually and review by Development Services Department to determine compliance with all applicable requirements and standards of the El Paso County regulations and the conditions and safeguards imposed upon the approval of location by the Planning Commission. Upon completion of each periodic review, the Development Services Department shall forward its report and any recommendations to the Planning Commission, Board of County Commissioners and the holder of the approval of location. The annual report shall include:	This Permit Compliance Annual Report is being prepared to demonstrate the progress successfully implementing the commitments as prescribed in the ROD and the annual reporting requirements found in the other programmatic permits and approvals including: the Pueblo County 1041 Permit, the El Paso County Approval of Locations, the CDPHE 401 Water Quality Certification and the Fountain Creek Watershed, Flood Control and Greenway District approval.	No
Annual Report Requirement, Sub-Bullet a	Evaluation of compliance with El Paso County conditions of approval	Compliance with the conditions of approval is being documented through the Site Development Plan processes for each work package. The Site Development Plan was approved for finished water pipeline segment FW1A on September 8, 2010, for the S4B/N1A pipeline on April 27, 2011, for the N1B pipeline on July 18, 2011, the Williams Creek Pump Station on July 18, 2011, the FW1B pipeline on August 17, 2011, the Bradley Pump Station Power Supply on October 11, 2012, the S4A East and West Pipeline on October 18, 2012, the N1C pipeline on February 28, 2013, the Williams Creek Pump Station Power Supply on March 1, 2013, the N2A pipeline on June 5, 2013, and the Bradley Pump Station on July 16, 2013.	No

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## Annual Implementation Progress Matrix

Reporting Requirements		CY2013 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
Annual Report Requirement, Sub-Bullet b	Integrated Adaptive Management Plan	The Integrated Adaptive Management Plan (IAMP) has been completed and was submitted to the Bureau of Reclamation on March 18, 2011. The requirements of the IAMP will be coordinated with the development of the Phase II EMS that Colorado Springs Utilities will begin developing in the next reporting period. The requirements of the IAMP are not effective until SDS is operational.	No
Annual Report Requirement, Sub-Bullet c	Dust control report	The construction contract documents require the contractor to obtain an Air Pollution Emissions Notice (APEN) through the Colorado Department of Public Health & Environment and implement dust control measures as necessary to comply with the APEN requirements. Dust is monitored during routine inspections and only exceptions are reported to the County.	No
Annual Report Requirement, Sub-Bullet d	Weed control report	Noxious weed surveys are being completed as part of the final design and Site Development Plan processes. A noxious weed management plan is being provided to El Paso County as part of the Site Development Plan. The noxious weed management plan requirements are incorporated into the construction contract documents for each of the work packages.	No
Annual Report Requirement, Sub-Bullet e	Wildlife management report (any occurrences or actions regarding compliance with State or federal requirements)	Wildlife surveys are being completed as part of the Site Development Plan process. Habitat and species have been identified and proposed mitigation measures are identified in the wildlife survey report as necessary. Required mitigation measures will be initiated prior to construction. The construction contract documents provide direction to the contractor regarding how to handle sensitive wildlife species habitat that could be encountered during construction.	No
Annual Report Requirement, Sub-Bullet f	Cultural resources report (any occurrences or actions regarding compliance with State or federal requirements)	Class III cultural resource surveys have been completed for the NEPA corridor. In addition, a process has been initiated with Reclamation and SHPO to address cultural resource impacts as a result of construction of SDS in compliance with the Programmatic Agreement. Colorado Springs Utilities prepared a Treatment Plan which addresses how mitigation will be determined for each eligible or potentially eligible cultural resource site. The Treatment Plan was executed in June 2011.	No
Annual Report Requirement, Sub-Bullet g	Groundwater and surface water monitoring report addressing water quality and quantity	A Joint Funding Agreement was executed with the U.S. Geological Survey (USGS) on the water quality monitoring program. Water quality monitoring began in January, 2011. See Attachment 3 for the water quality monitoring data.	Attachment 3 - Water Quality Monitoring Data

**ATTACHMENT 1**

## Annual Implementation Progress Matrix

Reporting Requirements		CY2013 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
Annual Report Requirement, Sub-Bullet h	Vegetation monitoring report (status of revegetation efforts)	Revegetation efforts have begun or have concluded on the S4A West, S4A East, S4B/N1A, N1B, N1C, FW1A, and FW1B Pipeline work packages. A third party contractor has conducted surveys and provides reports on the revegetation coverage and diversity.	No
Annual Report Requirement, Sub-Bullet i	Complaint log and how the issues were resolved	Colorado Springs Utilities is tracking complaints received through a complaints log which includes a description of the follow-up activities that occurred to address or resolve the complaint. See Attachment 4 for the Complaint Log.	Attachment 4 - Complaint Log
Annual Report Requirement, Sub-Bullet j	Emergency response log and how the issues were resolved	Colorado Springs Utilities is tracking emergency response actions through an emergency response log which includes a description of the actions taken to resolve the issue. See Attachment 5 for the Emergency Response Log.	Attachment 5 - Emergency Response Log
Annual Report Requirement, Sub-Bullet k	Log of when work occurred during non-typical work hours (work outside the hours of 7:00 am and 6:00 pm) and rationale by which the work was deemed necessary	The typical work hours are being incorporated into the construction contract documents for each of the work packages, as applicable. The contractor receives approval to work during non-typical work hours from the El Paso County Department of Transportation prior to the activity. Colorado Springs Utilities is tracking work which occurs during non-typical work hours through a log which includes a rationale by which the work was deemed necessary. See Attachment 6 for the Log of Work Occurring During Non-Typical Work Hours.	Attachment 6 - Log of Work Occurring During Non-Typical Work Hours

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## Annual Implementation Progress Matrix

Reporting Requirements		CY2013 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
<b>Pueblo County - 1041 permit</b>			
7. Expenditures for Wastewater System Improvements, p. 12	In order to continue its efforts to protect against future spills to Fountain Creek, to increase its opportunities for reuse, and to mitigate possible water quality impacts by the SDS Project to Fountain Creek, Colorado Springs Utilities shall commit to invest an additional \$75,000,000 in its wastewater system. Expenditures will be made as part of the wastewater collection system rehabilitation programs or wastewater reuse systems between January 1, 2009 and December 31, 2024 as required. These expenditures shall be for projects not currently required by other regulatory permits, agency enforcement or court orders, consent agreements, or governmental regulations existing as of January 30, 2009. These expenditures will include the Local Collector Evaluation and Rehabilitation Program (LCERP) for the improvement and fortification of wastewater lines which could adversely affect Fountain Creek or its tributaries. These expenditures are subject to annual appropriation by the Colorado Springs City Council. Beginning in 2010, by January 31 of each year, Colorado Springs Utilities shall provide an annual report to Pueblo County describing such expenditures for the prior year.	Colorado Springs Utilities submitted a wastewater expenditures report documenting 2009 expenditures to Pueblo County on January 29, 2010. Colorado Springs Utilities prepared a report documenting 2010 expenditures which was submitted to Pueblo County on January 31, 2011. The report for 2011 was submitted to Pueblo County on January 26, 2012. The report for 2012 was submitted to Pueblo County on January 31, 2013. The report for 2013 is being prepared and will be submitted to Pueblo County on or about January 31, 2014.	Attachment 7 - Expenditures for Wastewater System Improvements Annual Report for 2011
25. Compliance Monitoring and Reporting, p. 18	Applicant shall monitor and periodically report to Pueblo County on its compliance with this Permit. During project construction in Pueblo County, Applicant will submit a quarterly report to Pueblo County summarizing the activities during that period, forecasting activities scheduled for the upcoming period, and addressing compliance with the terms and conditions of the Permit. After commencing deliveries of water through the SDS pipeline, Applicant shall submit annual reports to Pueblo County summarizing its activities related to the SDS Project, the Permit, and addressing compliance with the terms and conditions of the Permit. Pueblo County may, at its discretion, hold public reviews of the reports and Permit compliance, including hearings in accordance with its regulations. <i>See Mitigation Appendix ENF-1.</i>	Colorado Springs Utilities has prepared and submitted a quarterly report for 4th Quarter 2012, 1st Quarter 2013, 2nd Quarter 2013, and 3rd Quarter 2013 during this reporting period. The report for 4th Quarter 2013 is being prepared and will be submitted to Pueblo County by January 31, 2014.	No

**ATTACHMENT 1**

## Annual Implementation Progress Matrix

Reporting Requirements		CY2013 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
Mitigation Appendix ENF-1, Project Detail, Item 1, p. 22 of 28	<p>1. Submit a quarterly report during project construction in Pueblo County that will provide a summary of activities related to the Conditions of the permit. The report will summarize the activities occurring in the reporting period, and a forecast of activities planned in the upcoming period. Contents of the report will include (as applicable):</p> <ul style="list-style-type: none"><li>a. Safety incident log.</li><li>b. Citizen call log.</li><li>c. Description of mitigation and restoration activities (i.e., quantity and location of repaired road surface, reseeding, etc.).</li><li>d. List of non-compliance issues by contractors (silt releases, work hour infractions, fines and penalties).</li><li>e. Sustainable construction practices employed.</li><li>f. Schedule and key milestones met and forecast.</li><li>g. Location and extent of excavations.</li><li>h. Instances of work outside normal work hours, except maintenance activities.</li><li>i. Status of site maintenance, security and access control to properties.</li><li>j. Location and extent of dewatering activities.</li><li>k. Status of other required permits, including compliance with the programmatic agreement to protect cultural resources.</li><li>l. Dust monitoring summary.</li><li>m. Status of drainage and erosion control measures.</li><li>n. Status of plant and wildlife protection requirements.</li><li>o. Status of measures to protect surface and groundwater flows.</li><li>p. Status of livestock protection measures.</li><li>q. Status of Clear Spring Ranch project.</li><li>r. Status of pump station architectural review.</li><li>s. Status of land acquisition.</li><li>t. Status of compliance with requirements concerning Pueblo County Roads.</li><li>u. Status of dredging at the levees on Fountain Creek in Pueblo.</li><li>v. Status of reclamation and bonding for disturbed areas.</li><li>w. Status of the written MOU for construction and use of the North River Outlet Works.</li><li>x. Acceptance of the design of structures at Lake Pueblo Dam by the BOR.</li><li>y. Status of conservation strategies, local reuse, stormwater management, drainage regulations and enforcement.</li><li>z. Status of stormwater and wastewater system improvements per permit commitments.</li><li>aa. Status of NEPA, ROD, contract negotiations with BOR and notice of NEPA-required mitigation and any project changes resulting from contract negotiations.</li><li>bb. Status of payments in lieu of property taxes.</li></ul>	Colorado Springs Utilities has prepared and submitted a quarterly report for 4th Quarter 2012, 1st Quarter 2013, 2nd Quarter 2013, and 3rd Quarter 2013 during this reporting period. The report for 4th Quarter 2013 is being prepared and will be submitted to Pueblo County by January 31, 2014. Copies of the quarterly reports are being provided to the BOR.	No

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## Annual Implementation Progress Matrix

Reporting Requirements		CY2013 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
Mitigation Appendix ENF-1, Project Detail, Item 2, p. 23 of 28	<p>2. Submit an annual report to Pueblo County that will provide a summary of activities related to the SDS Project and the Conditions of the Permit. These reports will be due annually on or before January 31, beginning the year following commencement of water deliveries through the SDS pipeline. The reports shall include a signed certification of compliance with the Permit. Contents of the report will include, but will not be necessarily limited to:</p> <ul style="list-style-type: none"> <li>a. Summary of storage, diversion, delivery of water in Pueblo County.</li> <li>b. Summary of Participants' return flows to Fountain Creek including storage and releases of such return flows (maximum daily flows, average annual and monthly flows and amounts).</li> <li>c. Summaries of exchanges by Participants between Pueblo Reservoir and the Fountain Creek confluence (monthly and annual rates of flow and quantities).</li> <li>d. Use of any new water rights to be delivered or stored through SDS (amount, time, source).</li> <li>e. Water quality monitoring.</li> <li>f. Geomorphology monitoring.</li> <li>g. Status of adaptive management plans on Fountain Creek.</li> <li>h. Status of payments into the Fountain Creek monetary mitigation fund.</li> <li>i. Status of expenditures for wastewater system improvements for Participants (and third party users in the Fountain Creek basin) per Permit Conditions.</li> <li>j. Reports on the operation of the Pueblo Flow Management Program and the Low Flow Program (rates, and quantities, and times of foregone exchanges, releases, and reception documentation).</li> <li>k. Status of lake level management cooperative efforts with other entities at Pueblo Reservoir.</li> <li>l. Status of conservation and local reuse.</li> <li>m. Payments to Pueblo County in lieu of property taxes.</li> <li>n. Copies of the annual reports on the SDS Project submitted to Reclamation.</li> </ul>	The annual report requirement was not applicable during this reporting period because SDS is not operational.	No
<b>CDPHE - 401 Water Quality Certification</b>			
Certification Statement, Bullet 4, p. 6	All collected raw data and annual reports developed as a requirement of other agency conditions will be submitted to the Division at the same time they are submitted to the requiring regulatory agency. Data and reports will be submitted directly to the Environmental Data Unit in an electronic data format agreed to by the Division.	The SDS Permit Compliance Annual Report for Calendar Year 2013 has been prepared to address the annual reporting requirements for all of the major programmatic permits. Colorado Springs Utilities will post this annual report to the SDS website (sdswater.org) where it can be accessed by all interested regulatory agencies or members of the public. Pertinent raw data and reports are being submitted as part of this annual report, of which CDPHE is a recipient.	No



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## Annual Implementation Progress Matrix

Reporting Requirements		CY2013 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
<b>Fountain Creek WFCGD - Resolution 2010-01</b>			
Technical Advisory Committee Condition 2, p. 3 (Also Citizen Advisory Committee Condition 2)	<p>The Integrated Adaptive Management Plan (IAMP) shall be submitted to the District for review, and periodic reports on water quality and quantity shall be provided to the District.</p> <p>The Integrated Adaptive Management Plan (IAMP) will include how mitigation will be performed in case there are problems that were not anticipated during the project. This will include means and methods to address impacts from the project and specific triggers to initiate the process. Once the IAMP is finalized there will be an opportunity for comment.</p>	<p>The IAMP has been completed and was submitted to the Bureau of Reclamation on March 18, 2011. The IAMP has been provided to the District.</p>	No

# Monthly Average Flow Data from USGS Gauge Station No. 07106500 Fountain Creek at Pueblo

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The USGS provides data based on a water year (October through September).

**ATTACHMENT 2**  
**USGS Gauge Station No: 07106500**  
FOUNTAIN CREEK AT PUEBLO, CO  
Pueblo County, Colorado  
Hydrologic Unit Code 11020003  
Latitude 38°17'16", Longitude 104°36'02" NAD27  
Drainage area 925 square miles  
Gage datum 4,705 feet above sea level NGVD29

00060, Discharge, cubic feet per second,																
YEAR	Monthly mean in cfs (Calculation Period: 2012-10-01 -> 2013-09-30)												Annual Average Flow	Long-Term Average Annual Simulated Streamflow		
	Period-of-record for statistical calculation restricted by user															
	2012			2013												
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep				
Mean of Monthly Discharge	39.9	78.1	74.5	75.8	86.4	101	59.7	66.1	26.8	42.9	354	798	150.3	253.0		

- Notes:
- 1. No incomplete data has been used for the statistical calculations shown in the table.
  - 2. Data in this table is from USGS National Water Information System: Web Interface ([waterdata.usgs.gov/nwis/monthly](http://waterdata.usgs.gov/nwis/monthly)).
  - 3. The annual average is computed from the monthly mean data published by the U.S. Geological Survey.
  - 4. The long-term average annual simulated streamflow for the preferred alternative (Alt 2) was taken from Table 33 of the FEIS.

# Water Quality Monitoring Data

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A Joint Funding Agreement was executed with the USGS to begin the water quality monitoring program in January, 2011. Data is provisional until it goes through the USGS quality assurance process. Cells shaded in blue represent data that exceeds CDPHE Reg. 32 Water Quality for Middle Arkansas River Basin segment 3, Lower Arkansas River Basin segment 1a, and Fountain Creek Basin segments 1a, 2a, 2b, and 6 standards.

Location	Date	Flow	Barometric pressure	Dissolved oxygen	pH	Specific conductance	Temperature	Turbidity	Escherichia coli	Total coliform	Ammonia	Selenium	Dissolved solids
Standards (if applicable)									126		See Note	17.4	
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20121022	62	640	12.1	8.9	630	16.6	1.4	2400	2400	0.03	17.2	417
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20121128	42	646	12.2	8.7	682	7.6	1.4	4	290	0.02	20.9	483
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20121212	37	640	11.3	8.6	700	4.9	0.7	6	690	0.04	22.8	494
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20130123	55	648	13.4	8.7	647	3.7	0.5	8	330	< 0.02	18.9	451
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20130123	54	648	13.4	8.7	647	3.7	0.5	8	330	< 0.02	18.9	451
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20130214	48	646	13.2	8.7	681	4.6	1.5	2	440	0.05	22.0	453
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20130214	48	646	13.2	8.7	681	4.6	1.5	2	440	0.05	22.0	453
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20130318	55	642	12.8	8.6	672	7.8	0.6	11	290	0.03	21.4	461
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20130318	54	642	12.8	8.6	672	7.8	0.6	11	290	0.03	21.4	461
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20130423	73	648	12.9	8.6	700	7.9	4.8	100	> 2400	< 0.02	19.7	482
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20130423	74	648	12.9	8.6	700	7.9	4.8	100	>2400	< 0.02	19.7	482
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20130513	221	648	10.8	8.5	565	11.8	2.0	7	690	0.03	9.3	362
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20130607	1980	644	10.4	8.7	507	14.0	4.1	14	340	0.04	5.6	318
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20130711	336	648	9.8	8.6	452	18.8	0.4	98	> 2400	< 0.02	4.7	285
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20130805	62	645	8.1	8.2	795	25.1	66	390	> 2400	0.08	39.1	533
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20130903	46	648	8.8	8.3	637	24.7	6.0	8	> 2400	E 0.05	18.1	453
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20131021	141	648	9.4	8.4	542	12.8	16	24	1700	0.02	9.8	356
Standards (if applicable)									126		See Note	4.6	
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20121024	5.6	605	9.1	8.3	419	9.1	3.8	190	1600	< 0.02	0.1	241
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20121127	3.4	613	11.4	8.4	493	1.9	3.7	49	820	< 0.02	0.1	284
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20121217	3.8	601	10.8	8.5	530	0.1	0.2	170	770	< 0.02	0.1	298
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20130128	4.2	599	10.5	8.4	522	2.7	8.4	49	690	< 0.02	0.2	307
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20130128	4.2	599	10.5	8.4	522	2.7	8.4	49	690	< 0.02	0.2	307
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20130226	6.2	604	11.6	8.4	629	0.0	5.2	82	410	< 0.02	0.2	366
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20130226	6.2	604	11.6	8.4	629	0.0	5.2	82	410	< 0.02	0.2	366
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20130319	4.5	611	10.4	8.4	494	5.7	0.5	11	440	< 0.02	0.2	284
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20130319	4.5	611	10.4	8.4	494	5.7	0.5	11	440	< 0.02	0.2	284
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20130416	5.1	606	10.6	8.4	475	3.7	0.3	52	520	< 0.02	0.2	281
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20130416	5.1	606	10.6	8.4	475	3.7	0.3	52	520	< 0.02	0.2	281
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20130506	5.9	614	9.9	8.4	438	10.3	0.2	110	290	< 0.02	0.2	246
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20130605	3.9	613	8.5	8.5	592	11.3	1.8	820	2400	0.03	0.2	383
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20130708	5.2	613	7.9	8.3	390	16.8	97	1400	24000	0.04	0.1	221
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20130806	9.4	612	7.7	8.1	294	16.5	160	3300	> 24000	E 0.10	0.1	167
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20130904	14.0	616	8.0	8.2	347	16.2	49	1700	5800	< 0.02	0.2	200
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20131022	25.0	614	10.9	8.1	288	6.2	45	130	520	< 0.02	0.2	158
Standards (if applicable)									126		See Note	4.6	
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20121023	39	608	8.8	8.5	654	12.0	57.0	390	9200	0.19	3.0	412
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20121127	18	617	11.2	8.6	657	4.5	2.2	180	1400	0.02	3.0	404
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20121217	23	605	10.9	8.6	684	5.3	2.4	99	690	0.18	3.8	461
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20130122	25	614	10.9	8.5	641	6.1	7.5	29	520	0.10	3.2	426
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20130122	25	614	10.9	8.5	641	6.1	7.5	29	520	0.10	3.2	426
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20130225	23	610	9	8.4	714	11.5	13	31	610	0.30	2.5	432
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20130225	23	610	9.0	8.4	714	11.5	13.0	31	610	0.30	2.5	432
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20130319	27	614	10.7	8.7	646	7.9	14	21	370	0.03	2.7	399
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20130319	27	614	10.7	8.7	646	7.9	14.0	21	370	0.03	2.7	399
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20130416	25	610	10.5	8.6	740	6.0	18	82	1000	0.02	2.8	461
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20130416	25	610	10.5	8.6	740	6.0	18.0	82	1000	0.02	2.8	461
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20130506	36	609	9.7	8.6	621	15.6	23	75	980	0.03	1.9	368
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20130605	23	617	8.4	8.3	602	13.6	43	580	> 2400	0.06	2.4	382
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20130708	18	618	7.1	8.3	540	22.7	20	1100	24000	0.05	1.7	319
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20130806	23	617	6.7	8.3	597	23.9	160	990	> 24000	0.05	1.9	373
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20130904	34	620	7.3	8.3	625	22.8	39	1500	14000	0.14	2.3	378
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20131017	46	613	9.4	8.7	600	12.5	9.3	240	2000	0.10	1.7	372

Location	Date	Flow	Barometric pressure	Dissolved oxygen	pH	Specific conductance	Temperature	Turbidity	Escherichia coli	Total coliform	Ammonia	Selenium	Dissolved solids
Standards (if applicable)									126		See Note	8	
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20121029	34	618	10.2	8.2	662	7.3	2.4	240	2400	0.51	2.4	417
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20121127	25	617	11.8	8.7	747	5.5	4.2	140	1200	0.02	3.1	493
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20121217	28	606	10.5	8.6	689	5.8	42.0	1300	>2400	0.11	3.7	455
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20130128	28	604	11.5	8.7	721	8.1	5.2	27	490	0.06	4.3	464
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20130128	28	604	11.5	8.7	721	8.1	5.2	27	490	0.06	4.3	464
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20130225	29	611	9.8	8.5	817	9.7	13	46	460	0.17	3.5	505
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20130320	25	617	11	8.4	720	3.4	5.2	81	340	0.02	3.2	453
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20130320	25	617	11.0	8.4	720	3.4	5.2	81	340	0.02	3.2	453
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20130416	34	610	10.8	8.8	751	8.8	15	82	1000	< 0.02	2.7	475
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20130416	34	610	10.8	8.8	751	8.8	15.0	82	1000	<.02	2.7	475
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20130506	41	622	9.5	8.8	669	18.2	17	38	630	0.02	2.2	387
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20130605	38	618	8.2	8.4	631	14.5	40	> 2400	1300	0.05	2.2	396
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20130708	30	617	6.4	8.3	585	26.9	62	1400	20000	0.05	1.4	345
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20130806	17	616	6.6	7.9	551	24.3	55	660	20000	0.04	1.4	340
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20130905	30	621	7.6	8.3	562	20.1	34	1900	16000	E 0.05	1.5	325
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20131023	61	618	10.2	8.2	573	6.7	15	200	E 2400	0.02	1.7	356
Standards (if applicable)									126		See Note	8	
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20121023	50	611	9.5	8.4	692	18.1	2.1	140	>2400	0.04	2.6	427
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20121127	64	619	9.4	8.2	709	13.2	4.5	140	1700	0.03	2.6	457
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20121218	48	610	9.6	8.4	740	11.9	3.5	140	2400	0.05	2.8	480
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20130122	59	617	10.0	8.2	749	11.4	1.8	210	870	0.05	4.1	501
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20130122	59	617	10	8.2	749	11.4	1.8	210	870	0.05	4.1	501
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20130219	53	615	10.6	8.1	697	11.7	2.4	100	870	0.04	2.2	441
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20130219	53	615	10.6	8.1	697	11.7	2.4	100	870	0.04	2.2	441
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20130320	90	616	10.8	8.5	728	11.7	7.3	100	770	0.02	2.9	462
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20130320	90	616	10.8	8.5	728	11.7	7.3	100	770	0.02	2.9	462
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20130422	59	614	10.0	8.4	771	15.0	4.2	41	520	0.04	2.3	475
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20130422	59	614	10	8.4	771	15.0	4.2	41	520	0.04	2.3	475
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20130510	173	622	8.8	7.9	625	12.1	85	300	6100	0.07	1.5	360
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20130606	53	620	8.5	8.3	819	19.2	4.1	440	> 2400	0.09	2.7	500
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20130709	31	622	6.9	8.0	676	23.6	60	440	14000	0.28	1.8	402
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20130807	81	620	7.2	8.0	691	20.7	58	490	14000	E 0.07	2.0	436
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20130905	71	621	7.3	8.3	665	24.0	4.8	550	8700	0.05	2.0	414
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20131023	168	620	9.2	8.2	671	13.1	16	E 870	> 2400	0.04	2.0	417
Standards (if applicable)									126		See Note	8	
FOUNTAIN CREEK AT SECURITY, CO	20121029	53	624	9.9	8.5	765	12.3	12.0	140	2400	0.42	3.1	479
FOUNTAIN CREEK AT SECURITY, CO	20121127	63	623	9.5	8.5	785	9.4	16.0	99	2400	0.77	3.2	538
FOUNTAIN CREEK AT SECURITY, CO	20121217	59	611	9.3	8.6	785	9.2	16.0	33	1700	0.62	3.3	514
FOUNTAIN CREEK AT SECURITY, CO	20130128	65	610	9.7	8.7	767	11.2	25	43	650	0.46	3.6	500
FOUNTAIN CREEK AT SECURITY, CO	20130128	65	610	9.7	8.7	767	11.2	25.0	43	650	0.46	3.6	500
FOUNTAIN CREEK AT SECURITY, CO	20130227	51	625	11.0	8.2	951	3.4	6.8	34	340	0.38	3.8	571
FOUNTAIN CREEK AT SECURITY, CO	20130227	51	625	11.0	8.2	951	3.4	6.8	34	340	0.38	3.8	571
FOUNTAIN CREEK AT SECURITY, CO	20130321	65	612	9.6	8.3	812	6.6	12	55	920	0.26	3.4	508
FOUNTAIN CREEK AT SECURITY, CO	20130321	65	612	9.6	8.3	812	6.6	12.0	55	920	0.26	3.4	508
FOUNTAIN CREEK AT SECURITY, CO	20130422	61	620	9.0	8.6	859	13.6	21	42	1300	0.24	2.9	549
FOUNTAIN CREEK AT SECURITY, CO	20130422	61	620	9.0	8.6	859	13.6	21.0	42	1300	0.24	2.9	549
FOUNTAIN CREEK AT SECURITY, CO	20130510	191	627	9.0	8.1	642	13.7	180	390	6500	0.17	2.2	371
FOUNTAIN CREEK AT SECURITY, CO	20130606	63	623	7.9	8.8	866	25.4	12	73	1600	0.40	3.1	546
FOUNTAIN CREEK AT SECURITY, CO	20130709	42	626	6.6	8.2	772	26.2	42	300	16000	0.47	2.2	492
FOUNTAIN CREEK AT SECURITY, CO	20130807	85	625	7.2	8.2	759	20.4	86	700	20000	E 0.25	2.5	481
FOUNTAIN CREEK AT SECURITY, CO	20130905	70	627	6.7	8.4	743	27.0	33	190	9800	E 0.28	2.6	415
FOUNTAIN CREEK AT SECURITY, CO	20131023	166	624	8.4	8.4	740	15.6	25	E 160	> 2400	0.23	2.6	470

Location	Date	Flow	Barometric pressure	Dissolved oxygen	pH	Specific conductance	Temperature	Turbidity	Escherichia coli	Total coliform	Ammonia	Selenium	Dissolved solids
Standards (if applicable)									126		See Note	8	
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20121023	38	622	8.0	8.4	1010	16.9	18.0	39	>2400	<.02	4.1	659
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20121128	81	631	10.7	8.4	904	6.2	16.0	60	2400	0.03	3.5	599
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20121211	73	626	11.2	8.1	928	3.4	19.0	62	1300	0.06	3.9	628
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20130124	83	628	10.7	8.2	909	2.6	34	81	1300	0.07	4.0	602
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20130124	83	628	10.7	8.2	909	2.6	34.0	81	1300	0.07	4	602
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20130220	81	618	10.4	8.3	926	5.4	15	13	370	0.05	3.9	600
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20130220	81	618	10.4	8.3	926	5.4	15.0	13	370	0.05	3.9	600
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20130320	95	626	9.5	8.3	961	10.7	23	11	410	0.03	4.3	636
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20130320	92	626	9.5	8.3	958	10.7	23.0	11	410	0.03	4.3	636
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20130422	36	626	9.1	8.3	1050	14.6	9.3	5	370	0.02	3.4	665
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20130422	36	626	9.1	8.3	1050	14.6	9.3	5	370	0.02	3.4	665
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20130515	62	625	6.5	8.1	955	23.5	39	E 50	> 2400	0.04	3.6	612
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20130605	60	631	7.7	8.3	1010	15.8	35	120	2000	0.03	3.5	649
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20130708	43	629	5.5	8.1	802	29.7	140	1000	24000	0.05	2.2	481
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20130807	83	631	6.8	8.2	971	20.7	62	320	16000	0.05	2.6	630
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20130911	119	632	7.3	7.9	841	20.1	190	7700	24000	E 0.05	3.2	536
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20131021	140	629	8.4	8.3	852	15.1	32	210	> 2400	0.02	3.2	551
Standards (if applicable)									126		See Note	8	
FOUNTAIN CREEK NEAR PINON, CO	20121030	64	639	10.0	8.3	1020	5.6	130.0	26	460	<.02	3.7	686
FOUNTAIN CREEK NEAR PINON, CO	20121119	69	639	9.3	8.4	1040	11.3	62.0	38	2400	0.08	4.2	690
FOUNTAIN CREEK NEAR PINON, CO	20121218	80	618	11.1	8.4	1020	6.3	64.0	33	1400	0.05	4.0	683
FOUNTAIN CREEK NEAR PINON, CO	20130124	81	635	10.6	8.4	1020	6.6	77	15	690	0.03	5.4	674
FOUNTAIN CREEK NEAR PINON, CO	20130124	81	635	10.6	8.4	1020	6.6	77.0	15	690	0.03	5.4	674
FOUNTAIN CREEK NEAR PINON, CO	20130227	72	639	10	8.3	1070	8.5	65	3	520	0.03	4.6	694
FOUNTAIN CREEK NEAR PINON, CO	20130227	72	639	10.0	8.3	1070	8.5	65.0	3	520	0.03	4.6	694
FOUNTAIN CREEK NEAR PINON, CO	20130321	75	625	10.5	8.4	1010	9.2	71	14	480	< 0.02	4.2	665
FOUNTAIN CREEK NEAR PINON, CO	20130321	75	625	10.5	8.4	1010	9.2	71.0	14	480	<.02	4.2	665
FOUNTAIN CREEK NEAR PINON, CO	20130424	63	639	9.4	8.2	1120	12.4	130	E 170	E 2000	0.03	4.4	731
FOUNTAIN CREEK NEAR PINON, CO	20130424	63	639	9.4	8.2	1120	12.4	130.0	E170	E2000	0.03	4.4	731
FOUNTAIN CREEK NEAR PINON, CO	20130515	50	634	6.8	8.3	1110	24.2	70	E 44	> 2400	0.03	4.6	728
FOUNTAIN CREEK NEAR PINON, CO	20130610	17	635	6.8	8.3	1180	25.8	19	84	610	0.03	4.4	773
FOUNTAIN CREEK NEAR PINON, CO	20130715	470	641	6.5	7.9	502	21.3	1130	20000	> 240000	E 0.21	1.8	295
FOUNTAIN CREEK NEAR PINON, CO	20130808	216	638	7	8.1	982	21.2	600	1700	> 24000	E 0.04	2.9	650
FOUNTAIN CREEK NEAR PINON, CO	20130911	62	640	7.1	8.3	1070	22.6	110	330	20000	< 0.02	3.2	730
FOUNTAIN CREEK NEAR PINON, CO	20131024	E 135	642	9.3	8.2	985	11.0	55	39	2000	< 0.02	2.9	642
Standards (if applicable)									126		See Note	28.1	
FOUNTAIN CREEK AT PUEBLO, CO.	20121025	40	646	9.9	8.4	1410	7.2	35.0	460	2400	<.02	17.5	.
FOUNTAIN CREEK AT PUEBLO, CO.	20121119	77	646	9.1	8.5	1230	12.0	48.0	17	1100	<.02	11.7	858
FOUNTAIN CREEK AT PUEBLO, CO.	20121211	87	641	10.6	8.4	1160	2.9	140.0	45	1700	0.04	10	811
FOUNTAIN CREEK AT PUEBLO, CO.	20130123	73	646	11.9	8.2	1070	0.0	54	18	290	0.05	11.3	841
FOUNTAIN CREEK AT PUEBLO, CO.	20130123	73	646	11.9	8.2	1070	0.0	54.0	18	290	0.05	11.3	841
FOUNTAIN CREEK AT PUEBLO, CO.	20130213	94	640	9.8	8.5	1220	8.5	73	4	260	< 0.02	10.0	798
FOUNTAIN CREEK AT PUEBLO, CO.	20130213	94	640	9.8	8.5	1220	8.5	73.0	4	260	<.02	10	798
FOUNTAIN CREEK AT PUEBLO, CO.	20130321	100	632	9.6	8.6	1160	12.9	72	6	250	< 0.02	10.0	780
FOUNTAIN CREEK AT PUEBLO, CO.	20130321	100	632	9.6	8.6	1160	12.9	72.0	6	250	<.02	10	780
FOUNTAIN CREEK AT PUEBLO, CO.	20130416	56	638	9.1	8.6	1280	13.7	19	4	110	< 0.02	13.1	899
FOUNTAIN CREEK AT PUEBLO, CO.	20130416	56	638	9.1	8.6	1280	13.7	19.0	4	110	<.02	13.1	899
FOUNTAIN CREEK AT PUEBLO, CO.	20130509	69	646	9.1	8.3	1240	11.6	990	3700	10000	0.08	14.5	844
FOUNTAIN CREEK AT PUEBLO, CO.	20130606	32	643	7.0	8.6	1370	26.8	97	490	2400	0.05	13.6	912
FOUNTAIN CREEK AT PUEBLO, CO.	20130711	10	643	6.8	8.4	2050	32.6	18	27	> 2400	< 0.02	50.6	1600
FOUNTAIN CREEK AT PUEBLO, CO.	20130805	330	644	6.9	8.1	1080	23.4	300	1100	> 24000	E 0.04	9.0	726
FOUNTAIN CREEK AT PUEBLO, CO.	20130903	119	644	6.5	8.2	1130	28.1	170	1100	> 24000	E 0.02	6.8	753
FOUNTAIN CREEK AT PUEBLO, CO.	20131021	160	646	9.5	8.4	1110	14.3	100	46	> 2400	< 0.02	6.5	750

Location	Date	Flow	Barometric pressure	Dissolved oxygen	pH	Specific conductance	Temperature	Turbidity	Escherichia coli	Total coliform	Ammonia	Selenium	Dissolved solids
Standards (if applicable)									126		See Note	14.1	
ARKANSAS RIVER NEAR AVONDALE, CO.	20121022	191	643	12.7	8.8	933	15.3	19.0	41	2000	<.02	13.7	668
ARKANSAS RIVER NEAR AVONDALE, CO.	20121128	230	648	12.1	8.6	975	6.8	15.0	23	820	0.09	14.1	701
ARKANSAS RIVER NEAR AVONDALE, CO.	20121212	233	643	11.8	8.7	978	5.0	27.0	14	730	0.02	14.5	724
ARKANSAS RIVER NEAR AVONDALE, CO.	20130123	251	651	12.1	8.3	975	1.8	40	34	340	< 0.02	13.5	669
ARKANSAS RIVER NEAR AVONDALE, CO.	20130123	251	651	12.1	8.3	975	1.8	40.0	34	340	<.02	13.5	669
ARKANSAS RIVER NEAR AVONDALE, CO.	20130212	244	646	13.0	8.7	962	6.8	29	8	150	< 0.02	14.5	657
ARKANSAS RIVER NEAR AVONDALE, CO.	20130212	244	646	13.0	8.8	949	6.8	29.0	8	150	<.02	14.5	657
ARKANSAS RIVER NEAR AVONDALE, CO.	20130318	244	646	10.6	8.4	971	6.1	34	14	460	0.02	14.3	667
ARKANSAS RIVER NEAR AVONDALE, CO.	20130318	244	646	10.6	8.4	971	6.1	34.0	14	460	0.02	14.3	667
ARKANSAS RIVER NEAR AVONDALE, CO.	20130423	209	651	11.4	8.5	995	8.0	16	93	310	< 0.02	14.6	709
ARKANSAS RIVER NEAR AVONDALE, CO.	20130423	209	651	11.4	8.5	995	8.0	16.0	93	310	<.02	14.6	709
ARKANSAS RIVER NEAR AVONDALE, CO.	20130513	426	650	8.0	8.3	828	19.9	78	40	1400	0.03	11.1	533
ARKANSAS RIVER NEAR AVONDALE, CO.	20130607	1890	649	8.0	8.3	578	14.0	38	46	2400	0.03	6.4	375
ARKANSAS RIVER NEAR AVONDALE, CO.	20130711	496	649	7.6	8.3	614	20.8	31	370	> 2400	< 0.02	6.3	404
ARKANSAS RIVER NEAR AVONDALE, CO.	20130805	1010	649	6.6	7.8	1100	22.2	130	2800	> 24000	E 0.16	13.3	808
ARKANSAS RIVER NEAR AVONDALE, CO.	20130903	369	649	7.5	8.2	937	26.0	150	460	24000	E 0.02	11.0	641
ARKANSAS RIVER NEAR AVONDALE, CO.	20131021	426	651	9.3	8.4	870	12.8	35	45	2400	< 0.02	10.0	588
Standards (if applicable)									126		See Note	28.1	
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20121025	38	648	10.2	8.5	1460	7.7	40.0	140	2000	<.02	18.8	1070
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20121119	66	648	10.0	8.4	1280	5.6	47.0	36	1700	<.02	12.7	896
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20121218	90	635	10.3	8.6	1190	6.3	72.0	20	870	<.02	10.3	819
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20130124	80	642	9.9	8.5	1190	7.3	81	24	650	0.03	10.6	820
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20130124	80	642	9.9	8.5	1190	7.3	81.0	24	650	0.03	10.6	820
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20130214	71	645	11.6	8.5	1250	2.0	61	23	610	< 0.02	11.6	840
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20130214	71	645	11.6	8.5	1250	2.0	61.3	23	610	<.02	11.6	840
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20130318	87	641	10.6	8.5	1180	11.5	87	14	650	0.03	10.7	806
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20130318	87	641	10.6	8.5	1180	11.5	87.0	14	650	0.08	10.7	806
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20130424	50	647	11.1	8.2	1320	5.1	57	E 38	E 770	< 0.02	11.7	908
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20130424	50	647	11.1	8.2	1320	5.1	57.0	E38	E770	<.02	11.7	908
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20130513	72	647	8.2	8.3	1280	17.3	62	65	2400	0.03	12.8	859
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20130607	38	645	9	8.5	1450	16.0	48	300	1600	0.03	16.3	989
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20130711	6.5	644	7.2	8.4	2090	31.6	19	64	> 2400	< 0.02	40.7	1610
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20130805	318	644	6.5	8.2	1090	26.3	320	1100	> 24000	E 0.08	8.7	733
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20130903	138	646	7.5	8.1	1120	21.2	210	1500	> 24000	< 0.02	7.5	745
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20131028	137	642	8.8	8.3	1190	13.9	69	43	2400	< 0.02	7.3	782



Location	Date	Flow	Barometric pressure	Dissolved oxygen	pH	Specific conductance	Temperature	Turbidity	Escherichia coli	Total coliform	Ammonia	Selenium	Dissolved solids
Standards (if applicable)									126		See Note	8	
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20121018	27	643	8.3	8.6	1290	15.5	10.0	64	520	E.01	7.1	931
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20121119	67	646	10.1	8.4	1170	8.4	40.0	31	920	<.02	5.5	798
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20121220	67	647	10.7	8.3	1180	0.0	82.0	23	1100	0.03	5.9	801
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20130123	83	644	11.1	8.3	1120	6.3	90	12	460	0.04	7.5	746
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20130123	83	644	11.1	8.3	1120	6.3	90.0	12	460	0.04	7.5	746
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20130227	77	645	9.8	8.4	1170	10.0	52	4	120	< 0.02	6.1	791
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20130227	77	645	9.8	8.4	1170	10.0	52.0	4	120	<.02	6.1	791
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20130321	89	631	9.9	8.5	1110	11.4	69	3	330	< 0.02	6.0	755
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20130321	89	631	9.9	8.5	1110	11.4	69.0	3	330	<.02	6.0	755
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20130424	60	646	10.3	8.3	1200	8.0	71	E 37	E 1000	< 0.02	6.4	798
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20130424	60	646	10.3	8.3	1200	8.0	71.0	E37	E1000	<.02	6.4	798
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20130516	56	640	9.8	8.2	1200	14.5	52	72	2000	0.03	6.8	797
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20130610	25	641	7.5	8.4	1310	27.6	12	51	610	0.02	7.9	891
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20130715	E 270	646	6.5	7.8	774	22.3	110	31000	> 240000	E 0.62	2.4	472
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20130808	239	.	7.0	8.2	989	22.1	720	1500	24000	E 0.03	4.1	662
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20130912	189	647	7.6	8.2	961	18.9	1030	9800	> 24000	E 0.04	4.4	631
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20131024	136	647	10	8.4	1120	13.0	82	30	2000	< 0.02	4.0	740
Standards (if applicable)									126		See Note	8	
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20121023	51	619	8.6	8.7	837	17.5	12.0	41	>2400	0.02	2.8	517
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20121128	72	630	10.9	8.4	822	4.7	11.0	57	1200	0.07	3.1	549
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20121218	68	618	11.7	8.5	854	6.0	14.0	22	650	0.12	3.3	560
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20130124	74	626	10.6	8.4	853	5.0	17	51	1300	0.15	3.6	554
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20130124	74	626	10.6	8.4	853	5.0	17.0	51	1300	0.15	3.6	554
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20130227	62	629	11.1	8.3	958	6.4	13	23	520	0.06	3.6	600
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20130227	62	629	11.1	8.3	958	6.4	13.0	23	520	0.06	3.6	600
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20130321	E 85	616	10.3	8.4	855	6.8	21	61	1300	0.03	3.2	524
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20130321	E85	616	10.3	8.4	855	6.8	21.0	61	1300	0.03	3.2	524
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20130424	72	628	9.5	8.5	1070	15.0	20	E 21	E 1400	0.02	3.1	639
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20130424	72	628	9.5	8.5	1070	15.0	20.0	E21	E1400	0.02	3.1	639
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20130515	82	624	8.0	8.3	822	18.2	51	E 140	E 2400	0.04	2.9	508
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20130610	62	626	9.0	8.4	871	19.9	4.6	65	1000	0.12	2.7	545
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20130715	E 300	631	7.0	8.0	428	19.2	600	9200	> 24000	E 0.14	1.4	253
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20130808	113	628	--	8.2	794	19.7	1130	2200	24000	E 0.08	2.2	506
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20130911	136	630	7.0	8.2	637	21.0	200	13000	> 24000	E 0.09	2.4	387
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20131024	130	631	9.5	8.2	807	8.9	30	110	2400	0.09	2.5	507

**Note on Ammonia:**

Arkansas River Standards for Ammonia include calculations to be performed monthly. These standards are not included because calculations with the small volume of data taken for SDS would yield inaccurate standards.

**Note on Salinity:**

No standards exist for Salinity along the Arkansas River.

# Complaint Log

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County	Date	Caller (Contact)	Reason	Response	Follow up	Disposition
PC	2/1/2013	Melissa Matthies (Pueblo County resident)	Traffic concern in El Paso County near elementary school just north of county line.	Provided vehicle descriptions to contractor and also to El Paso County Sheriff's Office and came to believe the individuals involved were not part of SDS project.	Continue to emphasize expectations of safety and courtesy with contractor and subs.	Mrs. Matthies seemed pleased with our response.
PC	2/13/2013	Pam Williams	Utility work under way behind her house, concerned about what it is and possible impact on revegetation area.	Team researched utility work that Mrs. Williams saw. It turned out to be the Fountain Valley Authority updating cathodic protection for its pipeline. SDS team working to ensure that FVA does notification with property owner near SDS.	Following progress of FVA work and advocating for SDS property neighbors.	Mrs. Williams says she is very satisfied and appreciates team's assistance and advocacy.
PC	4/29/2013	Herb Walsh	Resident called for an update on his request for further leveling of his property prior to watering commencing.	SDS reiterated to him that pending the weather, the following week the work should be completed. SDS indicated that we will give him at least a 48 hour notice prior to any work.	SDS followed up with Mr. Walsh that the work would be performed Friday, May 3.	Mr. Walsh seemed satisfied with the outcome.
PC	5/2/2013	Paul Langlois	Resident called to inquire about removing some weeds along the reveg/property line, to inquire if his temporary construction fence could now be removed, and request for his property corners within the former construction area could be marked.	SDS coordinated with the property owner to complete the requested items.		Mr. Langlois seemed satisfied with the outcome.

County	Date	Caller (Contact)	Reason	Response	Follow up	Disposition
PC	5/10/2013	Dwain Maxwell	Resident called to inquire about his irrigation schedule and if his sprinkler heads were working.	SDS visited his property to check sprinkler head coverage and make sure the system was operational.	SDS followed up that week to see if the resident had any other questions.	Mr. Maxwell seemed satisfied, and expressed interest in being kept informed about each weeks activities.
epc	5/13/2013	Joan Teagle	Concerned about a blind hill in her neighborhood and truck traffic being able to stop/slow for nearby local traffic and driveways nearby	Contacted resident engineer and project manager to report the road conditions. Contractor examined safety signs to make sure they were posted in good locations. Contractor also issued info to truck drivers to proceedd with caution through the neighborhood due to the hill and nearby driveways.	Spoke with resident and asked to explain the steps taken to enhance safety. Asked her to keep us updated.	Residents seemed satisfied.
PC	6/7/2013	Caller from Pueblo County Sheriff's Office	Deputy noticed water flowing near irrigation system at Highway 50	This was after work hours on a Friday; SDS immediately sent staff to area and turned off system; repairs were made to system.	Continue monitoring and thanks to Sheriff's Office	None requested
PC	6/7/2013	Dwain Maxwell	Resident called to inquire about his watering schedule, his missing that day's watering, and express his concern that the area needs more water.	SDS called Mr. Maxwell and discussed the watering schedule and that sometimes it does vary. SDS indicated they would see if a representative was able to manually start his zone for some auxiliary watering.	No representatives were available to stop by the property. Reveg team indicated enough water had been applied to last through weekend.	Mr. Maxwell was very concerned and expressed his displeasure that watering needs to be followed through on more consistently.

County	Date	Caller (Contact)	Reason	Response	Follow up	Disposition
PC	6/10/2013	Dwain Maxwell	Resident called to inquire about his watering schedule, his missing that morning's watering, and express his concern that the area needs more water.	SDS called him back and indicated the timer should have initiated his Monday watering. An irrigation specialist stopped at the property to check that the system was operational.	The system was operational, however it was found that the system had not been restarted for the week until after Mr. Maxwell's morning cycle would have initiated. SDS manually ran his sprinklers to catch up on the water cycle.	Mr. Maxwell was very concerned and expressed his displeasure that watering needs to be followed through on more consistently.
PC	6/14/2013	Dwain Maxwell	Resident called to inquire about his watering schedule, his missing that afternoon's watering, and express his concern that the area needs more water.	SDS called him back and let him know that the irrigation schedule is being reset, so his times would vary as the contractor prepares the new schedule for the following week.		Mr. Maxwell was very concerned and expressed his displeasure that watering needs to be followed through on more consistently.
EPC	6/15/2013	Keith from Wigwam	Wigwam Water noticed standing water near one of the S4AW irrigation connections to FVA and contacted us.	Wigwam Water had already turned off our valve; we dispatched contractor and permitting representative to review and document. No erosion damage noted. Connection fixed.	Thanked Keith from Wigwam and asked to keep lines of communication open.	None requested
PC	6/25/2013	Patricia Burnell	Resident called to inquire about SDS irrigation of the revegetation area and express her concerns about its continuation.	SDS shared with her the importance of restoration for the neighbors whose property had construction. SDS also discussed with her the irrigation approaches and water use.		Ms. Burnell was very concerned about any watering in the construction area since it does not benefit her and she perceived it as wasteful.

County	Date	Caller (Contact)	Reason	Response	Follow up	Disposition
epc	6/26/2013	Ted Rush	Concerned about the condition of Meridian Road due to construction hauling traffic.	Contacted resident engineer and project manager to report the road conditions. Contractor dispatched a blade to smoothen the road.	Called Mr. Rush back to let him know the action plan. Followed up after the activity to make sure it met the neighborhoods needs	Residents seemed satisfied.
PC	7/8/2013	Elovida Velasquez	Property owner is concerned about overgrowth of vegetation in the revegetation area.	SDS surveyed the site, noted conditions, and worked with the contractor to arrange for mowing of the area.	Mowing occurred at the property and adjacent parcels.	Mrs. Velasquez seemed satisfied with the follow though, but noted that she is concerned about the growth of nuisance vegetation in the former construction area.
PC	7/12/2013	Dwain Maxwell	Resident called to inquire about the watering schedule and requested specific times and days of the week for watering. He expressed concern about oversaturation of irrigation water on the property and its effect on revegetation.	SDS spoke with him to better understand his concern about oversaturation and began exploring irrigation options to address his concern. SDS requested a few days to seek a solution.	Mr. Maxwell expressed his interest in having his request addressed immediately. SDS suggested to have a representative meet with him the upcoming week to further discuss the revegetation efforts on his property. Following the call, the SDS revegetation team reviewed watering schedules.	Mr. Maxwell was very concerned and expressed his displeasure that his request could not be met immediately.

County	Date	Caller (Contact)	Reason	Response	Follow up	Disposition
PC	7/17/2013	Mr. Reese	Resident is concerned about overgrowth of vegetation in the revegetation area.	SDS surveyed the site, noted conditions, and worked with the contractor to arrange for mowing of the area.	Mowing occurred at the property and adjacent parcels.	Resident had no additional questions.
PC	7/22/2013	Bobby Luttrell	Property owner is concerned about overspraying of the irrigation system on his property and requested a sprinkler head adjustment.	SDS sent a contractor representative to the property to fine tune the sprinklers to limit overspray on the property.	Sprinkler heads were adjusted the following day by the contractor.	Resident seemed satisfied.
PC	7/31/2013	Dwain Maxwell	Resident called to let SDS know a sprinkler head was misaligned and causing an irrigation issue. Mr. Maxwell also requested an update on what day might work to meet an SDS representative to walk through his property to further discuss the revegetation and irrigation process.	SDS representative agreed to meet with Mr. Maxwell the following day to observe the sprinkler head and to further discuss the revegetation and irrigation process on his property.	On-going, SDS is working with Mr. Maxwell and the SDS revegetation team to realign the sprinkler head and check the other heads on the adjoining properties and will continue to monitor.	SDS continues to meet with Mr. Maxwell in an ongoing basis.

# Emergency Response Log

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No attachment is provided because no emergency response incidents associated with construction of SDS occurred during this reporting period.



# Log of Work Occurring During Non-Typical Work Hours

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Work Occurring During Non-Typical Work Hours

Work Package	Day	Date	Hours Worked	Reason
JPS	Saturday	10/26/2013		Maintenance/Glass Replaced/No work activity
JPS	Wednesday	12/4/2013	6:00 a.m. - 7:00 a.m.	Equipment warm up/ Safety meeting
JPS	Thursday	12/5/2013	6:00 a.m. - 7:00 a.m.	Equipment warm up/ Safety meeting
JPS	Friday	12/6/2013	6:00 a.m. - 7:00 a.m.	Equipment warm up/ Safety meeting
JPS	Monday	12/9/2013	6:00 a.m. - 7:00 a.m.	Equipment warm up/ Safety meeting
JPS	Tuesday	12/10/2013	6:00 a.m. - 7:00 a.m.	Equipment warm up/ Safety meeting
JPS	Wednesday	12/11/2013	6:00 a.m. - 7:00 a.m.	Equipment warm up/ Safety meeting
JPS	Thursday	12/12/2013	6:00 a.m. - 7:00 a.m.	Equipment warm up/ Safety meeting
JPS	Friday	12/13/2013	6:00 a.m. - 7:00 a.m.	Equipment warm up/ Safety meeting
JPS	Monday	12/16/2013	6:00 a.m. - 7:00 a.m.	Equipment warm up/ Safety meeting
JPS	Tuesday	12/17/2013	6:00 a.m. - 7:00 a.m.	Equipment warm up/ Safety meeting
JPS	Wednesday	12/18/2013	6:00 a.m. - 7:00 a.m.	Equipment warm up/ Safety meeting
JPS	Thursday	12/19/2013	6:00 a.m. - 7:00 a.m.	Equipment warm up/ Safety meeting
JPS	Friday	12/20/2013	6:00 a.m. - 7:00 a.m.	Equipment warm up/ Safety meeting
JPS	Monday	12/23/2013	6:00 a.m. - 7:00 a.m.	Equipment warm up/ Safety meeting
JPS	Thursday	12/26/2013	6:00 a.m. - 7:00 a.m.	Equipment warm up/ Safety meeting
JPS	Friday	12/27/2013	6:00 a.m. - 7:00 a.m.	Equipment warm up/ Safety meeting
JPS	Monday	12/30/2013	6:00 a.m. - 7:00 a.m.	Equipment warm up/ Safety meeting
JPS	Tuesday	12/31/2013	6:00 a.m. - 7:00 a.m.	Equipment warm up/ Safety meeting
PDC1B	Saturday	10/19/2013	7:00 a.m.- 3:30 p.m.	Trenching to keep up with schedule
PDC1B	Saturday	10/26/2013	7:00 a.m.- 3:30 p.m.	Trenching to keep up with schedule
PDC1B	Saturday	11/9/2013	7:00 a.m.- 3:30 p.m.	Trenching to keep up with schedule
PDC1B	Saturday	11/23/2013	7:00 a.m.- 3:30 p.m.	Trenching to keep up with schedule; 1/2 day for maintenance
PDC1B	Saturday	12/7/2013	7:00 a.m.- 3:30 p.m.	Trenching to keep up with schedule; 1/2 day for maintenance
PDC1B	Saturday	12/21/2013	7:00 a.m.- 3:30 p.m.	Trenching 1/2 day, digging, laying pipe, stripping forms to make up for holiday time
N1C/N2A	Monday	7/8/2013	6:00 p.m.- 8:00 p.m.	Trenchless crossing under Bradley Road
N1C/N2A	Tuesday	7/9/2013	6:00 p.m.- 8:00 p.m.	Trenchless crossing under Bradley Road
N1C/N2A	Wednesday	7/10/2013	6:00 p.m.- 8:00 p.m.	Trenchless crossing under Bradley Road
N1C/N2A	Thursday	7/11/2013	6:00 p.m.- 8:00 p.m.	Trenchless crossing under Bradley Road
N1C/N2A	Friday	7/12/2013	6:00 p.m.- 8:00 p.m.	Trenchless crossing under Bradley Road
N1C/N2A	Saturday	7/13/2013	6:00 p.m.- 8:00 p.m.	Trenchless crossing under Bradley Road
S4A West	Friday	9/27/2013	7:00 p.m. - 10:00 p.m.	S3-S4A West connection
S4A East	Wednesday	11/20/2013	7:00 p.m. - 10:00 p.m.	S4B-S4A East connection

# Expenditures for Wastewater System Improvements Annual Report for 2013

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# Pueblo County 1041 Permit

## Expenditures for Wastewater System Improvements

### Annual Progress Report

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January 16, 2014

Reporting for the period between January 1, 2013 and December 31, 2013

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## Introduction

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On March 18, 2009 the Pueblo Board of County Commissioners passed Resolution No. P&D 09-22, approving 1041 Permit No. 2008-002 with terms and conditions for construction of the Southern Delivery System water project within Pueblo County, Colorado.

1041 Permit Condition No.7 requires that Springs Utilities provide an annual report to the Pueblo County Board of Commissioners on or before January 31 of each year reporting the Wastewater System Improvement expenditures from January 1 through December 31. Condition No.7 of the permit states:

***Expenditures for Wastewater System Improvements***

*In order to continue its efforts to protect against future spills to Fountain Creek, to increase its opportunities for reuse, and to mitigate possible water quality impacts by the SDS Project to Fountain Creek, Colorado Springs Utilities shall commit to invest an additional seventy-five million dollars (\$75,000,000) in its wastewater system. Expenditures will be made as part of the wastewater collection system rehabilitation programs or wastewater reuse systems between January 1, 2010 and December 31, 2024 as required. These expenditures shall be for projects not currently required by other regulatory permits, agency enforcement or court orders, consent agreements, or governmental regulations existing as of January 30, 2010. These expenditures will include the Local Collector Evaluation and Rehabilitation Program (LCERP) for the improvement and fortification of wastewater lines which could adversely affect Fountain Creek or its tributaries. These expenditures are subject to annual appropriation by the Colorado Springs City Council. Beginning in 2010, by January 31 of each year, Colorado Springs Utilities shall provide an annual report to Pueblo County describing such expenditures for the prior year.*

The Wastewater Collection System Rehabilitation Programs are comprehensive programs that systematically inspect, evaluate, prioritize, and rehabilitate the entire Springs Utilities collection system. In 2013 the projects that met the terms of Condition No. 7 are: 1) the Local Collectors Evaluation and Rehabilitation Project (LCERP); 2), the Manhole Evaluation and Rehabilitation Project (MHERP); and 3) the Collection System Rehabilitation and Replacement Project (R&R). These projects are independent of Springs Utilities' normal operation and maintenance programs.

The Wastewater Reuse System consists of several pumping stations, storage reservoirs, holding ponds, transmission mains and a tertiary treatment facility.

## Project Descriptions

### Local Collectors Evaluation and Rehabilitation Project (LCERP)

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LCERP consists of the systematic evaluation and rehabilitation of sewer collection pipes less than 10-inch in diameter.

LCERP:

- Determines the condition of all the sanitary sewer pipe segments less than 10-inches in diameter and places them by priority on a schedule to be re-inspected, rehabilitated, repaired and/or replaced.
- Reduces the risk of Sanitary Sewer Overflows (SSO's)
- Is part of the overall long-term investments to our wastewater system through the year 2025.

LCERP repaired or rehabilitated approximately 36,700 feet of less than 10-inch sewer pipe, representing approximately 139 line segments, at a cost of \$3,889,389 in 2013.

### Manhole Evaluation and Rehabilitation Project (MHERP)

MHERP has been developed as a comprehensive program to provide the rehabilitation of sanitary sewer manholes throughout the Springs Utilities wastewater collection system

MHERP:

- Is designed to reducing the risk of spills, stoppages and SSOs
- Reduces infiltration and inflow at manholes throughout collection system.

MHERP repaired or rehabilitated 263 manholes, at a cost of \$369,336 in 2013.

### Collection System Rehabilitation and Replacement Project (R&R)

The Sanitary Sewer Evaluation and Rehabilitation Program (SSERP) was completed on December 31, 2012, meeting all the requirements of the CDPHE Compliance Order on Consent (COC). Closure of the COC was requested on January 29, 2013 and granted by CDPHE on March 8, 2013. The successor Collection System Replacement and Rehabilitation Program (R&R) contracts were also put into place in 2009 to continue the rehabilitation and replacement of the pipes identified and is described below. The total cost associated with SSERP since 2000 is approximately \$74.85million.

The R&R project rehabilitates or replaces large diameter (greater than 10-inch) sewer pipe that were installed after January 1, 1994<sup>1</sup>.

R&R:

- Is designed to facilitate operations, increase capacity, and upgrade the system
- Focuses on the reduction of sanitary sewer overflows and stoppages
- Reduces the risk of spills and protecting the public health and environment.

There were no pipes rehabilitated in 2013 that would be applicable to the terms of the 1041 Permit.

### Wastewater Reuse System

Colorado Springs maintains a tertiary treatment facility along with a non-potable distribution system.

Wastewater Reuse Systems:

- Deliver tertiary-treated wastewater to parks, cemeteries, golf courses and commercial properties for landscape irrigation
- Deliver tertiary-treated wastewater to Drake Power Plant for evaporative cooling

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<sup>1</sup> The Sanitary Sewer Evaluation and Rehabilitation Program, which includes large diameter pipe installed prior to 1994, and the Sanitary Sewer Creek Crossing Project are compliance order Wastewater Collection System Rehabilitation Programs that do not meet the terms of Condition No. 7. The forgoing compliance activities resulted in an expenditure of \$3.15M in 2013.

- Include supplies from raw surface water, groundwater, and reclaimed water.

Only normal operation and maintenance of the reuse system was conducted in 2013.

## Summary

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During the reporting period of January 1, 2013 through December 31, 2013 costs for LCERP and MHERP totaled \$4,258,725. The total Wastewater Expenditures reported since 2010 is \$30,934,478.



## **Appendix A**

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2013 LCERP Completion Table

<b>CSU Location ID</b>	<b>Work Order #</b>	<b>DIAMETER (inches)</b>	<b>LENGTH (feet)</b>	<b>Assesment Description</b>	<b>Collection Basin Name</b>	<b>Date Complete</b>
WW.195201	2559995	6	14	Replacement	UPPER SAND CREEK	01/14/13
WW.137323	2540269	8	352	Replacement	SHOOKS RUN	02/08/13
WW.132864	2559974	8	12	Replacement	UPPER SAND CREEK	02/14/13
WW.134500	2535341	8	231	CIPP	SHOOKS RUN	02/28/13
WW.159796	2535401	8	231	CIPP	SHOOKS RUN	03/01/13
WW.153585	2043172	8	267	CIPP	SHOOKS RUN	03/05/13
WW.155602	2043262	8	327	CIPP	SHOOKS RUN	03/05/13
WW.159763	2535312	8	500	CIPP	SHOOKS RUN	03/06/13
WW.141952	2140787	8	220	CIPP	SHOOKS RUN	03/07/13
WW.157704	2535528	8	397	CIPP	SHOOKS RUN	03/11/13
WW.153627	2535397	8	281	CIPP	SHOOKS RUN	03/12/13
WW.134510	2535523	8	500	CIPP	SHOOKS RUN	03/12/13
WW.137227	2043269	8	512	CIPP	SHOOKS RUN	03/13/13
WW.153578	2535405	8	490	CIPP	SHOOKS RUN	03/13/13
WW.152667	2559997	8	12	Replacement	UPPER SAND CREEK	03/13/13
WW.153582	2047950	8	71	CIPP	SHOOKS RUN	03/14/13
WW.134524	2043266	8	245	CIPP	SHOOKS RUN	03/14/13
WW.147607	2535407	8	148	CIPP	SHOOKS RUN	03/14/13
WW.149633	2535343	8	106	CIPP	PATTY JEWETT	03/16/13
WW.159823	2535538	8	119	CIPP	SHOOKS RUN	03/18/13
WW.164417	2535342	8	532	CIPP	SHOOKS RUN	03/19/13
WW.151607	1861850	8	382	CIPP	SHOOKS RUN	03/20/13
WW.159774	2139307	8	103	CIPP	SHOOKS RUN	03/22/13
WW.149619	2043954	8	341	CIPP	SHOOKS RUN	03/22/13
WW.142551	2559976	8	11	Replacement	UPPER SAND CREEK	03/22/13
WW.161806	2535530	8	392	CIPP	SHOOKS RUN	03/26/13
WW.151612	2535400	8	497	CIPP	SHOOKS RUN	03/27/13
WW.145542	2535348	8	293	CIPP	SHOOKS RUN	03/28/13
WW.156089	2535526	8	488	CIPP	SHOOKS RUN	03/29/13
WW.155605	2535529	8	501	CIPP	SHOOKS RUN	03/30/13
WW.151648	2535531	8	310	CIPP	SHOOKS RUN	04/01/13
WW.163819	2535527	8	506	CIPP	SHOOKS RUN	04/02/13
WW.134706	2535540	8	256	CIPP	SHOOKS RUN	04/02/13
WW.134670	2535539	8	401	CIPP	SHOOKS RUN	04/04/13
WW.147611	2535408	8	127	CIPP	SHOOKS RUN	04/05/13
WW.139313	2535534	8	154	CIPP	SHOOKS RUN	04/05/13
WW.145573	2140925	8	182	CIPP	SHOOKS RUN	04/05/13
WW.151652	2535536	8	106	CIPP	SHOOKS RUN	04/06/13
WW.134597	2535398	8	221	CIPP	SHOOKS RUN	04/08/13
WW.158829	2559984	8	11	Replacement	UPPER SAND CREEK	04/09/13
WW.139308	2535524	8	52	CIPP	SHOOKS RUN	04/10/13
WW.139309	2535533	8	322	CIPP	SHOOKS RUN	04/13/13
WW.157709	2043295	8	346	CIPP	SHOOKS RUN	04/15/13
WW.157783	2535541	8	396	CIPP	SHOOKS RUN	04/16/13
WW.137233	2535543	8	188	CIPP	PATTY JEWETT	04/17/13
WW.147627	2535346	8	389	CIPP	SHOOKS RUN	04/18/13
WW.151619	2535544	8	107	CIPP	PATTY JEWETT	04/18/13
WW.146073	2535545	8	422	CIPP	PATTY JEWETT	04/19/13
WW.160885	2559988	8	12	Replacement	UPPER SAND CREEK	04/19/13
WW.163885	2535546	6	121	CIPP	SHOOKS RUN	04/20/13

2013 LCERP Completion Table

CSU Location ID	Work Order #	DIAMETER (inches)	LENGTH (feet)	Assesment Description	Collection Basin Name	Date Complete
WW.159814	2140783	8	397	CIPP	SHOOKS RUN	04/21/13
WW.149634	2535344	8	390	CIPP	SHOOKS RUN	04/25/13
WW.151646	2535532	8	322	CIPP	SHOOKS RUN	04/28/13
WW.134650	2535537	8	305	CIPP	SHOOKS RUN	04/28/13
WW.139291	2139314	8	262	CIPP	SHOOKS RUN	04/29/13
WW.195192	2559994	6	16	Replacement	UPPER SAND CREEK	05/06/13
WW.146718	2559977	8	11	Replacement	UPPER SAND CREEK	05/12/13
WW.137377	1856817	8	374	Replacement	SPRING CREEK	05/28/13
WW.143363	2586478	8	139	Replacement	PATTY JEWETT	05/29/13
WW.138589	2540272	8	177	Replacement	UPPER SAND CREEK	06/14/13
WW.146906	2598191	8	397	Replacement	UPPER SAND CREEK	06/20/13
WW.161745	1851167	8	502	Replacement	PATTY JEWETT	06/22/13
WW.134802	2610483	8	366	Replacement	SPRING CREEK	06/24/13
WW.149290	2596082	6	390	Replacement	STRATTON MEADOWS	06/27/13
WW.161117	2598188	8	234	Replacement	UPPER SAND CREEK	06/27/13
WW.152701	2559979	8	15	Replacement	UPPER SAND CREEK	06/28/13
WW.163103	2101540	8	319	Replacement	SPRING CREEK	07/03/13
WW.133969	2623610	8	19	Replacement	UPPER SAND CREEK	07/06/13
WW.134051	2597891	8	100	Replacement	CARSON VALLEY	07/24/13
WW.143529	2626509	8	12	Replacement	UPPER SAND CREEK	07/26/13
WW.136947	2596084	6	299	Replacement	STRATTON MEADOWS	07/29/13
WW.146962	2606483	8	233	Replacement	SPRING CREEK	08/01/13
WW.161159	2606494	8	310	Replacement	SPRING CREEK	08/12/13
WW.195166	2559998	8	18	Replacement	UPPER SAND CREEK	08/14/13
WW.195176	2559999	8	17	Replacement	UPPER SAND CREEK	08/25/13
WW.132963	1964220	8	203	CIPP	TEMPLETON GAP	08/26/13
WW.148751	1964221	8	329	CIPP	TEMPLETON GAP	08/27/13
WW.140505	2579772	8	171	CIPP	TEMPLETON GAP	08/27/13
WW.163190	2606520	8	272	Replacement	SPRING CREEK	09/01/13
WW.161739	2540275	8	28	Replacement	PATTY JEWETT	09/08/13
WW.140943	2541279	8	335	Replacement	BOTT	09/14/13
WW.141952	2140787	8	220	Replacement	SHOOKS RUN	09/19/13
WW.133198	2597862	8	280	Replacement	UPPER SAND CREEK	09/26/13
WW.142597	1964229	8	299	CIPP	TEMPLETON GAP	09/30/13
WW.158952	1964226	8	277	CIPP	TEMPLETON GAP	09/30/13
WW.146765	2579995	8	462	CIPP	TEMPLETON GAP	10/01/13
WW.152781	1963697	8	386	CIPP	TEMPLETON GAP	10/02/13
WW.144671	1963698	8	279	CIPP	TEMPLETON GAP	10/02/13
WW.157704	2535528	8	397	Replacement	SHOOKS RUN	10/03/13
WW.152524	2582408	6	250	Replacement	MESA VALLEY	10/03/13
WW.150884	2540294	8	374	Replacement	UPPER SAND CREEK	10/22/13
WW.150523	2582406	6	261	Replacement	MESA VALLEY	10/30/13
WW.159865	2623609	8	23	Replacement	UPPER SAND CREEK	11/02/13
WW.132969	2048120	8	346	CIPP	TEMPLETON GAP	11/07/13
WW.160999	2048125	8	176	CIPP	TEMPLETON GAP	11/07/13
WW.146816	2048142	8	312	CIPP	TEMPLETON GAP	11/08/13
WW.160998	2048118	8	140	CIPP	TEMPLETON GAP	11/08/13
WW.161039	2048154	8	293	CIPP	TEMPLETON GAP	11/08/13
WW.158954	2048112	8	233	CIPP	TEMPLETON GAP	11/11/13
WW.145573	2140925	8	182	Replacement	SHOOKS RUN	11/14/13

2013 LCERP Completion Table

CSU Location ID	Work Order #	DIAMETER (inches)	LENGTH (feet)	Assesment Description	Collection Basin Name	Date Complete
WW.152902	2630098	8	234	CIPP	UPPER SAND CREEK	11/25/13
WW.144823	2630101	8	402	CIPP	UPPER SAND CREEK	11/25/13
WW.148884	2630099	8	399	CIPP	UPPER SAND CREEK	11/26/13
WW.154922	2630095	8	190	CIPP	UPPER SAND CREEK	11/27/13
WW.142718	2630181	8	444	CIPP	UPPER SAND CREEK	11/27/13
WW.156589	1858831	8	331	CIPP	PATTY JEWETT	12/02/13
WW.145441	2578652	8	279	CIPP	PATTY JEWETT	12/02/13
WW.144362	1841511	8	500	CIPP	PATTY JEWETT	12/02/13
WW.142719	2630102	8	255	CIPP	UPPER SAND CREEK	12/02/13
WW.159056	2630114	8	76	CIPP	UPPER SAND CREEK	12/02/13
WW.133198	2597862	8	280	CIPP	UPPER SAND CREEK	12/02/13
WW.138600	2630109	8	144	CIPP	UPPER SAND CREEK	12/03/13
WW.133197	2630113	8	210	CIPP	UPPER SAND CREEK	12/03/13
WW.154920	2630092	8	195	CIPP	UPPER SAND CREEK	12/04/13
WW.163061	2614015	8	348	Replacement	UPPER SAND CREEK	12/05/13
WW.157010	2630096	8	252	CIPP	UPPER SAND CREEK	12/10/13
WW.138861	1919936	8	196	CIPP	TEMPLETON GAP	12/10/13
WW.140900	1919885	8	262	CIPP	TEMPLETON GAP	12/10/13
WW.151156	1919869	8	337	CIPP	TEMPLETON GAP	12/10/13
WW.138128	2583380	8	400	CIPP	DOUGLAS CREEK	12/11/13
WW.133733	1923751	8	289	CIPP	TEMPLETON GAP	12/11/13
WW.142634	2630204	8	343	CIPP	UPPER SAND CREEK	12/11/13
WW.145116	1928132	8	392	CIPP	TEMPLETON GAP	12/11/13
WW.161041	2630223	8	230	CIPP	UPPER SAND CREEK	12/11/13
WW.163401	1923755	8	397	CIPP	TEMPLETON GAP	12/11/13
WW.135618	2048163	8	446	CIPP	TEMPLETON GAP	12/12/13
WW.133202	2630121	8	292	CIPP	UPPER SAND CREEK	12/12/13
WW.140625	2630139	8	283	CIPP	UPPER SAND CREEK	12/12/13
WW.142722	2630182	8	97	CIPP	UPPER SAND CREEK	12/12/13
WW.133210	2630185	8	266	CIPP	UPPER SAND CREEK	12/12/13
WW.142635	2630205	8	298	CIPP	UPPER SAND CREEK	12/12/13
WW.133201	2630119	8	273	CIPP	UPPER SAND CREEK	12/13/13
WW.157011	2630144	8	326	CIPP	UPPER SAND CREEK	12/13/13
WW.152906	2630147	8	165	CIPP	UPPER SAND CREEK	12/13/13
WW.140624	2630149	8	275	CIPP	UPPER SAND CREEK	12/13/13
WW.148079	2578663	8	278	CIPP	UPPER SAND CREEK	12/14/13
WW.140604	2630202	8	321	CIPP	UPPER SAND CREEK	12/14/13
WW.146825	2630210	8	283	CIPP	UPPER SAND CREEK	12/14/13
WW.146871	2630211	8	398	CIPP	UPPER SAND CREEK	12/14/13
<b>Totals</b>		<b>139</b>	<b>36,742</b>			

## **Appendix B**

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**2012 - Manhole Evaluation and Rehabilitation Project**

<b>Manhole Evaluation and Rehabilitation Project</b>				
<b>CSU Location ID #</b>	<b>Work Order #</b>	<b>Diameter (feet)</b>	<b>Depth (feet)</b>	<b>Date Complete</b>
ww.112120	2541652	4	8.8	03/01/2013
ww.127611	2541653	4	13.7	02/18/2013
ww.125614	2541654	5	12.8	03/07/2013
ww.131623	2541655	4	7.4	03/07/2013
ww.129916	2541656	4	9.2	03/11/2013
ww.111934	2541657	4	14	02/20/2013
ww.105996	2541658	4	13.9	02/19/2013
ww.126127	2541659	4	12.6	03/01/2013
ww.127276	2541660	4	9.6	02/28/2013
ww.121269	2541661	4	5.6	03/01/2013
ww.106289	2541662	4	10.1	03/04/2013
ww.128118	2541711	5	7.4	02/28/2013
ww.125973	2541712	4	14.9	02/19/2013
ww.107641	2541717	4	11.1	02/18/2013
ww.119934	2541720	4	11	02/20/2013
ww.116132	2541721	4	7.2	03/06/2013
ww.100495	2541722	4	18.8	03/06/2013
ww.118124	2600426	5	7.2	09/26/2013
ww.127207	2600427	4	4.8	09/26/2013
ww.104908	2600428	4	14.2	09/23/2013
ww.119709	2600429	4	11.4	09/26/2013
ww.129727	2600430	4	10.6	09/26/2013
ww.109769	2600431	4	6	09/24/2013
ww.103670	2600432	4	11.9	09/24/2013
ww.111728	2600433	4	9.3	09/24/2013
ww.197528	2600434	4	10.8	09/24/2013
ww.126889	2600437	4	8.1	09/25/2013
ww.125283	2600439	4	9.3	09/27/2013
ww.106595	2600441	5	9.9	09/27/2013
ww.182347	2600442	4	9.9	09/23/2013
ww.122944	2600443	5	12.2	12/27/2013
ww.122716	2605093	5		07/12/2013
ww.115338	2596646	4	7.3	06/25/2013
ww.121644	2477235	5	7.1	03/07/2013
ww.109792	2477233	4	11.3	03/07/2013
ww.127712	2477183	4	10.1	03/19/2013
ww.129751	2551786	4	8.7	04/19/2013
ww.119749	2551787	4	8	04/22/2013
ww.125762	2551789	4	7.2	03/21/2013
ww.119727	2551790	4	10.4	03/21/2013
ww.109808	2551791	4	10.8	03/20/2013
ww.121663	2551792	4	9.1	03/20/2013
ww.123679	2551793	4	8.5	03/20/2013
ww.103753	2551796	4	6.3	03/19/2013
ww.107792	2551797	4	8	03/19/2013
ww.109811	2551798	4	8.2	03/19/2013
ww.123683	2551799	4	6.9	03/19/2013
ww.123680	2551800	4	6.7	04/12/2013
ww.119729	2551801	4	7	04/12/2013
ww.105786	2551803	4	9.2	03/20/2013
ww.123686	2551804	4	8.7	03/27/2013
ww.129748	2551808	4	8.3	03/21/2013
ww.107788	2551819	4	10.3	04/22/2013
ww.115789	2551830	4	6.4	04/11/2013
ww.105784	2551844	4	8.7	04/12/2013
ww.123701	2551854	4	12.6	03/26/2013

**2012 - Manhole Evaluation and Rehabilitation Project**

<b>Manhole Evaluation and Rehabilitation Project</b>				
<b>CSU Location ID #</b>	<b>Work Order #</b>	<b>Diameter (feet)</b>	<b>Depth (feet)</b>	<b>Date Complete</b>
ww.113813	2551861	4	6.8	03/26/2013
ww.105799	2551863	4	9.2	03/26/2013
ww.111785	2551864	4	9	03/27/2013
ww.117803	2551865	4	9.8	03/22/2013
ww.103789	2551996	4	8.3	03/18/2013
ww.105785	2551997	4	8.8	04/15/2013
ww.107793	2553088	4	5	04/01/2013
ww.123685	2553089	4	7.3	04/01/2013
ww.103792	2553092	4	8.8	03/18/2013
ww.119753	2553093	4	8.7	03/27/2013
ww.117806	2553094	4	10.3	03/22/2013
ww.105802	2553095	4	9.3	03/18/2013
ww.121682	2553096	4	9.2	03/18/2013
ww.115782	2553097	4	6.6	04/11/2013
ww.123671	2553098	4	8.2	03/29/2013
ww.127729	2553099	4	9	04/15/2013
ww.119720	2553100	4	8.9	04/15/2013
ww.123670	2553101	4	11.1	04/01/2013
ww.104890	2553102	4	8.1	03/14/2013
ww.112937	2553103	4	7.5	03/14/2013
ww.115784	2552104	4	7.5	03/14/2013
ww.117805	2553108	4	8.1	03/14/2013
ww.124856	2553109	4	8.2	03/13/2013
ww.109824	2553110	4	6.7	03/13/2013
ww.118856	2553113	4	7.3	03/11/2013
ww.122774	2553130	4	8.7	03/11/2013
ww.122773	2553148	4	7.1	03/13/2013
ww.131798	2553157	4	6.8	04/08/2013
ww.105804	2553158	4	7.2	04/08/2013
ww.121685	2553159	4	9.1	04/11/2013
ww.119755	2553161	4	8.1	04/08/2013
ww.127766	2553162	4	9.6	03/29/2013
ww.123703	2553163	4	8.9	04/02/2013
ww.108918	2553164	4	7.8	04/02/2013
ww.120844	2553165	4	8.4	04/11/2013
ww.119754	2553167	4	8.4	04/02/2013
ww.119752	2553169	4	9	04/02/2013
ww.131796	2553170	4	7.4	04/08/2013
ww.127764	2553173	4	7.5	03/13/2013
ww.114946	2586270	4	5	06/11/2013
ww.118858	2586272	4	6.2	06/11/2013
ww.128854	2586268	4	7.3	06/05/2013
ww.114945	2586269	4	5.9	06/05/2013
ww.120843	2586271	4	7.4	06/11/2013
ww.125444	2523216	4	3.4	02/01/2013
ww.131452	2523278	4	2.5	02/14/2013
ww.121398	2523305	4	7.5	02/01/2013
ww.131451	2523307	4	4	02/14/2013
ww.103101	2523308	4	9.1	02/01/2013
ww.119422	2523309	4	6.5	02/14/2013
ww.105473	2523310	4	9.2	02/01/2013
ww.113516	2523312	4	9.1	02/14/2013
ww.131437	2523314	4	7.5	01/31/2013
ww.105471	2523316	4	5.4	02/07/2013

**2012 - Manhole Evaluation and Rehabilitation Project**

<b>Manhole Evaluation and Rehabilitation Project</b>				
<b>CSU Location ID #</b>	<b>Work Order #</b>	<b>Diameter (feet)</b>	<b>Depth (feet)</b>	<b>Date Complete</b>
ww.117474	2523319	5	16.3	01/28/2013
ww.109498	2523320	4	7.4	01/31/2013
ww.121382	2523321	4	8.3	01/31/2013
ww.111447	2523323	4	7.7	01/01/2013
ww.103095	2523325	4	6.4	02/07/2013
ww.111448	2523326			03/04/2013
ww.113595	2523327		6x6x9	01/09/2013
ww.111543	2523328	5	9	01/09/2013
ww.123466	2523356	5	6.6	01/09/2013
ww.131547	2523373	5	7.2	01/10/2013
ww.117554	2523392	5	7.5	01/10/2013
ww.111544	2523412		10x10x8.5	01/16/2013
ww.109588	2523438	5	13	01/11/2013
ww.121463	2523441	5	7.5	01/11/2013
ww.131548	2523442	4	15.5	01/25/2013
ww.107566	2523443	4	11.6	01/22/2013
ww.131549	2523444	5	7.5	01/22/2013
ww.103278	2523445	4	12.4	01/18/2013
ww.119510	2523447	5	10.2	01/18/2013
ww.117557	2523448	4	11.8	01/25/2013
ww.119508	2534123			02/08/2013
ww.105467	2541645	4	10	01/29/2013
ww.122771	2590256	4	8.75	06/25/2013
ww.106876	2590257	4	7.3	06/19/2013
ww.101981	2590258	4	5.5	06/19/2013
ww.122775	2590259	4	8.25	06/05/2013
ww.110906	2590260	4	6.7	06/25/2013
ww.124855	2590261	4	5.2	06/25/2013
ww.127784	2549901	4	8	05/17/2013
ww.131819	2549902	4	8.3	05/20/2013
ww.121701	2549898	4	9.2	04/22/2013
ww.113832	2549897	4	8.75	04/01/2013
ww.129779	2549899	4	7.7	04/22/2013
ww.129776	2549891	4	9.9	05/17/2013
ww.105812	2549895	4	10	03/19/2013
ww.107826	2549892	4	7.3	04/05/2013
ww.123715	2549894	4	9.7	04/01/2013
ww.119770	2549893	4	7.5	04/05/2013
ww.111800	2549889	4	5.2	03/19/2013
ww.127775	2549890	4	5.3	03/19/2013
ww.117820	2549904	4	15.5	05/15/2013
ww.127775	2549890	4	9.6	03/19/2013
ww.121700	2549896	4	5.3	03/20/2013
ww.109834	2549920	4	9	06/11/2013
ww.123706	2549919	4	11.3	05/22/2013
ww.115814	2549921	4	10.2	05/22/2013
ww.119760	2549918	4	13	05/28/2013
ww.119747	2549916	4	11	05/22/2013
ww.131803	2549917	4	11.6	05/28/2013
ww.131805	2549922	4	11.5	05/28/2013
ww.109830	2549966	4	9	05/29/2013
ww.113826	2549965	4	7.6	05/29/2013
ww.103787	2549962	4	8.2	05/29/2013
ww.107802	2549961	4	8.8	06/04/2013



**2012 - Manhole Evaluation and Rehabilitation Project**

<b>Manhole Evaluation and Rehabilitation Project</b>				
<b>CSU Location ID #</b>	<b>Work Order #</b>	<b>Diameter (feet)</b>	<b>Depth (feet)</b>	<b>Date Complete</b>
ww.119745	2549964	4	7.7	06/03/2013
ww.103786	2549963	4	8.7	06/03/2013
ww.113807	2549960	4	13.5	08/22/2013
ww.131786	2549959	4	17.3	08/22/2013
ww.107798	2549958	4	6.2	06/04/2013
ww.103765	2549957	4	6.2	06/04/2013
ww.117393	2562590	4	5.7	04/25/2013
ww.115429	2562591	4	7	04/30/2013
ww.102911	2562592	4	7.5	04/30/2013
ww.131366	2562594	4	10.1	04/25/2013
ww.115451	2562595	4	6.9	05/03/2013
ww.129404	2562596	4	8.6	04/24/2013
ww.123349	2562597	4	11	04/24/2013
ww.127417	2562598	4	9.3	05/03/2013
ww.103044	2562599	4	5.6	04/29/2013
ww.103045	2562600	4	9.3	05/03/2013
ww.127416	2562661	4	5.3	04/24/2013
ww.129403	2562662	4	6.6	04/24/2013
ww.123303	2562666	4	8.8	04/25/2013
ww.123338	2562667	4	6.2	04/26/2013
ww.129396	2562669	4	8.7	04/26/2013
ww.105438	2562676	4	7.3	04/26/2013
ww.131404	2562677	4	10.3	04/26/2013
ww.109467	2562678	4	7.2	04/30/2013
ww.131367	2562679	4	7.5	04/25/2013
ww.125399	2562680	4	7.7	04/29/2013
ww.111371	2562681	4	7.1	05/24/2013
ww.107401	2572182	4	9.1	05/24/2013
ww.117457	2596642	4	6	08/26/2013
ww.111442	2596619	4	6.4	08/29/2013
ww.123354	2596618	4	10.2	07/09/2013
ww.123345	2596615	4	9.7	07/09/2013
ww.119404	2596641	4	8.2	07/09/2013
ww.105449	2596644	4	8.7	08/14/2013
ww.129397	2596614	4	12	08/29/2013
ww.125399	2562680	4	7.5	04/29/2013
ww.127419	2596638	4	7	08/28/2013
ww.105452	2596634	4	11	08/27/2013
ww.103059	2596635	4	7.5	08/28/2013
ww.103057	2596630	4	8.3	11/07/2013
ww.119392	2596617	4	5.3	08/14/2013
ww.127410	2596616	4	8	09/09/2013
ww.111426	2596636	4	6	08/16/2013
ww.103056	2596637	4	4	07/02/2013
ww.103035	2596622	4	7.3	08/27/2013
ww.113489	2596623	4	19.3	08/27/2013
ww.103060	2596624	4	20.8	08/26/2013
ww.113490	2596625	4	17.5	08/19/2013
ww.113491	2596627	4	6.7	08/02/2013
ww.125402	2596645	4	6.7	08/29/2013
ww.111426	2596636	4	6.1	08/16/2013
ww.111427	2596626	4	4	08/26/2013
ww.121361	2610051	4	6.7	07/02/2013
ww.103061	2596628	4	4.25	08/28/2013

**2012 - Manhole Evaluation and Rehabilitation Project**

<b>Manhole Evaluation and Rehabilitation Project</b>				
<b>CSU Location ID #</b>	<b>Work Order #</b>	<b>Diameter (feet)</b>	<b>Depth (feet)</b>	<b>Date Complete</b>
ww.121298	2586297	4	6.5	06/24/2013
ww.129298	2586299	4	8.6	06/24/2013
ww.111352	2586294	4	6.7	07/02/2013
ww.109408	2586295			08/21/2013
ww.113403	2586298			08/21/2013
ww.119330	2586296			07/30/2013
WW.102864	2648577	4	13.2	10/25/2013
WW.131310	2648579	4	10.2	11/08/2013
WW.123244	2648580	4	9.1	12/11/2013
WW.102815	2648590	4	5.8	12/16/2013
WW.105313	2648591	4	9.4	12/16/2013
WW.109391	2648593	4	12.5	10/25/2013
WW.102831	2648594	4	8.6	12/10/2013
WW.105322	2648595	4	7.6	12/10/2013
WW.131312	2648596	4	6.8	12/10/2013
WW.111317	2648597	4	6.2	11/08/2013
WW.121271	2648598	4	13.7	11/08/2013
WW.115395	2648599	4	11.4	11/08/2013
WW.127336	2648601	4	7.4	10/25/2013
WW.131300	2648602	4	12	11/25/2013
WW.129308	2648604	4	4.1	11/08/2013
WW.113371	2648605	4	6.2	11/08/2013
WW.129353	2648606	5	6.6	12/11/2013
WW.113374	2648607	5	8.1	12/10/2013
WW.121305	2648608	4	9	12/16/2013
WW.115303	2626634	4	8	09/23/2013
WW.115303	2626634	4	8	09/23/2013
WW.119248	2626636	4	8	09/23/2013
WW.109431	2632181	4	10	10/10/2013
WW.115444	2632182	4	5	10/11/2013
WW.108177	2626534	4	4.9	09/17/2013
WW.124074	2626533	4	5.9	09/11/2013
WW.110161	2626532	4	7	09/11/2013
WW.122031	2626531	4	6	09/18/2013
WW.118144	2623530	4	6.7	09/18/2013
WW.116146	2626528	4	4.5	09/10/2013
WW.105249	2626529	4	10	09/17/2013
WW.111268	2636374	4	6.6	11/01/2013
WW.131257	2633675	4	7.3	11/01/2013
WW.121175	2636376	4	7	10/14/2013
WW.131259	2636371	4	7.3	10/11/2013
WW.111234	2636377	4	7.5	10/23/2013
WW.102745	2636372	4	9	11/08/2013
WW.105276	2636373	4	7	11/01/2013
ww.129394	2653380			12/12/2013
<b>Total</b>				<b>263</b>



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DEPARTMENT OF PLANNING  
AND DEVELOPMENT

229 West 12th Street, Pueblo, CO 81003-2810-719-583-6100

via E-mail January 29, 2015

1041 2008-002



January 28, 2015

Michael J. Ryan  
Regional Director  
Great Plains Regional Office  
Bureau of Reclamation  
P.O. Box 36900  
Billings, MT 59107-6900

Subject: Southern Delivery System Permit Compliance Annual Report (Calendar Year 2014)

Mr. Ryan:

Colorado Springs Utilities, the Southern Delivery System (SDS) Project Manager, hereby submits the attached Permit Compliance Annual Report for Calendar Year 2014. Submittal of this report demonstrates the SDS Project's progress in successfully implementing the commitments prescribed in the SDS ROD, Reference No.: GP-2009-01, , as well as meeting the annual reporting requirements for other programmatic permits and approvals.

Please contact me at 719-668-8037, or Mark Pifher at 719-668-8693, with any questions regarding the attached report.

Sincerely,

John A. Fredell  
Southern Delivery System Program Director

Enclosure

cc: City of Fountain, Curtis Mitchell, Director of Utilities  
Colorado Department of Public Health and Environment, Steven Gunderson, Director,  
Water Quality Control Division  
Colorado Parks and Wildlife, Dan Prenzlów, Regional Manager, Southeast Region  
Fountain Creek Watershed Flood Control and Greenway District, Larry Small, Executive  
Director  
Pueblo County Planning & Development, Joan Armstrong, Director  
Pueblo West Metropolitan District, Scott Eilert, Director of Utilities  
Security Water and Sanitation District, Roy Heald, District Manager  
U.S. Army Corps of Engineers, Antoinette Gant, Lieutenant Colonel, U.S. Army, District  
Commander

# **Southern Delivery System Permit Compliance Annual Report Calendar Year 2014**

Prepared for:

**Bureau of Reclamation**

**Colorado Department of Public Health and  
Environment**

**Colorado Division of Parks and Wildlife**

**El Paso County**

**Pueblo County**

**Fountain Creek Watershed Flood Control and  
Greenway District**

Submitted by:

**Colorado Springs Utilities, SDS Project Manager  
on behalf of the SDS Participants**

January 2015

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## Figures

- 1 Southern Delivery System Project Plan

## Attachments

- 1 Implementation Progress Matrix
- 2 Monthly Average Flow Data from USGS Gauge Station
- 3 Water Quality Monitoring Data
- 4 Complaint Log
- 5 Emergency Response Log
- 6 Log of Work Occurring During Non-Typical Work Hours
- 7 Expenditures for Wastewater System Improvements Annual Report for 2014

# Acronyms and Abbreviations

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1041 Permit	Pueblo County 1041 Permit No. 2008-002
BMPs	Best Management Practices
CPW	Colorado Parks and Wildlife
CDPHE	Colorado Department of Public Health and Environment
CWC	Colorado Wildlife Commission
CWCB	Colorado Water Conservation Board
DSD	Development Services Department
EMS	Environmental Management System
FEIS	Final Environmental Impact Statement
FWMP	Fish and Wildlife Mitigation Plan
GMP	Geomorphic Mitigation Plan
IAMP	Integrated Adaptive Management Plan
mgd	million gallons per day
MP	Monitoring Plan
NEPA	National Environmental Policy Act
PCAR	Permit Compliance Annual Report
PDC	Pueblo Dam Connection
Reclamation	Bureau of Reclamation
ROD	Record of Decision
SCMP	Socioeconomic Construction Management Plan
SDS	Southern Delivery System Project
SDS Participants	City of Colorado Springs, City of Fountain, Security Water District, and Pueblo West Metropolitan District
USACE	United States Army Corps of Engineers
USGS	United States Geological Survey
UWCR	Upper Williams Creek Reservoir
WCR	Williams Creek Reservoir
WTP	water treatment plant

# Executive Summary

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The Southern Delivery System Project (SDS) is a regional water delivery system that will serve the City of Colorado Springs (via Colorado Springs Utilities), City of Fountain, Security Water District, and Pueblo West Metropolitan District (collectively, the SDS Participants).

## Purpose

The purpose of the SDS Permit Compliance Annual Report (PCAR), submitted by Colorado Springs Utilities, the SDS Project Manager, is to demonstrate progress in successfully implementing the commitments as prescribed in the Record of Decision (ROD) to the Bureau of Reclamation (Reclamation). Colorado Springs Utilities also reviewed the other seven programmatic permits/approvals that are in place to identify the annual reporting requirements of each. The following five permits/approvals have annual reporting requirements addressed in this report:

- El Paso County Location Approvals
  - Planning Commission Resolution U-09-002, March 2, 2010, Southern Delivery System Raw Water Pipelines, Amended by Resolution U-12-001, October 18, 2012
  - Planning Commission Resolution U-09-003, March 2, 2010, Southern Delivery System Finished Water Pipelines, Amended by Resolution U-12-003, October 18, 2012
  - Planning Commission Resolution U-09-004, March 16, 2010, Southern Delivery System Bradley Pump Station
  - Planning Commission Resolution U-09-005, March 16, 2010, Southern Delivery System Upper Williams Creek Reservoir, Amended by Resolution U-12-002, October 18, 2012
  - Planning Commission Resolution U-09-007, March 16, 2010, Southern Delivery System Exchange Flow System, Amended by Resolution U-12-004, October 18, 2012
- El Paso County 1041 Permits
  - Development Services Department, File No. AASI-13-002, Southern Delivery System Finished Water Section 1C, Administratively Approved January 2, 2014
  - Development Services Department, File No. AASI-13-005, Southern Delivery System Finished Water Section 3, Administratively Approved January 29, 2014
  - Development Services Department, File No. AASI-14-001, Southern Delivery System Raw Water Pipeline Section S4AC, Administratively Approved February 18, 2014
- Pueblo County Board of County Commissioners Resolution No. P&D 09-22 approving 1041 Permit No. 2008-02, April 21, 2009

- Fountain Creek Watershed, Flood Control and Greenway District (District) Resolution 2010-01, February 26, 2010
- Colorado Department of Public Health and Environment (CDPHE) 401 Certification No. 4224, April 23, 2010, which includes the requirement to provide copies of all other annual reports

The following two programmatic permits/approvals do not specifically include annual reporting requirements.

- Memorandum of Agreement with the State of Colorado, Department of Natural Resources on behalf of the Colorado Division of Wildlife regarding the Fish and Wildlife Mitigation Plan, May 18, 2010
- United States Army Corps of Engineers (USACE) Clean Water Act Section 404 Individual Permit No. SPA-2005-00131-SCO, April 26, 2010

## Reporting Requirements

The ROD requires annual reporting to summarize the SDS's progress made in implementing the ROD commitments. Colorado Springs Utilities has elected to develop a single SDS PCAR that addresses the ROD commitments and the other annual or periodic reporting requirements included in the programmatic permits/approvals that are listed above.

## Summary of SDS Activities During this Reporting Period

The SDS has met a number of key milestones during this reporting period associated with the design, construction, and completion of various work packages. Construction on all pipeline work packages began or continued, during the reporting period, with approximately 48 miles of pipeline installed. Construction of the water treatment plant and the raw water pump stations continued during the reporting period.

Colorado Springs Utilities also continued identification of locations for wetland construction to mitigate the 12.0 acres of non-jurisdictional wetlands affected as a result of SDS and construction was completed for a portion of this area. Transition of Phase I EMS to Phase II EMS was completed, with on-going effort to track compliance with programmatic permit/approval commitments and construction permit requirements, and included permitting and compliance requirements in design drawings and specifications, as required, for those work packages still in design.

Class 3 surveys were completed at the Upper Williams Creek Reservoir site and eligible sites were treated.

## Future SDS Activities

Anticipated activities for 2015 include completion of all pipelines and facilities, initial startup and commissioning for purposes of testing, system integration, and 30% design of UWCR.



# 1.0 Introduction

---

## 1.1 Purpose

The purpose of the SDS Permit Compliance Annual Report (PCAR), submitted by Colorado Springs Utilities as SDS Project Manager, is to demonstrate the progress in successfully implementing the commitments identified in the ROD (Reclamation 2009). This PCAR has been prepared to be consistent with the ROD and other permits issued by agencies having jurisdiction over SDS, specifically the following programmatic permits/approvals:

- Bureau of Reclamation Record of Decision for the Southern Delivery System Final Environmental Impact Statement, Record of Decision Reference No. GP-2009-01, March 20, 2009
- El Paso County Location Approvals
  - Planning Commission Resolution U-09-002, March 2, 2010, Southern Delivery System Raw Water Pipelines, Amended by Resolution U-12-001, October 18, 2012
  - Planning Commission Resolution U-09-003, March 2, 2010, Southern Delivery System Finished Water Pipelines, Amended by Resolution U-12-003, October 18, 2012
  - Planning Commission Resolution U-09-004, March 16, 2010, Southern Delivery System Bradley Pump Station
  - Planning Commission Resolution U-09-005, March 16, 2010, Southern Delivery System Upper Williams Creek Reservoir, Amended by Resolution U-12-002, October 18, 2012
  - Planning Commission Resolution U-09-007, March 16, 2010, Southern Delivery System Exchange Flow System, Amended by Resolution U-12-004, October 18, 2012
- El Paso County 1041 Permits
  - Development Services Department, File No. AASI-13-002, Southern Delivery System Finished Water Section 1C, Administratively Approved January 2, 2014
  - Development Services Department, File No. AASI-13-005, Southern Delivery System Finished Water Section 3, Administratively Approved January 29, 2014
  - Development Services Department, File No. AASI-14-001, Southern Delivery System Raw Water Pipeline Section S4AC, Administratively Approved February 18, 2014
- Pueblo County Board of County Commissioners Resolution No. P&D 09-22 approving 1041 Permit No. 2008-02, April 21, 2009
- Fountain Creek Watershed, Flood Control and Greenway District (District) Resolution 2010-01, February 26, 2010

- Colorado Department of Public Health and Environment (CDPHE) 401 Certification No. 4224, April 23, 2010, which includes the requirement to provide copies of all other annual reports

Colorado Springs Utilities reviewed all eight of the programmatic permits/approvals that are in place to identify annual reporting requirements of each. The following two programmatic permits/approvals do not specifically include annual reporting requirements.

- Memorandum of Agreement with the State of Colorado, Department of Natural Resources on behalf of the Colorado Division of Wildlife regarding the Fish and Wildlife Mitigation Plan, May 18, 2010
- United States Army Corps of Engineers Clean Water Act Section 404 Individual Permit No. SPA-2005-00131-SCO, April 26, 2010

Colorado Springs Utilities prepared an Environmental Commitment Plan and developed a Phase I Environmental Management System (EMS) to track compliance with the commitments associated with all of the programmatic permits/approvals.

## 1.2 Southern Delivery System Project Overview

SDS is a proposed regional water delivery project that will serve the City of Colorado Springs (via Colorado Springs Utilities), City of Fountain, Security Water District, and Pueblo West Metropolitan District (collectively, the SDS Participants).

The first phase of SDS includes construction of the following facilities:

- 45 miles of raw water pipeline (66- and 72-inch diameter)
- Two 78-million-gallon-per-day (mgd) raw water pump stations and one 50-mgd raw water pump station (expandable in Phase 2)
- A water treatment plant (WTP) with a capacity of 50 mgd (expandable in Phase 2)
- Approximately seven miles of finished water pipelines up to 54 inches in diameter

Phase 2 of SDS includes the following:

- A 30,500 acre-feet terminal storage reservoir on upper Williams Creek, Upper Williams Creek Reservoir (UWCR)
- Expansion of the 50-mgd raw water pump station and WTP to 100-mgd capacity
- Expansion of the treated water delivery system
- A 28,000 acre-feet exchange storage reservoir on Williams Creek, Williams Creek Reservoir and exchange conveyance facilities to transfer exchange water to and from Fountain Creek

SDS has been broken down into various work packages. The work packages and the facilities identified above are shown on Figure 1.

FIGURE 1. SOUTHERN DELIVERY SYSTEM WORK PACKAGES AND FACILITIES



## 1.3 SDS Participant Information

Contact details for the SDS Participants and their authorized agent are as follows.

### 1.3.1 SDS Participants

#### Colorado Springs Utilities

(Authorized agent acting on behalf of Participants)

Contact: John Fredell, SDS Program Director  
Plaza of the Rockies, Third Floor  
121 S. Tejon, MC930  
Colorado Springs, CO 80947  
Phone: (719) 668-8037; Fax: (719) 668-8734  
E-mail: jfredell@csu.org

#### Security Water District (Participant)

Contact: Roy Heald, District Manager  
231 Security Blvd.  
Security, CO 80911  
Phone: (719) 392-3475; Fax: (719) 390-7252  
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## 1.4 Southern Delivery System Project Regulatory Review Process

SDS has undergone, and continues to undergo, significant regulatory oversight at the federal, state, and local levels. At the federal level, Reclamation has performed extensive and detailed environmental studies as a part of the National Environmental Policy Act (NEPA) process, the culmination of which was a Final Environmental Impact Statement (FEIS) and issuance of a ROD.

The ROD for SDS was issued on March 20, 2009. It identified SDS, as shown on Figure 1, as the Preferred Alternative. SDS has been determined to cause “the least damage to the

biological and physical environment” (Reclamation 2009). The ROD included extensive commitments by the SDS Participants to significant, long-term mitigation measures.

Because SDS crosses wetlands and other waters of the United States, it requires a permit from the USACE under the dredge and fill material permit program established under Section 404 of the federal Clean Water Act. A Section 404 Permit was received for SDS on April 26, 2010. Colorado Springs Utilities has developed new wetlands as compensatory mitigation under the Section 404 Permit, and provided copies of the mitigation plans to the Fountain Creek Watershed, Flood Control, and Greenway District for review. The jurisdictional wetlands mitigation project was reviewed and approved by the USACE and Fountain Creek Watershed, Flood Control, and Greenway District prior to its construction in September 2011.

At the state level, the SDS Section 404 Permit received a Certification under Section 401 of the Clean Water Act from the Colorado Department of Public Health and Environment (CDPHE) on April 23, 2010. In February 2011, the State Water Quality Control Commission denied a challenge to the CDPHE (Water Quality Control Division) certification and upheld the certification. In April 2012, the Pueblo County District Court determined that the Commission action was not supported by the administrative record and remanded the certification. In July 2013, the Colorado Court of Appeals ruled that the state Water Quality Control Commission’s approval of the SDS certification was consistent with applicable laws and regulations and was supported by substantial evidence.

The Colorado Parks and Wildlife (CPW) also reviewed SDS, and the SDS Fish and Wildlife Mitigation Plan (FWMP) was prepared collaboratively with CPW staff and approved by both the Colorado Wildlife Commission (CWC) and the Colorado Water Conservation Board (CWCB) (Colorado Springs Utilities, City of Fountain, Security Water District, Pueblo West Metropolitan District, and Colorado Division of Wildlife 2010a). A Memorandum of Agreement implementing the FWMP was executed with the CPW on May 18, 2010.

At the county and city levels, SDS is subject to a variety of regulatory reviews and associated mitigation requirements, including the following:

- Pueblo County 1041 Permit (No. 2008-002),
- El Paso County Approval of Location, Site Development Plan, and 1041 Permit processes, and
- Land use approval by the Fountain Creek Watershed, Flood Control, and Greenway District (District).

Collectively, these permit conditions include comprehensive and extensive mitigation requirements, which are detailed in the respective resolutions of approval.

## 2.0 Listing of Permit Compliance Reporting Requirements for SDS

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A detailed and specific listing of the permit compliance reporting requirements for SDS for the six programmatic permits and approvals received for SDS that have annual reporting requirements is provided in Attachment 1 – Annual Implementation Progress Matrix.

The Annual Implementation Progress Matrix contains:

- A listing of the environmental commitments for SDS with annual reporting requirements (columns 1 and 2).
- A description of SDS implementation progress towards compliance with each of the commitments (column 3).
- A field to show if additional documentation is included in an attachment to this report (column 4).

Supporting documentation listed in column 4 is provided in the following attachments:

- Attachment 2 - Monthly Average Flow Data from United States Geological Survey (USGS) Gauge Station
- Attachment 3 - Water Quality Monitoring Data
- Attachment 4 - Complaint Log
- Attachment 5 - Emergency Response Log
- Attachment 6 - Log of Work Occurring During Non-Typical Work Hours
- Attachment 7 - Expenditures for Wastewater System Improvements Annual Report for 2014



## 3.0 Summary of SDS Activities Undertaken During the Reporting Period

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A number of actions have been taken during this reporting period related to the construction of SDS. Some of the key activities during this reporting period include the following:

### **Programmatic**

#### **Jurisdictional Wetlands Mitigation**

The initial construction of the jurisdictional wetlands mitigation, required to offset the permanent impact of 0.23 acres of jurisdictional wetlands by SDS, was completed in September 2011. Construction of the remainder of the wetlands and the surrounding riparian area was completed in April 2012. The third year of monitoring of the wetlands was completed and monitoring results were reported to the USACE. The performance goals for the wetlands were met and approval of establishment and completion from the USACE was requested. The project is located at Clear Spring Ranch and consists of approximately 0.25 acres of wetland plants and another approximate 0.2 acres of surrounding riparian area.

#### **Pueblo Dam Connection (PDC1A)**

SDS construction activities were completed at the PDC1A in 2013. Activities at Pueblo Dam during the reporting period included maintenance of stormwater best management practices (BMPs), irrigation and vegetation maintenance. The location of PDC1A is shown on Figure 1.

#### **PDC1B**

Construction of PDC1B began in August 2013 and was completed in 2014. Activities at Pueblo Dam included installation and maintenance of stormwater BMPs, rock trenching, pipe installation and backfill. The location of PDC1B is shown on Figure 1.

#### **S1 Pipeline**

SDS construction activities on the S1 Pipeline were completed in 2013, while vegetation restoration and maintenance activities continued in 2014. Activities at S1 included BMP maintenance, seeding, mulching, installation and testing of an irrigation system, and maintenance of the revegetation. The location of the S1 Pipeline is shown on Figure 1.

#### **S2 Pipeline**

SDS construction activities on the S2 Pipeline were completed in 2013, while vegetation restoration and maintenance activities continued in 2014. Activities at S2 included maintenance of BMPs, seeding, mulching, and installation and testing of an irrigation system, as well as maintenance of the revegetation. The location of the S2 Pipeline is shown on Figure 1.

### **S3 Pipeline**

SDS construction activities on the S3 Pipeline were completed in 2013, while vegetation restoration and maintenance activities continued in 2014. Activities included maintenance of BMPs, seeding, mulching, and installation and testing of an irrigation system, as well as maintenance of the revegetation. Colorado Springs Utilities has been performing additional work along S3 in an effort to address damage from rainstorms during the 2014 growing season. The location of the S3 Pipeline is shown on Figure 1.

### **S4A East/West**

SDS construction activities on the S4A East and S4A West Pipelines continued in 2014. The construction activities included installation and maintenance of BMPs, fence installation, clearing and grubbing, grading, sub-cut, trench excavation, pipe delivery, installation of pipe, pipe backfill, welding, dewatering and construction of the blow off assembly. In addition, vegetation restoration activities began, including soil preparation, seeding, mulching, installation and testing of an irrigation system, as well as maintenance of the revegetation. The location of the S4A East and West Pipelines are shown on Figure 1.

### **S4A Central**

SDS construction activities on the S4A Central Pipeline continued in 2014. Construction activities include installation and maintenance of BMPs, tunneling, pipe installation, grouting, welding, dewatering, and fiber optic installation. The location of the S4A Central Pipeline is shown on Figure 1.

### **S4B/N1A/N1B**

SDS construction activities on the S4B/N1A/N1B Pipeline were completed in 2013, while vegetation restoration and maintenance activities continued in 2014. Activities included maintenance of BMPs and vegetation restoration. The location of the S4B/N1A/N1B Pipeline is shown on Figure 1.

### **N1C/N2A**

Construction for the N1C/N2A Pipeline was completed in 2013, while vegetation restoration and maintenance activities continued in 2014. Activities included BMP maintenance, fence repair, seeding and mulching. The location of the N1C/N2A Pipeline is shown on Figure 1.

### **N2B**

Construction activities began in July 2014. Construction activities included BMP installation and maintenance, clearing, grubbing, grading, excavation, dewatering, CLSM placement, pipe installation, welding, grouting, and backfill. The location of the N2B Pipeline is shown on Figure 1.

### **FW1B**

FW1B was completed in 2012. Repair work on the detention pond was completed in 2014 and included installation of buried riprap, an erosion control blanket, grading and seeding. The location of the FW1B Pipeline is shown on Figure 1.



### **FW1C**

Construction activities began in January 2014. Construction activities included BMP installation and maintenance, clearing, grubbing, grading, trench excavation, pipe installation, welding, grouting, backfill, installation of a vault and construction of combination air release and vacuum valves (CARVs). The location of the FW1C Pipeline is shown on Figure 1.

### **FW3**

Construction activities began in January 2014 and were completed in October 2014. Construction activities included BMP installation and maintenance, clearing, grubbing, grading, excavation, tunneling, dewatering, CLSM placement, pipe installation, welding, grouting, backfill, construction of CARVs, and hydrostatic testing. The location of the FW3 Pipeline is shown on Figure 1.

### **WTP**

Construction of the SDS WTP continued in 2014. Activities included installation and maintenance of BMPs, excavation, installation of fiber optics, electrical work and yard piping, complete construction of the raw water tank and backwash recovery lagoons, partial construction of the process building, finished water pump station, decant pump station, sediment drying beds, and delivery/installation of tanks and equipment. The construction site was proactively monitored for archeological resources during excavation activities. The location of WTP is shown on Figure 1.

### **RWPS**

Construction of the three raw water pump stations (RWPS), Bradley Pump Station (BPS), Williams Creek Pump Station (WCPS) and Juniper Pump Station (JPS), continued in 2014. Activities included installation of BMPs, BMP maintenance, installation of fiber optics, construction of raw water tanks, installation of pipe, welding, backfill, concrete and rebar work, grading, excavation, installation of pump cans, valves, pump motors, and steel decking. The locations of the 3 RWPS are shown on Figure 1.

### **UWCR**

Class 3 surveys were completed at the UWCR site and eligible sites were treated. The location of the UWCR is shown on Figure 1.

### **Other**

In addition to the milestones listed above, Colorado Springs Utilities engaged in other initiatives of note during the reporting period, some of which will be on-going through the construction and operation of SDS:

- Continued identification of locations for wetlands construction to mitigate the 12.0 acres of non-jurisdictional wetlands that will be permanently impacted as a result of SDS.
- Fountain Creek realignment construction was completed in 2014. Activities included installation of buried rip rap, excavation, dewatering, backfilling, installation of erosion

control blanket, seed, wetlands plugs, willows and cottonwood stakes. Vegetation restoration and maintenance activities continued post construction.

- Completed transition of Phase I EMS to Phase II EMS, with on-going effort to track compliance with programmatic permit/approval commitments and construction permit requirements.
- Colorado Springs Utilities, or its selected contractors, continue to obtain a number of construction-related permits. The acquisition of these permits as well as the compliance with these permits is being tracked through the Phase I EMS.
- Colorado Springs Utilities continues to work cooperatively with the City of Colorado Springs, El Paso County and other regional governmental entities as part of an effort to identify a sustainable, long-term funding solution for addressing stormwater control needs. City Council adopted a new Drainage Criteria Manual (DCM) in late May. A Citizens Task Force was formed to promote a ballot initiative. Although initial public polling demonstrated support for a sustainably funded regional solution, a regional stormwater ballot proposal was defeated by voters in the November, 2014 elections. Efforts to have neighboring jurisdictions adopt a form of the DCM are still being pursued, while city council continues to examine long-term stormwater funding options.

## 4.0 Future SDS Activities

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Anticipated activities for 2015 include:

- Completion of construction on all pipelines and facilities. It is anticipated that all pipelines, RWPS, and the WTP will be substantially complete in 2015.
- Initial startup and commissioning activities will commence. Activities will include testing of all systems.
- System Integration activities will continue. Activities will include training of employees.
- 30% design of UWCR will begin in the first quarter of 2015, including geotechnical investigations.
- Pinello Wetland mitigation design and construction planned for 2015, final completion anticipated in 2016.

## 5.0 References

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- Bureau of Reclamation. 2008. Southern Delivery System Final Environmental Impact Statement. December.
- Bureau of Reclamation. 2009. Record of Decision for the Southern Delivery System Project Final Environmental Impact Statement. Record of Decision Reference No. GP-2009-01. Colorado Department of Public Health and Environment. 2010. Section 401 Water Quality Certification; Colorado 401 Certification No.: 4224; U.S. COE 404 Permit No.: SPA-1995-00131-SCO; Description: Southern Delivery System; Location: El Paso and Pueblo Counties; Watercourse: Arkansas River, Fountain Creek and tributaries; Designation: Reviewable (MA01, MA02, MA03, FO02a, FO02b); Use Protected: (FO04, LA01a, LA01b). April 23
- Colorado Springs Utilities, City of Fountain, Security Water District, Pueblo West Metropolitan District, and Colorado Division of Wildlife. 2010a. Southern Delivery System Fish and Wildlife Mitigation Plan. March 11.
- El Paso County. 2010. Planning Commission Resolution U-09-002. For the Approval of Location of the Southern Delivery System Raw Water Pipeline within the A-5 (Agricultural), PUD (Planned Unit Development), RR - 2.5 (Rural Residential) and RR-5 (Residential Rural) Zone District. March 2.
- El Paso County. 2010. Planning Commission Resolution U-09-003. For the Approval of Location of the Southern Delivery System Finished Water Pipeline within the PUD (Planned Unit Development) Zone District. March 2.
- El Paso County. 2010. Planning Commission Resolution U-09-004. For the Approval of Location of the Southern Delivery System Bradley Pump Station within the RR-5 (Residential Rural) Zone District. March 16.
- El Paso County. 2010. Planning Commission Resolution U-09-005. For the Approval of Location of the Upper Williams Creek Reservoir within the RR-5 (Residential Rural) Zone District. March 16.
- El Paso County. 2010. Planning Commission Resolution U-09-007. For the Approval of Location of the Exchange Flow System within the RR-5 (Residential Rural) Zone District. March 16.
- El Paso County. 2014. Development Services Department, File No. AASI-13-002, Southern Delivery System Finished Water Section 1C. Administratively Approved Permit Issued to Conduct a Designated Activity of State Interest or to Engage in Development in a Designed Area of State Interest in El Paso County, Colorado. January 2.
- El Paso County. 2014. Development Services Department, File No. AASI-13-005, Southern Delivery System Finished Water Section 2. Administratively Approved Permit Issued to Conduct a Designated Activity of State Interest or to Engage in

- Development in a Designed Area of State Interest in El Paso County, Colorado. January 29.
- El Paso County. 2014. Development Services Department, File No. AASI-14-001, Southern Delivery System Raw Water Pipeline Section S4AC. Administratively Approved Permit Issued to Conduct a Designated Activity of State Interest or to Engage in Development in a Designed Area of State Interest in El Paso County, Colorado. February 18.
- Fountain Creek Watershed, Flood Control, and Greenway District. 2010. Board of Directors Resolution 2010-01 – Land Use. A Resolution recommending that the El Paso County Planning Commission approve applications by Colorado Springs Utilities and on behalf of the Project Participants for location approvals for the Southern Delivery System located within the Fountain Creek Watershed Management Area and approving those portions of the Southern Delivery System located within the Fountain Creek Corridor. February 26.
- Pueblo County. 2009. 1041 Permit No. 2008-002. The Board of County Commissioners of Pueblo County Colorado; A Resolution Approving 1041 Permit No.2008-002 With Terms and Conditions for Construction and Use of a Municipal Water Project Known as the Southern Delivery System within Pueblo County, Colorado. April 21.
- State of Colorado. 2010. Memorandum of Agreement by and between the State of Colorado, acting by and through the Department of Natural Resources, for the use and benefit of the Division of Wildlife and Colorado Springs Utilities, acting as the Project Manager for the Southern Delivery System. May 18.
- U.S. Army Corps of Engineers. 2010. Department of the Army Permit; Permittee: Colorado Springs Utilities; Permit No. SPA-2005-00131-SCO; Issuing Office: Albuquerque District, U.S. Army Corps of Engineers. April 26.

# Implementation Progress Matrix

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The cells in the implementation column have been color coded to indicate which conditions have been completed, are no longer applicable or are not required until SDS is operational. Cells in gray have either been completed or are no longer applicable. Cells in blue are not required until SDS is in operation.

# ATTACHMENT 1

## Annual Implementation Progress Matrix

Reporting Requirements		CY2014 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
<b>Bureau of Reclamation - Record of Decision</b>			
<b>Environmental Commitments</b>			
p. 11, ¶1	Such contracts will, at a minimum, include a requirement for the SDS Participants to submit to Reclamation an annual compliance report that certifies progress in successfully implementing these commitments in a timely manner as prescribed in this ROD and any contracts.	This Permit Compliance Annual Report is being prepared to demonstrate the progress in successfully implementing the commitments as prescribed in the ROD and the annual reporting requirements found in the other programmatic permits and approvals including: the Pueblo County 1041 Permit, the El Paso County Location Approvals, El Paso County 1041 Permits, the CDPHE 401 Water Quality Certification and the Fountain Creek Watershed, Flood Control and Greenway District approval.	No
p. 11, ¶2	The Participants must obtain other significant Federal, State, and local permits, approvals, and agreements for the SDS Project.	The programmatic permits for the Southern Delivery System (SDS) are in place. The selected construction contractors are required through the contract documents to submit copies of all permits acquired. The SDS Participants are tracking the permit acquisition progress for each of the work packages as construction activities commence.	No
p. 11, ¶3	A detailed and specific list of environmental commitments and plan for their implementation will emerge from this coordination process.  The timing of this process is important. Coordination of implementation of the environmental commitment plan will occur prior to executing any contracts for the SDS Project.	An Environmental Commitments Plan was completed and submitted to the Bureau of Reclamation on March 18, 2011.	No
<b>Participants' Commitments: General Commitments</b>			
p. 12, Bullet 1	Comply with all applicable permits, regulations, and laws including but not limited to CDPHE, USCOE 404, and local land use permits obtained for the SDS Project.	Compliance with permit and regulatory requirements is being tracked through the implementation of an Environmental Management System (EMS). In addition, the construction contract documents for each of the work packages include permit and regulatory compliance requirements. The EMS ensures that all applicable actions necessary for compliance are taken in a timely manner.	No
p. 12, Bullet 2	Construct and operate the SDS Project in a manner that does not differ substantially from that evaluated in this FEIS, except under emergency conditions, and unless additional and appropriate environmental investigations are completed by Reclamation and approval is then given to Participants to alter construction or operation of the SDS Project.	The SDS Participants intend to construct and operate the preferred alternative that was identified in the FEIS in a manner that does not differ substantially from that evaluated in the FEIS.	No
p. 12, Bullet 3	Develop and implement a head pressure monitoring program on the Joint Use Manifold to isolate effects attributable to the SDS Project and to mitigate those effects if they were to occur. This program will be developed over a 3-year period from the date that water is first delivered from the Joint Use Manifold for the SDS project. Development of the monitoring program will include involvement of all other Joint Use Manifold users.	This commitment is no longer applicable to SDS. The Joint Use Manifold will not be used with the construction of the Pueblo Dam Connection at the North Outlet Works.	No

**ATTACHMENT 1**

## Annual Implementation Progress Matrix

Reporting Requirements		CY2014 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
p. 12, Bullet 4	Develop an integrated adaptive management program for the project that will be coordinated with the Participants' existing monitoring programs and the Environmental Management System discussed in Appendix F of the FEIS. The integrated adaptive management program will be finalized prior to executing any contracts for the SDS project.	An Integrated Adaptive Management Plan (IAMP) has been developed and was submitted to the Bureau of Reclamation on March 18, 2011. The requirements of the IAMP will be coordinated with the development of the Phase II EMS that Colorado Springs Utilities is developing. The requirements of the IAMP are not effective until SDS is operational.	No
<b>Participants' Commitments: Surface Water</b>			
p. 12, Bullet 1	Comply with the Upper Arkansas Voluntary Flow Management Program except during emergency conditions as defined in Section 2.b. of the Memorandum Of Understanding for Settlement of Case No. 04CW129, Water Division 2 (Chaffee County Recreation In-Channel Diversion).	The SDS Participants will comply with the Upper Arkansas Voluntary Flow Management Program.	No
p. 13, Bullet 2	Comply with the Pueblo Flow Management Program pursuant to existing intergovernmental agreements. If Reclamation and the Participants receive credible information that project operations are impairing physical diversion of a senior water right, contrary to Colorado water law, the Participants will immediately initiate discussions among the parties, including the party alleging the impairment of Reclamation, to develop a solution and remedy the impairment in compliance with Colorado water law.	The SDS Participants will comply with the Pueblo Flow Management Program.	No
p. 13, Bullet 3	Participants will consult with Reclamation each year on the average annual flow in Fountain Creek. If the average annual stream flow of Fountain Creek as measured at Pueblo (USGS gauge station number 07106500) exceeds the scope and range of the flow estimated and analyzed in the Final Environmental Impact Statement (see Table 33 of the FEIS), then Participants will coordinate with Reclamation, within their adaptive management plan, to evaluate the cause(s) for the change in flows and determine whether appropriate response actions, such as monitoring and/or mitigation measures, are warranted. Each year, Participants will report to Reclamation the average annual flow in Fountain Creek at Pueblo together with other relevant data.	The average annual flow during this reporting period in Fountain Creek as measured at USGS gauge station number 07106500 was approximately 132.6 cubic feet per second (cfs). Table 33 of the FEIS reported the average annual simulated streamflow at this location under existing conditions as 188 cfs and under the preferred alternative (Alt 2) as 253 cfs. As the Southern Delivery System was under construction during this reporting period, no flows have been introduced to Fountain Creek as a result of this project. See Attachment 2 for the monthly average flow data from USGS Gauge Station Number 07106500.	Attachment 2 - Monthly Average Flow Data from USGS Gauge Station Number 07106500
p. 13, ¶1	Surface water mitigation measures will resolve adverse effects to physical diversions of senior water rights.	This requirement is a summary statement of the specific surface water mitigation measures described in the three bullets listed above. The SDS Participants are implementing the surface water mitigation measures per the Upper Arkansas Voluntary Flow Management Program and the Pueblo Flow Management Program.	No
<b>Participants' Commitments: Water Quality</b>			
p. 13, Bullet 1	Include water quality monitoring and adaptive management within the integrated adaptive management program (see Participants' General Commitments).	The Monitoring Plan has been completed and was submitted to the Bureau of Reclamation on March 18, 2011.	No
p. 13, Bullet 2	Begin implementing water quality monitoring when construction of the project begins. This will allow about three years of baseline data to be collected before project operations begin.	A Joint Funding Agreement has been executed with the U.S. Geological Survey (USGS) on the water quality monitoring program. Water quality monitoring began in January, 2011.	Attachment 3 - Water Quality Monitoring Data



**ATTACHMENT 1**

## Annual Implementation Progress Matrix

Reporting Requirements		CY2014 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
p. 13, Bullet 3	Submit water quality monitoring data, including trend analyses, for the preceding calendar year to Reclamation by January 31st of the subsequent year.	A Joint Funding Agreement has been executed with the U.S. Geological Survey (USGS) on the water quality monitoring program. Water quality monitoring began in January, 2011. See Attachment 3 for the water quality monitoring data. USGS reports data on a water year basis (October-September). The annual report will present data based on that reporting period.  Trend analysis is not include in this year's report because the approved IAMP requires trend analysis after 5 years of data is available. Data has been collected for 4 years.	Attachment 3 - Water Quality Monitoring Data
p. 13, Bullet 4	If the Colorado Department of Public Health and Environment (CDPHE) determines that operation of the SDS Project is causing significant adverse water quality effects, the Participants will coordinate with Reclamation, CDPHE, and other interested parties to evaluate and select measures to mitigate adverse effects.	This requirement is not applicable yet as SDS is under construction and not operational at this time.	No
p. 13, Bullet 5	In the event that operation of the SDS Project causes, or threatens to cause, stream flows in the Arkansas River or other waterways to diminish to low levels that will contribute significantly to elevated concentrations/densities of dissolved selenium, <i>E. coli</i> , or sulfate, the Participants will coordinate with Reclamation, CDPHE, CDOW, and other interested parties to evaluate and select measures to mitigate adverse effects.	This requirement is not applicable yet as SDS is under construction and not operational at this time.	No
p. 13, ¶1	Development and implementation of a water quality monitoring and adaptive management plan will provide a means of detecting changes in water quality, judging whether they are likely caused by operation of the SDS Project, and addressing actual effects in a systematic manner. Additionally, implementation of the geomorphology mitigation measures (below) will reduce suspended sediment and total recoverable iron concentrations in Fountain Creek and the lower Arkansas River.	This requirement is a summary statement of the specific water quality commitments described in the five bullets listed above. The Monitoring Plan, Geomorphic Mitigation Plan and IAMP have been completed. These plans were submitted to the Bureau of Reclamation in March 2011. The plans will be implemented during the construction and operation of the SDS in accordance with this commitment.	No

**ATTACHMENT 1**

## Annual Implementation Progress Matrix

Reporting Requirements		CY2014 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
<b>Participants' Commitments: Geomorphology</b>			
p. 14, Bullet 1	<p>Prepare a geomorphic mitigation plan and secure Reclamation approval prior to executing any contracts for the SDS Project. This plan could include, but is not limited to:</p> <ul style="list-style-type: none"> <li>• Evaluate and consider strategies to remove sediments that reduce the effectiveness of Corps levees located near Fountain Creek at its confluence with the Arkansas River</li> <li>• Evaluate and consider strategies to increase the sinuosity of Fountain Creek at appropriate locations in order to reduce undesirable erosion and sedimentation</li> <li>• Evaluate and consider strategies at appropriate locations along Fountain Creek to reduce undesirable erosion and sedimentation</li> <li>• Select geomorphic mitigation measures for SDS Project effects that are, to the extent practicable, consistent with priority projects identified in the Corps of Engineers' Fountain Creek Watershed Study and the Fountain Creek Corridor Master Plan. Locations where geomorphic mitigation projects could occur include, but are not limited to:                             <ul style="list-style-type: none"> <li>• Fountain Creek at the Clear Spring Ranch site, directly upstream and downstream of the confluence of Little Fountain Creek and Fountain Creek (approximately 4 miles)</li> <li>• Fountain Creek from upstream of Fountain Boulevard to upstream of Colorado 85/87 at the Sand Creek confluence (approximately 3 miles)</li> </ul> </li> </ul>	<p>A Geomorphic Mitigation Plan was completed and submitted to the Bureau of Reclamation on March 15, 2011. The Bureau of Reclamation approved this plan on April 26, 2011. Under the Geomorphic Mitigation Plan, data collection is to begin on or about October 15 following the start of project construction, or October 15 three years prior to the SDS commencing operations, whichever is later. CSU, in conjunction with USGS, has been performing geomorphological monitoring.</p> <p>The Fountain Creek realignment was completed in 2014, which included drop control structures, channel grading, installation of buried rip rap, erosion control blanket, seed, wetlands plugs, willows and cottonwood stakes.</p>	No
p. 14, Bullet 2	Complete pre-project geomorphic mitigation, including channel stabilization projects and non-structural options such as conservation easements, before the project is operational. Channel stabilization could include, but is not limited to, increasing stream sinuosity, flattening of steep side slopes, installation of grade control structures and use of buried riprap, erosion blankets, and/or vegetative cover for channel stabilization in areas of high and/or erosive velocities.	The SDS Participants have coordinated extensively with Pueblo County regarding the scope of a Fountain Creek dredging project. On August 30, 2010, an agreement was reached by which the SDS Participants provided approximately \$2.2 million in funding to Pueblo County for the Fountain Creek dredging project. The SDS Participants made this payment to Pueblo County on September 27, 2010.	No
p. 14, Bullet 3	Design and construct an energy dissipation structure that will protect against erosion at the outlet of the pipeline from Williams Creek Reservoir to Fountain Creek.	The design of the Williams Creek Reservoir is anticipated to begin during the period from 2020 to 2025. An energy dissipation structure at the pipe outlet will be incorporated into the design.	No
p. 14, Bullet 4	Evaluate and implement appropriate future geomorphic stabilization projects, if such future projects are determined to be necessary after the project is operational.	This requirement is not applicable yet as SDS is under construction and not operational at this time. It is yet to be determined if project operations will necessitate such projects.	No
p. 14, ¶1	When implemented, these recommendations will mitigate potential adverse effects on geomorphology by avoiding or minimizing effects of return flow discharges through an energy dissipation structure, compensating for anticipated effects, and responding to effects identified after project operations begin.	This requirement is a summary statement of the specific water quality commitments described in the five bullets listed above. A Geomorphic Mitigation Plan has been completed and will be implemented during the construction and operation of SDS in accordance with this commitment.	No

**ATTACHMENT 1**

## Annual Implementation Progress Matrix

Reporting Requirements		CY2014 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
<b>Participants' Commitments: Aquatic Life</b>			
p. 15, Bullet 1	Submit a proposed wildlife mitigation plan to the Colorado Wildlife Commission (Wildlife Commission) pursuant to C.R.S. 37-60-122.2. This proposal will include actions the Participants propose to mitigate impacts that the SDS Project may have on fish and wildlife. As required by that statute, the Wildlife Commission will evaluate the probable impact of the project on fish and wildlife and, if the Participants and Wildlife Commission cannot agree upon reasonable mitigation, the Wildlife Commission will make recommendations to the Colorado Water Conservation Board (CWCBC) regarding what it believes to be reasonable mitigation actions. If the Participants and the Wildlife Commission agree on a mitigation plan, the Wildlife Commission will submit that agreement to the CWCBC, which must adopt the agreement as the state's official position. If the Participants and the Wildlife Commission do not reach agreement on a mitigation plan, the CWCBC will consider the plan submitted by the Participants and the recommendations of the Wildlife Commission, which then becomes the State's official position, or submit its own recommendations to the Governor, who will ultimately determine the state's official position on the proposed wildlife mitigation plan.	A Wildlife Mitigation Plan was developed in cooperation with the Colorado Division of Wildlife, which was then submitted to the Colorado Wildlife Commission pursuant to C.R.S. 37-60-122.2. The Colorado Wildlife Commission approved the Wildlife Mitigation Plan and the Colorado Water Conservation Board adopted it. A Memorandum of Agreement between the SDS Participants and the Colorado Department of Natural Resources, on behalf of the Colorado Division of Wildlife, was executed May 18, 2010.	No
p. 15, Bullet 2	In the event that the operation of the SDS Project causes, or threatens to cause, stream flows in Fountain Creek or the Arkansas River to diminish to low levels that could contribute significantly to impairment of aquatic life, coordinate with Reclamation, CDPHE, CDOW and other interested parties to evaluate and select measures to mitigate adverse effects.	This requirement is not applicable yet as SDS is under construction and not operational at this time.	No
p. 15, Bullet 3	Evaluate and consider participation in CDOW fish hatchery programs.	The Memorandum of Agreement between the SDS Participants and the Colorado Department of Natural Resources, on behalf of the Colorado Division of Wildlife (CDOW), includes a commitment that Colorado Springs Utilities will either construct 7.5 acres of fish rearing ponds for warm water species or provide \$7.5M in funding to CDOW for this construction. The MOA stipulates that construction of four (4) acres of these ponds shall be completed no later than three years prior to the date Upper Williams Creek Reservoir is placed in service. The construction of the remaining 3.5 acres of rearing ponds shall be completed no later than five (5) years after Upper Williams Creek Reservoir is in service.	No

# ATTACHMENT 1

## Annual Implementation Progress Matrix

Reporting Requirements		CY2014 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
p. 15, Bullet 4	Monitor the effects of the operation of the SDS Project upon aquatic life in Fountain Creek and the Arkansas River between Pueblo Dam and the Las Animas Gage. Aquatic sampling will be conducted once per year at up to 10 locations. Monitoring methods and locations will be identified in the proposed wildlife mitigation plan that will be submitted to the Colorado Wildlife Commission pursuant to C.R.S. 37-60-122.2. Use the information from this monitoring in the adaptive management program for the SDS Project.	This requirement is not applicable yet as SDS is under construction and not operational at this time.	No
p. 15, ¶1	When implemented, these recommendations will mitigate potential adverse effects on aquatic life by avoiding or minimizing effects, compensating for anticipated effects, and detecting and responding to effects identified after project operations begin.	This requirement is a summary statement of the specific aquatic life commitments described in the four bullets listed above. The SDS Participants will implement the Fish & Wildlife Mitigation Plan as well as the agreements from the MOA with the Colorado Department of Natural Resources during the construction and operation of SDS.	No
<b>Participants' Commitments: Wetlands, Waters, and Riparian Vegetation</b>			
p. 15, Bullet 1	Design final alignments and facilities to avoid and minimize wetland impacts.	The pipeline alignments and facilities are designed in accordance with the information that was submitted and approved by the USACE with the individual 404 permit application for SDS. The requirements of the 404 permit are included in the construction contract document for each work package, as applicable.	No
p. 15, Bullet 2	Assess alternative construction methods for pipeline crossings (i.e., directional drilling v. open cut) to minimize wetland and stream impacts.	Alternative construction methods for pipeline crossings were considered during the development of the individual 404 permit application for the SDS. The final design of pipeline crossings is in accordance with the information provided in the individual 404 permit where impacts to jurisdictional waters were described.	No
p. 16, Bullet 3	Mitigate impacts to jurisdictional and non-jurisdictional wetlands in areas of temporary, short-term effects such as pipeline crossings, on-site at the place of disturbance with similar wetlands and soils to replace existing wetland functions and values.	The construction contract documents for each work package, as applicable, include the 404 permit Nationwide Permit (NWP) 12 requirements for all temporary, short-term effects to jurisdictional and non-jurisdictional wetlands. The impacts have been mitigated on-site through the implementation of the NWP 12 requirements. Areas with temporary impacts have been re-seeded and to date have shown satisfactory establishment.	No

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Reporting Requirements		CY2014 Annual Report Information	
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p. 16, Bullet 4	Mitigate all unavoidable, permanent impacts to jurisdictional and non-jurisdictional wetlands with compensatory wetlands that replace existing wetland functions and values. Compensatory wetland mitigation will likely occur at the Clear Spring Ranch site on Fountain Creek downstream of the City of Fountain.	Colorado Springs Utilities procured engineering design services for the compensatory wetland mitigation project at the Clear Spring Ranch site. The SDS Participants presented the final design for Reclamation and USACE review and approval in April 2011. The jurisdictional wetlands mitigation project construction was initiated in September 2011 and completed in April 2012. Monitoring of this wetland continued in 2014 and performance goals established for the wetland were met. Approval/Completion of the project has been requested from USACE. Approximately 5.5 acres of non-jurisdictional wetlands mitigation were included in the Fountain Creek realignment project.	No
p. 16, Bullet 5	Control Tamarisk that may establish around newly constructed reservoirs.	This requirement is not applicable yet as no reservoir construction has commenced for SDS during this reporting period.	No
p. 16, Bullet 6	Evaluate and consider a strategy to increase the sinuosity of Fountain Creek at appropriate locations in order to create wetlands areas.	The SDS Participants considered options to increase the sinuosity of Fountain Creek at the Clear Spring Ranch site in order to create wetland areas in association with the design of the compensatory wetland mitigation project. The Fountain Creek realignment was completed in 2014, which included drop control structures, channel grading, and included the creation of approximately 5.5 acres of wetlands that were planted with wetlands plugs, willows and cottonwood stakes.	No
p. 16, Bullet 7	Evaluate and consider the construction and maintenance of new areas of wetlands along Fountain Creek in order to participate in wetlands banking programs. Evaluate and consider cooperation with Colorado agencies to expand such a wetlands creation process.	The USACE verbally denied Colorado Springs Utilities the opportunity of a wetland banking partnership with Colorado agencies, stating that Colorado Springs Utilities cannot share the umbrella of a wetland banking tool. Therefore, there is no incentive for Colorado Springs Utilities and another agency to work together under the intent of this condition.	No
p. 16, ¶1	Mitigation plans for jurisdictional and non-jurisdictional wetlands will be submitted for approval by the Corps of Engineers and Reclamation, respectively. All design and planning measures for wetlands, waters, and riparian vegetation will be completed before any contracts for the SDS Project.	Mitigation plans for jurisdictional and non-jurisdictional wetlands were submitted for approval by the USACE and reclamation prior to construction of PDC1A. Colorado Springs Utilities procured engineering design services for the compensatory wetland mitigation project at the Clear Spring Ranch site. The SDS Participants presented the final design for Reclamation and USACE review and approval in April 2011. The jurisdictional wetlands mitigation project was constructed in September 2011.	No

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p. 16, ¶2	By reviewing the location of wetlands during final design, effects on wetlands can be avoided and minimized. Specifically, the pipeline construction corridors through wetlands will be reduced to the minimum width practicable. Similarly, construction methods that do not involve trenching through a wetland will avoid impacts. Wetlands mitigated in place and off-site will replace affected wetlands on a 1:1 ratio and will provide similar functions and values. The 404 permitting process is ongoing and the final off-site mitigation ration for jurisdictional wetlands for the 404 permit has not yet been determined.	This requirement is a summary statement of the specific wetlands, waters and riparian vegetation commitments described in the seven bullets listed above. The pipeline alignments and facilities have been designed in accordance with the information that was submitted and approved by the USACE with the individual 404 permit application for SDS, as applicable. Wetland impacts were minimized. The requirements of the 404 permit are included into the construction contract document for each work package, as applicable.	No
<b>Participants' Commitments: Vegetation</b>			
p. 16, Bullet 1	Prior to final design, review locations of Needle and Thread grass -Blue Grama Grasslands, high quality shrublands and woodlands, and other areas with desirable vegetation to determine design changes within the current study area that will avoid and minimize impacts.	Pre-construction wildlife and vegetation surveys are being completed as part of the final design for each of the work packages. The results of these surveys are being incorporated into the construction contract documents as necessary.	No
p. 16, Bullet 2	Replace mature trees (diameter at breast height of 12 inches or greater) within construction areas at a 1:1 ratio with the same or similar native species with available nursery container stock or pole plantings as soon as practicable after construction activities have ended.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 16, Bullet 3	For 1 year after construction, monitor the construction areas to determine if appropriate native vegetation is establishing. If native vegetation is not establishing, the site will be reseeded with appropriate species.	Revegetation efforts have begun or been completed on the PDC1A, PDC1B, S1, S2, S3, S4A West, S4A East, S4B/N1A, N1B, N1C, N2A, FW1A, FW1B, and FW3 pipeline work packages. All of these work packages are being monitored following established protocols.	No
p. 16, Bullet 4	In the appropriate season prior to construction, survey potential construction areas with known populations of dwarf milkweed and other plant species of concern, to locate areas where impacts can be avoided and minimized to the extent practicable with design changes within the current study area. After identifying populations to avoid, mark populations within or nearby the construction easement as environmentally sensitive so that workers avoid inadvertent impacts.	Pre-construction wildlife and vegetation surveys were completed for each of the work packages. The results of these surveys were incorporated into the construction contract documents as necessary.	No
p. 17, Bullet 5	During construction, wash major construction equipment before it enters the site so that noxious weeds are not spread from other construction sites.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 17, Bullet 6	Use certified weed-free mulch after seeding construction areas.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 17, Bullet 7	Reseed construction areas with comparable native vegetation as soon as practicable after disturbance, using seed that does not contain any noxious weed seed.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No

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Reporting Requirements		CY2014 Annual Report Information	
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p. 17, Bullet 8	Monitor construction areas for 3 years after construction to assess if noxious weeds have invaded the site. If noxious weeds are present, weed control plans will be formulated and completed.	As part of the pre-construction vegetation surveys that are completed for each work package, a noxious weed survey is conducted. The noxious weed survey includes recommended weed control methods. This information is being incorporated into the contract documents. Monitoring of construction areas will continue for three years after construction to ensure that any necessary weed control is performed. Completed work packages are being monitored for noxious weeds, control plans are in place and observed noxious weeds have been treated consistent with these plans..	No
p. 17, Bullet 9	Because the project may indirectly increase the spread of tamarisk, the Participants will work with the Colorado Department of Agriculture's Colorado Noxious Weed Management Team on tamarisk issues in the Arkansas Valley including submitting a request for partnership evaluation.	The Fish and Wildlife Mitigation Plan has identified the inlet area at the Pueblo Reservoir as an area of specific interest and identified the Colorado Department of Agriculture's Colorado Noxious Weed Management as a consulting agency.	No
p. 17, ¶1	Impacts to plant species and communities of concern and other sensitive vegetation areas can be avoided and minimized during final design and implementation. Because mitigation measures such as transplanting of individuals are often unsuccessful, avoidance and minimization will ensure survival, especially of plant species of concern. Seeding disturbed areas, replacing mature trees, and controlling noxious weeds will replace existing vegetation types and structural diversity and will ensure that high quality habitat remained.	As described in the previous nine responses, numerous measures are being implemented to minimize potential impacts to plant species and communities of concern and other sensitive vegetation areas. For this item and the previous nine, no concerns have been identified to date.	No
<b>Participants' Commitments: Wildlife</b>			
p. 17, Bullet 1	Submit a proposed wildlife mitigation plan to Colorado Wildlife Commission pursuant to C.R.S. 37-60-1212.2 as described above.	A Wildlife Mitigation Plan was developed in cooperation with the Colorado Division of Wildlife , which was then submitted to the Colorado Wildlife Commission pursuant to C.R.S. 37-60-122.2. The Colorado Wildlife Commission approved the Wildlife Mitigation Plan and the Colorado Water Conservation Board adopted it. A Memorandum of Agreement between the SDS Participants and the Colorado Department of Natural Resources, on behalf of the Colorado Division of Wildlife was executed May 18, 2010.	No
p. 17, Bullet 2	Promptly revegetate all disturbed areas with native species that provide species diversity and food and cover for large game and wildlife habitat.	This commitment is being incorporated into the revegetation contract documents for each of the work packages, as applicable.	No
p. 17, Bullet 3	Conduct clearance surveys in suitable habitat for state-listed species following standard protocols, as available, prior to construction (e.g., CDOW undated).	The SDS Participants are completing pre-construction wildlife and vegetation surveys as part of the final design for each of the work packages. The results of these surveys have been incorporated into the construction contract documents as necessary.	No

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Reporting Requirements		CY2014 Annual Report Information	
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p. 17, Bullet 4	Conduct raptor nest surveys prior to construction and impose seasonal restrictions to surface activity within recommended buffers (generally 1/4 to 1/2 mile) around active raptor nest sites and heron rookeries during construction.	Pre-construction raptor nest and heron rookery surveys are being completed for each of the work packages. The results of these surveys have been incorporated into the construction contract documents as necessary.	No
p. 17, Bullet 5	Consult with CDOW and U.S. Fish and Wildlife Services' Migratory Permit Bird Office to develop mitigation for unavoidable loss of raptor nests. Options may include constructing artificial nests in suitable habitat or enhancing prey habitat.	The following protocol identified in the Fish and Wildlife Plan will be used during construction of SDS: If a nest is detected during the pre-construction raptor nest survey, Colorado Springs Utilities will coordinate with Colorado Division of Wildlife and USFWS to develop mitigation for unavoidable raptor nest loss. A nest has been identified in one of the pipeline alignments and CDOW was consulted as a lead agency. A raptor nest mitigation plan was submitted and approved and Colorado Springs Utilities mitigated the nest. A nest was installed at Clear Spring Ranch.	No
p. 17, Bullet 6	Develop construction schedules to avoid impacts to nesting migratory birds. If construction is scheduled to occur during the nesting season (April 1 through August 31) in areas where migratory birds may nest, a qualified biologist will conduct a nesting bird survey prior to the commencement of construction activities to determine the presence of migratory birds and their nests. If an active nest is detected, a buffer zone between the nest and the limit of construction will be flagged and avoided during the nesting season, or construction will be scheduled outside of the nesting season.	The following protocol will be used during construction of SDS: If an active nest is detected during the pre-construction raptor nest survey, Colorado Springs Utilities will coordinate with Colorado Division of Wildlife and the construction contractor to ensure a buffer zone between the nest and the limit of construction is identified and the area avoided during the nesting season, or construction will be scheduled outside of the nesting season.	No
p. 18, Bullet 7	Conduct pre-construction surveys for swift fox den sites within appropriate habitat along the pipeline corridor and proposed reservoir sites. Avoid surface disturbance within 1/4 mile of active den sites while young are den-dependent (March 15 -June 15).	Pre-construction wildlife and vegetation surveys have been completed as part of the final design for each of the work packages. The results of these surveys were incorporated into the construction contract documents as necessary.	No
p. 18, Bullet 8	Restrict pesticides for rodent control within swift fox overall range.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 18, Bullet 9	Mitigate impacts to state-listed amphibian species by avoiding, minimizing, and mitigating wetland effects as described above.	The 404 Individual Permit, the 404 Compensatory Wetland Mitigation Plan and the Fish and Wildlife Mitigation Plan will be followed.	No
p. 18, Bullet 10	Impose seasonal restrictions on construction to avoid sensitive large game winter habitat (from first large snowfall to summer green-up).	Pre-construction wildlife and vegetation surveys were completed as part of the final design for each of the work packages. The results of these surveys were incorporated into the construction contract documents as necessary.	No
p. 18, Bullet 11	Install wildlife crossovers (trench plugs) during pipeline construction with ramps on each side at a maximum of 1/4 mile intervals and at well-defined game trails.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No



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Reporting Requirements		CY2014 Annual Report Information	
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p. 18, Bullet 12	Create additional nesting habitat or nest boxes in nearby trees for the Lewis' woodpecker when nest trees are destroyed.	Pre-construction wildlife and vegetation surveys were completed as part of the final design for each of the work packages. No Lewis' woodpecker nests were identified.	No
p. 18, ¶1	By replacing vegetation including structural diversity, the long-term effects on wildlife will be reduced by allowing wildlife to return to disturbed areas. Pre-construction surveys will identify wildlife use at the time of construction and allow for planning for avoidance and minimization. Imposing seasonal and/or daily restrictions on construction will enable wildlife to use important habitat, especially during breeding and other critical periods. Wildlife crossovers installed within the pipeline trench will facilitate wildlife passage and provide escape routes for wildlife trapped within the trench, thereby reducing mortality.	As described in the previous twelve responses, numerous measures are being implemented to minimize potential impacts to wildlife. These measures have been incorporated in the construction contract documents. Measures have been implemented and some measures, such as ramps in the trenches have been placed at shorter intervals than required.	No
<b>Participants' Commitments: Recreation</b>			
p. 18, Bullet 1	During short-term construction activities that require trail closures of developed recreational trails, designate a safe and reasonable detour around the project site. Post signs directing trail users.	This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 18, Bullet 2	Work with the local municipality to establish alternate trails with consistent width, surfacing, and signage.	Colorado Springs Utilities is coordinating with affected local municipalities as needed to identify temporary alternate trails to be used or constructed during construction.	No
p. 18, Bullet 3	Within developed parks with temporary effects, commit to full reclamation of the impact area by replacing turf, irrigation systems, and other facilities that could be affected. Provide follow-up monitoring and maintenance for 1 year to ensure that reclamation efforts are successful.	There were no temporary effects to developed parks as a result of SDS construction this year. This commitment is being incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 18, Bullet 4	In developed park areas with permanent, above ground SDS Project facilities, reconfigure park facilities that will be directly affected and visually screen SDS Project facilities from other park uses with vegetation, berming or attractive fencing.	Construction has begun on the Juniper Pump Station. Colorado State Parks was a reviewing agency on the design. Fencing has been erected to screen construction operations.	No
p. 18, Bullet 5	Seek opportunities to enhance angling, boating, or other recreation opportunities at Lake Henry, Lake Meredith, and Holbrook Reservoir so that they are less vulnerable to water level fluctuations. Work with the CDOW to identify priority projects and include them in a proposed wildlife mitigation plan to the Colorado Wildlife Commission pursuant to C.R.S. 37-60-122.2 as above.	A Memorandum of Agreement between the SDS Participants and the Colorado Department of Natural Resources, on behalf of the Colorado Division of Wildlife, which adopted the Fish and Wildlife Mitigation Plan, was executed May 18, 2010.	No
p. 19, ¶1	The proposed mitigation measures will reduce the impact of project facility construction on trail users. They will also reduce the short- and long-term impacts of project facilities on park infrastructure, vegetation, aesthetics, and recreation experiences. Collaboration with the CDOW to enhance fishing and boating opportunities may result in such improvements to recreation at Lake Henry, Lake Meredith, and Holbrook Reservoir.	As described in the previous five responses, numerous measures are being implemented to minimize potential impacts to recreation opportunities. For this item and the previous five, no concerns have been identified to date.	No

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Reporting Requirements		CY2014 Annual Report Information	
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<b>Participants' Commitments: Socioeconomics and Land Use</b>			
p. 19, Bullet 1	Acquire properties and easements through voluntary, willing participant agreements to the maximum extent practicable.	Colorado Springs is coordinating with individual landowners to acquire properties and easements through voluntary negotiations to the maximum extent practicable.	No
p. 19, Bullet 2	Develop a construction management plan to outline best management practices to minimize impacts to surrounding properties and submit plan to Reclamation for approval prior to construction.	A Socioeconomic Construction Management Plan has been completed and was submitted to the Bureau of Reclamation on March 15, 2011. The Bureau of Reclamation approved this plan on April 26, 2011.	No
p. 19, ¶1	Adverse short-term effects on landowners with parcels that will contain SDS features will be offset through mutually agreed upon compensation. The land use mitigation measures will minimize disturbances to properties near the project during construction or minimize land use changes and conflicts.	A Socioeconomic Construction Management Plan has been completed and was submitted to the Bureau of Reclamation on March 15, 2011. The Bureau of Reclamation approved this plan on April 26, 2011. The plan provided for appropriate compensation and mitigation.	No
<b>Participants' Commitments: Cultural Resources</b>			
p. 19, Bullet 1	Comply with the requirements of the Programmatic Agreement between Reclamation, the ACHP, Colorado Springs, and the Colorado SHPO (Appendix I of the FEIS).	The requirements of the Programmatic Agreement are referenced or included in the construction contract documents for each work package.	No
p. 19, ¶1	Development of the project alternatives will result in impacts to non-renewable historic properties. As a result, it will be necessary to implement a mitigation plan in an effort to resolve any adverse effects. Mitigation may be accomplished through avoidance, implementation of protective measures, or data recovery. If avoidance and preservation are not possible, a data recovery plan may be used to collect and analyze significant information, thus preserving that information. Data collection as a mitigation measure should only be implemented when other means to protect or preserve historic properties have been exhausted or are not feasible. Within the data recovery plan, specific research problems concerning scientific, humanistic, and cultural concerns will be developed. Research also will focus on problems in prehistoric and historic archaeological methods and theory. Ultimately, the data collected likely will provide information regarding the cultures that have occupied the area in the past.	Colorado Springs Utilities prepared a Treatment Plan which addresses how mitigation will be determined for each eligible or potentially eligible cultural resource site. The Treatment Plan was executed in June 2011.	No
<b>Participants' Commitments: Indian Trust Assets</b>			
p. 19, ¶1	Continue consultation with Native American Tribes in accordance with the Programmatic Agreement. Under the Agreement, Reclamation and the SDS Participants will coordinate with the tribes to identify and mitigate impacts to any traditional cultural properties or resources.	The requirements of the Programmatic Agreement are referenced or included in the construction contract documents for each work package.	No
<b>Participants' Commitments: Noise and Vibration</b>			
p. 19, Bullet 1	Construction equipment used by contractors shall function as designed and shall conform to applicable noise emission standards.	This commitment has been incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 19, Bullet 2	Generally adhere to project work hour restrictions (7 a.m. to 7 p.m.) within 500 feet of residences, hospitals, schools, churches, and libraries. Work hours may need to be extended from time to time in order to expeditiously restore traffic flow or public access.	This commitment has been incorporated into the construction contract documents for each of the work packages, as applicable.	No

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p. 20, Bullet 3	Restrict access to construction areas so that the public could not be in close proximity to loud equipment or blasting.	This commitment has been incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 4	House project operating equipment (e.g. pump stations) in structures designed to minimize radiated noise outside the structure, and will meet local noise ordinance requirements.	This commitment has been incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, ¶1	By following existing standards, restricting work hours and access to construction areas, and insulating new noise within structures, noise effects will be minimized by maintaining acceptable noise levels and limiting the number of people exposed to increased noise levels.	As described in the previous four responses, these commitments have been incorporated into the construction contract documents to minimize potential construction and operation impacts due to noise and vibration. SDS inspectors regularly visit all active sites.	No
<b>Participants' Commitments: Visual Resources</b>			
p. 20, Bullet 1	Vegetate earthen dam faces with native herbaceous plants to match the adjacent undisturbed prairie plant communities.	This requirement is not applicable yet as the design of the Upper Williams Creek and Williams Creek Reservoirs did not begin during this reporting period.	No
p. 20, Bullet 2	Revegetate and/or landscape with plants, all disturbances associated with the construction of all facilities.	This commitment has been incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 3	Restore as many existing grades as practicable following pipeline excavations.	This commitment has been incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 4	Enclose pump stations and well equipment in structures matching the architectural characteristics of the surrounding structures.	Colorado Springs Utilities has coordinated with the Bureau of Reclamation and Pueblo County representatives regarding the proposed architecture for the Juniper Pump Station located at Pueblo Reservoir. On September 20, 2012 and November 1, 2012, Colorado Springs Utilities met with representatives of Pueblo County, Colorado State Parks and the Bureau of Reclamation to present the final architectural and landscape plans for the Juniper Pump Station. On November 8, 2012, Colorado Springs Utilities met with Pueblo County to present the final architectural design of the Juniper Pump Station. On November 13, 2012 the Pueblo County Board of County Commissioners(BOCC) passed and adopted Pueblo County Resolution No. 12-270 appointing Pueblo County's Director of Planning and Development, Joan Armstrong, to be Pueblo County's representative to participate in the final selection of the architecture and landscaping for the Juniper Pump Station along with representatives of Colorado State Parks and the Bureau of Reclamation. The resolution also approved the final stage of the design consisting principally of the exterior treatments and architecture of the proposed pump station, including the colors and building materials to be used, and the landscaping immediately around the proposed structure.	No

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p. 20, Bullet 5	Construct powerlines with non-specular (not shiny) wire, non-reflective and opaque insulators, and light-colored, non-reflective finished poles.	This commitment has been incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 6	Reclaim construction access roads and staging areas by restoring existing grade and revegetating the area of disturbance.	This commitment has been incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 7	Apply water with standard construction practices to control airborne fugitive dust within construction areas.	This commitment has been incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 8	Install baffles on construction lighting fixtures to direct light onto the construction activity only in locations where safety is a concern, scenic quality will be affected, or near occupied homes and businesses.	This commitment has been incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, ¶1	Restoring existing grades, revegetating disturbed areas, using architectural styles consistent with the area, and designing powerlines to have low visibility will minimize the visual contrast between the surrounding areas and will reduce the visibility of disturbance or new structures from observation points. Reducing airborne fugitive dust and construction lighting will reduce the area affected during construction.	As described in the previous eight responses, these requirements have been incorporated into the designs and construction contract documents for each work package to minimize potential impacts to visual resources. For this item and the previous eight, no concerns have been identified to date.	No
<b>Participants' Commitments: Traffic</b>			
p. 20, Bullet 1	Use trenchless construction to the extent practicable when construction features cross railroad lines, state highways, county roadways in densely populated areas, and major city roadways in densely populated areas.	This commitment has been incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 2	Prepare traffic control plans for approval by state and local traffic authorities and followed by contractors during construction.	This commitment has been incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 3	Construct traffic signage, signals, acceleration, and deceleration lanes as directed by state and local traffic authorities for access to reservoir sites, treatment plants, and pump stations.	This commitment has been incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 4	Construct improvements to existing access roads or construction of temporary alternate access roads to reservoir sites, treatment plants, and pump stations as directed by state and local traffic officials.	This commitment has been incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 5	Modify or reconstruct bridges when the load limits are not adequate for construction of the SDS Project and other access routes are not reasonable.	This commitment has been incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, ¶1	When implemented, these recommendations will mitigate potential adverse effects on traffic by minimizing delays and promoting traffic safety.	As described in the previous five responses, these commitments have been incorporated into the construction contract documents for each work package to minimize potential construction and operations impacts to traffic flow patterns. For this item and the previous five, no concerns have been identified to date.	No
<b>Participants' Commitments: Soils</b>			
p. 21, Bullet 1	Minimize the area of disturbance to defined construction limits and limit the time bare soil is exposed.	This commitment has been incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 2	Contain soils within the construction area through temporary sediment control measures such as silt fences, sediment logs, trenches, and sediment traps.	This commitment has been incorporated into the construction contract documents for each of the work packages, as applicable.	No

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p. 21, Bullet 3	Remove woody vegetation prior to topsoil salvage and, to the extent possible, salvage topsoil within tree stump roots.	This commitment has been incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 4	Use topsoil salvage methods including windrowing topsoil at the limits of construction and pulling the soil back on slopes during reclamation.	This commitment has been incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 5	Apply topsoil, soil amendments, fertilizers, and mulches as appropriate, and seed selectively during favorable plant establishment climate conditions to match site conditions and revegetation goals.	This commitment has been incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 6	To the extent practicable, avoid irrigated lands during final design.	This commitment has been incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 7	To the extent practicable, allow continued use of lands crossed by project facilities after construction.	This commitment has been incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 8	Where the proposed pipeline crosses prime farmland soils, develop a soils handling plan that separates the top 6 inches and the soils between 6 and 36 inches for subsequent reclamation.	This commitment has been incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, ¶1	Proposed mitigation measures will reduce short-term and long-term losses of soil and soil productivity. Redistribution of topsoil to soil-deficient areas will increase soil productivity in those areas. Topsoil, soil amendments, fertilizers, and mulches will increase productivity and help establish cultivated vegetation and crops. A soils handling plan for prime farmland soils will ensure high quality topsoil is preserved and distributed properly.	As described in the previous eight responses, these commitments have been incorporated into the construction contract documents for each work package to minimize potential soil erosion and loss during construction. For this item and the previous eight, no concerns have been identified to date.	No
<b>Participants' Commitments: Air Quality</b>			
p. 21, Bullet 1	Develop and implement standard control practices, such as watering, to minimize particulate and dust emissions from construction work sites as specified in the fugitive dust control plan.	This commitment has been incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 2	Ensure construction equipment (especially diesel equipment) meets opacity standards for operating emissions.	This commitment has been incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 3	Promptly revegetate disturbed areas.	The SDS Participants are incorporating this commitment into the construction contract documents for each of the work packages, as applicable. For Pueblo County work packages, the revegetation contractor coordinates with the construction contractor to begin revegetation efforts following substantial completion of each construction project. For El Paso County Work Packages, each construction contractor has a revegetation sub-contractor performing the work. Revegetation efforts have begun or been completed on the PDC1A, PDC1B, S1, S2, S3, S4A West, S4A East, S4B/N1A, N1B, N1C, N2A, FW1A, FW1B, and FW3 work packages.	No
p. 21, ¶1	The proposed mitigation measures will reduce both short-term and long-term effects on air quality by following standards on construction equipment and minimizing fugitive dust.	As described in the previous three responses, these commitments have been incorporated into the construction contract documents for each work package to minimize potential air quality impacts during construction. For this item and the previous three, no concerns have been identified to date.	No

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Reporting Requirements		CY2014 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
<b>Participants' Commitments: Hazardous Materials</b>			
p. 22, Bullet 1	Remove solid waste and properly dispose of at a permitted solid waste disposal facility prior to construction of project facilities at the site.	This commitment has been incorporated into the construction contract documents for each of the work packages, as applicable. Contractors are meeting all solid waste and disposal requirements.	No
p. 22, Bullet 2	Inspect the ground surface beneath the solid waste for evidence of hazardous material or petroleum product spills such as soil staining and unusual odors or colors.	This commitment has been incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 22, Bullet 3	If evidence of a spill or spills is noted, delineate the extent of the spill by laboratory analysis and excavate any contaminated soils and properly dispose of at a permitted waste disposal facility.	This commitment has been incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 22, Bullet 4	If soil and/or ground water contamination is encountered during construction of project facilities, implement mitigation procedures to minimize the risk to construction workers and to the future operation of the project.	This commitment has been incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 22, ¶1	The proposed mitigation measures will identify areas of potential contamination from hazardous materials and will remediate the soil and ground water if any contamination was identified.	As described in the previous four responses, these commitments have been incorporated into the construction contract documents for each work package to minimize potential for a hazardous materials spill. For this item and the previous four, no concerns have been identified to date.	No
<b>El Paso County - Location Approvals</b>			
Final Resolution, Annual Report Requirement	This approval of location shall be subject to annual reporting by the applicant on January 31 annually and review by Development Services Department to determine compliance with all applicable requirements and standards of the El Paso County regulations and the conditions and safeguards imposed upon the approval of location by the Planning Commission. Upon completion of each periodic review, the Development Services Department shall forward its report and any recommendations to the Planning Commission, Board of County Commissioners and the holder of the approval of location. The annual report shall include:	This Permit Compliance Annual Report is being prepared to demonstrate the progress successfully implementing the commitments as prescribed in the ROD and the annual reporting requirements found in the other programmatic permits and approvals including: the Pueblo County 1041 Permit, the El Paso County Approval of Locations, El Paso County 1041 Permits, the CDPHE 401 Water Quality Certification and the Fountain Creek Watershed, Flood Control and Greenway District approval.	No
Annual Report Requirement, Sub-Bullet a	Evaluation of compliance with El Paso County conditions of approval	Compliance with the conditions of approval is being documented through the Site Development Plan processes for each work package. The Site Development Plan was approved for finished water pipeline segment FW1A on September 8, 2010, for the S4B/N1A pipeline on April 27, 2011, for the N1B pipeline on July 18, 2011, the Williams Creek Pump Station on July 18, 2011, the FW1B pipeline on August 17, 2011, the Bradley Pump Station Power Supply on October 11, 2012, the S4A East and West Pipeline on October 18, 2012, the N1C pipeline on February 28, 2013, the Williams Creek Pump Station Power Supply on March 1, 2013, the N2A pipeline on June 5, 2013, and the Bradley Pump Station on July 16, 2013.	No

**ATTACHMENT 1**

## Annual Implementation Progress Matrix

Reporting Requirements		CY2014 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
Annual Report Requirement, Sub-Bullet b	Integrated Adaptive Management Plan	The Integrated Adaptive Management Plan (IAMP) has been completed and was submitted to the Bureau of Reclamation on March 18, 2011. The requirements of the IAMP will be coordinated with the development of the Phase II EMS that Colorado Springs Utilities will begin developing in the next reporting period. The requirements of the IAMP are not effective until SDS is operational.	No
Annual Report Requirement, Sub-Bullet c	Dust control report	The construction contract documents require the contractor to obtain an Air Pollution Emissions Notice (APEN) through the Colorado Department of Public Health & Environment and implement dust control measures as necessary to comply with the APEN requirements. Dust is monitored during routine inspections and only exceptions are reported to the County.	No
Annual Report Requirement, Sub-Bullet d	Weed control report	Noxious weed surveys are being completed as part of the final design and Site Development Plan processes. A noxious weed management plan is being provided to El Paso County as part of the Site Development Plan. The noxious weed management plan requirements are incorporated into the construction contract documents for each of the work packages.	No
Annual Report Requirement, Sub-Bullet e	Wildlife management report (any occurrences or actions regarding compliance with State or federal requirements)	Wildlife surveys are being completed as part of the Site Development Plan process. Habitat and species have been identified and proposed mitigation measures are identified in the wildlife survey report as necessary. Required mitigation measures will be initiated prior to construction. The construction contract documents provide direction to the contractor regarding how to handle sensitive wildlife species habitat that could be encountered during construction.	No
Annual Report Requirement, Sub-Bullet f	Cultural resources report (any occurrences or actions regarding compliance with State or federal requirements)	Class III cultural resource surveys have been completed for the NEPA corridor. In addition, a process has been initiated with Reclamation and SHPO to address cultural resource impacts as a result of construction of SDS in compliance with the Programmatic Agreement. Colorado Springs Utilities prepared a Treatment Plan which addresses how mitigation will be determined for each eligible or potentially eligible cultural resource site. The Treatment Plan was executed in June 2011.	No
Annual Report Requirement, Sub-Bullet g	Groundwater and surface water monitoring report addressing water quality and quantity	A Joint Funding Agreement was executed with the U.S. Geological Survey (USGS) on the water quality monitoring program. Water quality monitoring began in January, 2011. See Attachment 3 for the water quality monitoring data.	Attachment 3 - Water Quality Monitoring Data



**ATTACHMENT 1**

## Annual Implementation Progress Matrix

Reporting Requirements		CY2014 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
Annual Report Requirement, Sub-Bullet h	Vegetation monitoring report (status of revegetation efforts)	Revegetation efforts have begun or have concluded on the S4A West, S4A East, S4B/N1A, N1B, N1C, FW1A, and FW1B Pipeline work packages. A third party contractor has conducted surveys and provides reports on the revegetation coverage and diversity.	No
Annual Report Requirement, Sub-Bullet i	Complaint log and how the issues were resolved	Colorado Springs Utilities is tracking complaints received through a complaints log which includes a description of the follow-up activities that occurred to address or resolve the complaint. See Attachment 4 for the Complaint Log.	Attachment 4 - Complaint Log
Annual Report Requirement, Sub-Bullet j	Emergency response log and how the issues were resolved	Colorado Springs Utilities is tracking emergency response actions through an emergency response log which includes a description of the actions taken to resolve the issue. See Attachment 5 for the Emergency Response Log.	Attachment 5 - Emergency Response Log
Annual Report Requirement, Sub-Bullet k	Log of when work occurred during non-typical work hours (work outside the hours of 7:00 am and 6:00 pm) and rationale by which the work was deemed necessary	The typical work hours are being incorporated into the construction contract documents for each of the work packages, as applicable. The contractor receives approval to work during non-typical work hours from the El Paso County Department of Transportation prior to the activity. Colorado Springs Utilities is tracking work which occurs during non-typical work hours through a log which includes a rationale by which the work was deemed necessary. See Attachment 6 for the Log of Work Occurring During Non-Typical Work Hours.	Attachment 6 - Log of Work Occurring During Non-Typical Work Hours
<b>El Paso County - 1041 Permits</b>			
Final Resolution, Annual Report Requirement	This approval of location shall be subject to annual reporting by the applicant on January 31 annually and review by Development Services Department to determine compliance with all applicable requirements and standards of the El Paso County regulations and the conditions and safeguards imposed upon the approval of location by the Planning Commission. Upon completion of each periodic review, the Development Services Department shall forward its report and any recommendations to the Planning Commission, Board of County Commissioners and the holder of the approval of location. The annual report shall include:	This Permit Compliance Annual Report is being prepared to demonstrate the progress successfully implementing the commitments as prescribed in the ROD and the annual reporting requirements found in the other programmatic permits and approvals including: the Pueblo County 1041 Permit, the El Paso County Approval of Locations, El Paso County 1041 Permits, the CDPHE 401 Water Quality Certification and the Fountain Creek Watershed, Flood Control and Greenway District approval.	No
Annual Report Requirement, Sub-Bullet a	Evaluation of compliance with El Paso County permit conditions	Compliance with the permit conditions is being documented through the Site Development Plan processes for each work package that received a 1041 Permit. The Site Development Plan was approved for finished water pipeline segment FW1C on January 24, 2014, for finished water pipeline segment FW3 on January 29, 2014, and for the S4A Central pipeline on February 18, 2014.	No



**ATTACHMENT 1**

## Annual Implementation Progress Matrix

Reporting Requirements		CY2014 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
Annual Report Requirement, Sub-Bullet b	State Inspection Reports	There were no state inspections at FW1C, FW3, or S4A Central during the reporting period.	No
Annual Report Requirement, Sub-Bullet c	Federal Inspection Reports	There were no federal inspections at FW1C, FW3, or S4A Central during the reporting period.	No
Annual Report Requirement, Sub-Bullet d	Dust control report	The construction contract documents require the contractor to obtain an Air Pollution Emissions Notice (APEN) through the Colorado Department of Public Health & Environment and implement dust control measures as necessary to comply with the APEN requirements. Dust is monitored during routine inspections and only exceptions are reported to the County.	No
Annual Report Requirement, Sub-Bullet e	Weed control report	Noxious weed surveys are being completed as part of the final design and Site Development Plan processes. A noxious weed management plan is being provided to El Paso County as part of the Site Development Plan. The noxious weed management plan requirements are incorporated into the construction contract documents for each of the work packages.	No
Annual Report Requirement, Sub-Bullet f	Wildlife management report (any occurrences or actions regarding compliance with State or federal requirements)	Wildlife surveys are being completed as part of the Site Development Plan process. Habitat and species have been identified and proposed mitigation measures are identified in the wildlife survey report as necessary. Required mitigation measures will be initiated prior to construction. The construction contract documents provide direction to the contractor regarding how to handle sensitive wildlife species habitat that could be encountered during construction.	No
Annual Report Requirement, Sub-Bullet g	Cultural resources report (any occurrences or actions regarding compliance with State or federal requirements)	Class III cultural resource surveys have been completed for the NEPA corridor. In addition, a process has been initiated with Reclamation and SHPO to address cultural resource impacts as a result of construction of SDS in compliance with the Programmatic Agreement. Colorado Springs Utilities prepared a Treatment Plan which addresses how mitigation will be determined for each eligible or potentially eligible cultural resource site. The Treatment Plan was executed in June 2011.	No

**ATTACHMENT 1**

## Annual Implementation Progress Matrix

Reporting Requirements		CY2014 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
Annual Report Requirement, Sub-Bullet h	Groundwater and surface water monitoring report addressing water quality and quantity	A Joint Funding Agreement was executed with the U.S. Geological Survey (USGS) on the water quality monitoring program. Water quality monitoring began in January, 2011. See Attachment 3 for the water quality monitoring data.	Attachment 3 - Water Quality Monitoring Data
Annual Report Requirement, Sub-Bullet i	Vegetation monitoring report (status of revegetation efforts)	Revegetation efforts have begun for FW3 work packages. A contractor will conduct surveys and provide reports in the coming year on the revegetation coverage and diversity.	No
Annual Report Requirement, Sub-Bullet j	Complaint log and how the issues were resolved	Colorado Springs Utilities is tracking complaints received through a complaints log which includes a description of the follow-up activities that occurred to address or resolve the complaint. See Attachment 4 for the Complaint Log.	Attachment 4 - Complaint Log
Annual Report Requirement, Sub-Bullet k	Emergency response log and how the issues were resolved	Colorado Springs Utilities is tracking emergency response actions through an emergency response log which includes a description of the actions taken to resolve the issue. See Attachment 5 for the Emergency Response Log.	Attachment 5 - Emergency Response Log
Annual Report Requirement, Sub-Bullet l	Log of when work occurred during non-typical work hours (work outside the hours of 7:00 am and 6:00 pm) and rationale by which the work was deemed necessary	The typical work hours are being incorporated into the construction contract documents for each of the work packages, as applicable. The contractor receives approval to work during non-typical work hours from the El Paso County Department of Transportation prior to the activity. Colorado Springs Utilities is tracking work which occurs during non-typical work hours through a log which includes a rationale by which the work was deemed necessary. See Attachment 6 for the Log of Work Occurring During Non-Typical Work Hours.	Attachment 6 - Log of Work Occurring During Non-Typical Work Hours

**ATTACHMENT 1**

## Annual Implementation Progress Matrix

Reporting Requirements		CY2014 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
<b>Pueblo County - 1041 permit</b>			
7. Expenditures for Wastewater System Improvements, p. 12	In order to continue its efforts to protect against future spills to Fountain Creek, to increase its opportunities for reuse, and to mitigate possible water quality impacts by the SDS Project to Fountain Creek, Colorado Springs Utilities shall commit to invest an additional \$75,000,000 in its wastewater system. Expenditures will be made as part of the wastewater collection system rehabilitation programs or wastewater reuse systems between January 1, 2009 and December 31, 2024 as required. These expenditures shall be for projects not currently required by other regulatory permits, agency enforcement or court orders, consent agreements, or governmental regulations existing as of January 30, 2009. These expenditures will include the Local Collector Evaluation and Rehabilitation Program (LCERP) for the improvement and fortification of wastewater lines which could adversely affect Fountain Creek or its tributaries. These expenditures are subject to annual appropriation by the Colorado Springs City Council. Beginning in 2010, by January 31 of each year, Colorado Springs Utilities shall provide an annual report to Pueblo County describing such expenditures for the prior year.	Colorado Springs Utilities submitted a wastewater expenditures report documenting 2009 expenditures to Pueblo County on January 29, 2010. Colorado Springs Utilities prepared a report documenting 2010 expenditures which was submitted to Pueblo County on January 31, 2011. The report for 2011 was submitted to Pueblo County on January 26, 2012. The report for 2012 was submitted to Pueblo County on January 31, 2013. The report for 2013 was submitted to Pueblo County on January 31, 2014. The report for 2014 is being prepared and will be submitted to Pueblo County on or about January 30, 2015.	Attachment 7 - Expenditures for Wastewater System Improvements Annual Report for 2014
25. Compliance Monitoring and Reporting, p. 18	Applicant shall monitor and periodically report to Pueblo County on its compliance with this Permit. During project construction in Pueblo County, Applicant will submit a quarterly report to Pueblo County summarizing the activities during that period, forecasting activities scheduled for the upcoming period, and addressing compliance with the terms and conditions of the Permit. After commencing deliveries of water through the SDS pipeline, Applicant shall submit annual reports to Pueblo County summarizing its activities related to the SDS Project, the Permit, and addressing compliance with the terms and conditions of the Permit. Pueblo County may, at its discretion, hold public reviews of the reports and Permit compliance, including hearings in accordance with its regulations. <i>See Mitigation Appendix ENF-1.</i>	Colorado Springs Utilities has prepared and submitted a quarterly report for 4th Quarter 2013, 1st Quarter 2014, 2nd Quarter 2014, and 3rd Quarter 2014 during this reporting period. The report for 4th Quarter 2014 is being prepared and will be submitted to Pueblo County by January 31, 2015.	No

**ATTACHMENT 1**

## Annual Implementation Progress Matrix

Reporting Requirements		CY2014 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
Mitigation Appendix ENF-1, Project Detail, Item 1, p. 22 of 28	<p>1. Submit a quarterly report during project construction in Pueblo County that will provide a summary of activities related to the Conditions of the permit. The report will summarize the activities occurring in the reporting period, and a forecast of activities planned in the upcoming period. Contents of the report will include (as applicable):</p> <ol style="list-style-type: none"> <li>Safety incident log.</li> <li>Citizen call log.</li> <li>Description of mitigation and restoration activities (i.e., quantity and location of repaired road surface, reseeding, etc.).</li> <li>List of non-compliance issues by contractors (silt releases, work hour infractions, fines and penalties).</li> <li>Sustainable construction practices employed.</li> <li>Schedule and key milestones met and forecast.</li> <li>Location and extent of excavations.</li> <li>Instances of work outside normal work hours, except maintenance activities.</li> <li>Status of site maintenance, security and access control to properties.</li> <li>Location and extent of dewatering activities.</li> <li>Status of other required permits, including compliance with the programmatic agreement to protect cultural resources.</li> <li>Dust monitoring summary.</li> <li>Status of drainage and erosion control measures.</li> <li>Status of plant and wildlife protection requirements.</li> <li>Status of measures to protect surface and groundwater flows.</li> <li>Status of livestock protection measures.</li> <li>Status of Clear Spring Ranch project.</li> <li>Status of pump station architectural review.</li> <li>Status of land acquisition.</li> <li>Status of compliance with requirements concerning Pueblo County Roads.</li> <li>Status of dredging at the levees on Fountain Creek in Pueblo.</li> <li>Status of reclamation and bonding for disturbed areas.</li> <li>Status of the written MOU for construction and use of the North River Outlet Works.</li> <li>Acceptance of the design of structures at Lake Pueblo Dam by the BOR.</li> <li>Status of conservation strategies, local reuse, stormwater management, drainage regulations and enforcement.</li> <li>Status of stormwater and wastewater system improvements per permit commitments.</li> <li>aa. Status of NEPA, ROD, contract negotiations with BOR and notice of NEPA-required mitigation and any project changes resulting from contract negotiations.</li> <li>bb. Status of payments in lieu of property taxes.</li> <li>cc. Copies of the annual reports on the SDS Project submitted to Reclamation.</li> </ol>	Colorado Springs Utilities has prepared and submitted a quarterly report for 4th Quarter 2013, 1st Quarter 2014, 2nd Quarter 2014, and 3rd Quarter 2014 during this reporting period. The report for 4th Quarter 2014 is being prepared and will be submitted to Pueblo County by January 31, 2015. Copies of the quarterly reports are being provided to the BOR.	No

**ATTACHMENT 1**

## Annual Implementation Progress Matrix

Reporting Requirements		CY2014 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
Mitigation Appendix ENF-1, Project Detail, Item 2, p. 23 of 28	<p>2. Submit an annual report to Pueblo County that will provide a summary of activities related to the SDS Project and the Conditions of the Permit. These reports will be due annually on or before January 31, beginning the year following commencement of water deliveries through the SDS pipeline. The reports shall include a signed certification of compliance with the Permit. Contents of the report will include, but will not be necessarily limited to:</p> <ul style="list-style-type: none"> <li>a. Summary of storage, diversion, delivery of water in Pueblo County.</li> <li>b. Summary of Participants' return flows to Fountain Creek including storage and releases of such return flows (maximum daily flows, average annual and monthly flows and amounts).</li> <li>c. Summaries of exchanges by Participants between Pueblo Reservoir and the Fountain Creek confluence (monthly and annual rates of flow and quantities).</li> <li>d. Use of any new water rights to be delivered or stored through SDS (amount, time, source).</li> <li>e. Water quality monitoring.</li> <li>f. Geomorphology monitoring.</li> <li>g. Status of adaptive management plans on Fountain Creek.</li> <li>h. Status of payments into the Fountain Creek monetary mitigation fund.</li> <li>i. Status of expenditures for wastewater system improvements for Participants (and third party users in the Fountain Creek basin) per Permit Conditions.</li> <li>j. Reports on the operation of the Pueblo Flow Management Program and the Low Flow Program (rates, and quantities, and times of foregone exchanges, releases, and reception documentation).</li> <li>k. Status of lake level management cooperative efforts with other entities at Pueblo Reservoir.</li> <li>l. Status of conservation and local reuse.</li> <li>m. Payments to Pueblo County in lieu of property taxes.</li> <li>n. Copies of the annual reports on the SDS Project submitted to Reclamation.</li> </ul>	The annual report requirement was not applicable during this reporting period because SDS is not operational.	No
<b>CDPHE - 401 Water Quality Certification</b>			
Certification Statement, Bullet 4, p. 6	All collected raw data and annual reports developed as a requirement of other agency conditions will be submitted to the Division at the same time they are submitted to the requiring regulatory agency. Data and reports will be submitted directly to the Environmental Data Unit in an electronic data format agreed to by the Division.	The SDS Permit Compliance Annual Report for Calendar Year 2014 has been prepared to address the annual reporting requirements for all of the major programmatic permits. Colorado Springs Utilities will post this annual report to the SDS website (sdswater.org) where it can be accessed by all interested regulatory agencies or members of the public. Pertinent raw data and reports are being submitted as part of this annual report, of which CDPHE is a recipient.	No

**ATTACHMENT 1**

## Annual Implementation Progress Matrix

Reporting Requirements		CY2014 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
<b>Fountain Creek WFCGD - Resolution 2010-01</b>			
Technical Advisory Committee Condition 2, p. 3 (Also Citizen Advisory Committee Condition 2)	<p>The Integrated Adaptive Management Plan (IAMP) shall be submitted to the District for review, and periodic reports on water quality and quantity shall be provided to the District.</p> <p>The Integrated Adaptive Management Plan (IAMP) will include how mitigation will be performed in case there are problems that were not anticipated during the project. This will include means and methods to address impacts from the project and specific triggers to initiate the process. Once the IAMP is finalized there will be an opportunity for comment.</p>	<p>The IAMP has been completed and was submitted to the Bureau of Reclamation on March 18, 2011. The IAMP has been provided to the District.</p>	No

# Monthly Average Flow Data from USGS Gauge Station No. 07106500 Fountain Creek at Pueblo

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The USGS provides data based on a water year (October through September).

**ATTACHMENT 2**  
**USGS Gauge Station No: 07106500**  
FOUNTAIN CREEK AT PUEBLO, CO  
Pueblo County, Colorado  
Hydrologic Unit Code 11020003  
Latitude 38°17'16", Longitude 104°36'02" NAD27  
Drainage area 925 square miles  
Gage datum 4,705 feet above sea level NGVD29

00060, Discharge, cubic feet per second,																
YEAR	Monthly mean in cfs (Calculation Period: 2013-10-01 -> 2014-09-30)												Annual Average Flow	Long-Term Average Annual Simulated Streamflow		
	Period-of-record for statistical calculation restricted by user															
	2013			2014												
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep				
Mean of Monthly Discharge	175	138	99	81.7	115	107	85.6	113	80.5	328	207	60.8	132.6	253.0		

- Notes:
- 1. No incomplete data has been used for the statistical calculations shown in the table.
  - 2. Data in this table is from USGS National Water Information System: Web Interface ([waterdata.usgs.gov/nwis/monthly](http://waterdata.usgs.gov/nwis/monthly)).
  - 3. The annual average is computed from the monthly mean data published by the U.S. Geological Survey.
  - 4. The long-term average annual simulated streamflow for the preferred alternative (Alt 2) was taken from Table 33 of the FEIS.



# Water Quality Monitoring Data

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A Joint Funding Agreement was executed with the USGS to begin the water quality monitoring program in January, 2011. Data is provisional until it goes through the USGS quality assurance process. Cells shaded in blue represent data that exceeds CDPHE Reg. 32 Water Quality for Middle Arkansas River Basin segment 3, Lower Arkansas River Basin segment 1a, and Fountain Creek Basin segments 1a, 2a, 2b, and 6 standards.

Location	Date	Flow	Note	Barometric pressure	Dissolved oxygen	pH	Specific conductance	Temperature	Turbidity	Escherichia coli	Note	Total coliform	Note	Ammonia	Note	Selenium	Note
Standards (if applicable)										126				See Note		17.4	
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20131021	141		648	9.4	8.4	542	12.8	16	24		1700		0.02		9.8	
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20131113	333		649	10.6	8.4	481	9.1	4.7	18		650		0.02		7.3	
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20131204	55		639	11.9	8.7	639	4.7	0.2	6		190		0.02		15.8	
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20140113	58		646	13.5	8.8	639	3.3	2.1	3		100		< 0.02		20.3	
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20140219	67		638	13.1	8.8	621	8	4.1	4		47		< 0.02		17.7	
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20140303	70		644	13.1	8.7	604	2.9	7.6	1		110		0.03		15.7	
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20140401	159		638	11.8	8.7	546	8.3	3.3	2		100		< 0.02		11.9	
Selenium Standard Change *Updated Rule 20140430																	17.1
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20140512	364		649	11.1	8.6	472	9.4	0.7	18		2400		< 0.02		8.5	
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20140603	4860		642	9.3	8.3	407	13.4	13	11		1400		0.099	*12	5	
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20140702	1360		651	8.7	8.4	271	16.5	15	44		2400		< 0.02		2.6	
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20140812	867		649	8.3	8.2	322	19.6	14	26		> 2400		0.02		4.5	
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20140902	343		645	8.6	8.7	348	21.7	5.5	14		> 2400		0.05	*13	4.7	
Standards (if applicable)										126				See Note		4.6	
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20131022	25.0		614	10.9	8.1	288	6.2	45	130		520		< 0.02		0.2	
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20131112	21.0		621	10.5	8.2	339	4.7	63	54		2400		0.02		0.2	
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20131203	15		599	10.4	8.1	351	4.2	0.3	66		170		< 0.02		0.17	
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20140109	11		604	10.9	8.2	360	2.2	0.2	130		390		< 0.02		0.2	
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20140211	5.9		609	10.7	8.2	467	2.1	8.6	44		170		< 0.02		0.24	*30
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20140304	8.1		606	10.6	8.4	437	4.5	7.7	170		960		E 0.01		0.2	
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20140402	6.9		602	10.1	8.3	445	5.6	2.6	38		140		< 0.02		0.2	
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20140508	10		605	9.1	8.3	393	9.4	57	770		2400		< 0.02		0.2	
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20140605	9.9		611	8.1	8.7	329	13.9	60	270		10000		< 0.02		0.16	
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20140710	8.5		611	7.7	8.3	430	16	22	1000		8700		< 0.02		0.16	
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20140811	20		618	8.5	8.2	298	12.1	180	1700		24000		0.07		0.16	
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20140903	9.9		608	7.5	8.3	444	17.3	15		*2		*7	< 0.02		0.17	

Location	Date	Flow	Note	Barometric pressure	Dissolved oxygen	pH	Specific conductance	Temperature	Turbidity	Escherichia coli	Note	Total coliform	Note	Ammonia	Note	Selenium	Note
Standards (if applicable)										126				See Note		4.6	
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20131017	46		613	9.4	8.7	600	12.5	9.3	240		2000		0.10		1.7	
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20131112	31		625	11	8.6	642	7.1	9.3	96		1100		0.18		2.2	
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20131203	35		602	11.3	8.6	768	5.7	33	140		1600		0.08		3.3	
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20140109	25		609	10.5	8.2	910	2.1	24	52		980		0.72	*14	3.9	
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20140211	29		613	11.2	8.3	939	2.9	13	690		1100		E 0.08		3.5	
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20140304		*1	610	10.4	8.4	725	5.5	23	100		770		0.28		3.3	
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20140402	58		606	9.6	8.2	606	7.8	170	93		210		E 1.52	*15	2.2	
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20140508	44		609	8.3	8.3	513	13.9	28	31		1300		0.19		1.7	
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20140605	62		614	7.5	8.8	482	19.2	150	490		14000		0.15		1.8	
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20140708	18		620	7.8	8.4	696	17.4	9.5	380		24000		0.05		3.3	
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20140813	39		618	7.2	8.4	629	22.6	54	930		24000		0.03		2.2	
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20140903	42		611	6.9	8.5	623	25.1	28		*3		*8	0.2		2.2	
Standards (if applicable)										126				See Note		8	
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20131023	61		618	10.2	8.2	573	6.7	15	200		E 2400		0.02		1.7	
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20131114	69		615	9.9	8.5	602	8.2	23	100		1100		0.03		1.9	
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20131203	54		602	9.9	8.4	682	7.6	25	81		1400		0.06		2.3	
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20140108	49		614	10.7	8.3	788	3	45	39		730		0.39		2.8	
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20140212	50		613	10.2	8.1	777	5.6	20	60		380		E 0.1		2.7	
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20140304	46		610	9.5	8.3	672	8.3	24	160		550		0.37		2.3	
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20140402	53		606	8.4	8.2	607	12.5	76	260		870		1.08	*16	1.9	
Selenium Standard Change *Updated Rule 20140430																	4.8
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20140509	53		613	9.3	8.1	596	8.3	32	690		2400		0.06		2.2	
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20140605	73		615	7	8.7	504	21.8	67	210		12000		0.09		1.5	
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20140708	28		619	7.7	8.2	754	17.5	9.3	440		13000		0.03		3	
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20140813	72		619	7.1	8.3	556	22.8	54	460		12000		0.03		1.8	
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20140904	49		616	7.3	8.3	656	21.7	43	860		24000		0.04		2.3	
Standards (if applicable)										126				See Note		8	
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20131023	168		620	9.2	8.2	671	13.1	16	E 870		> 2400		0.04		2.0	
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20131114	84		617	9.6	8.3	686	12.1	3.1	120		1700		0.04		2.2	
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20131210	68		616	10.3	8.1	757	7.5	4.6	260		2000		0.06		2.2	
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20140108	51		617	10.4	8.3	808	8.4	8.9	81		1300		0.22		2.6	
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20140212	108		618	9.9	8	797	8.9	3.9	160		2400		E 0.33	*17	2.7	*31
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20140305	99		619	9.6	8.1	730	12	90	37		980		0.41		2.5	
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20140404	98		E 618	9.8	8.1	718	9	30	120		2400		0.8	*18	2.1	
Selenium Standard Change *Updated Rule 20140430																	4.8
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20140513	79		625	9.2	8.2	703	11.6	8.5	210		2400		0.09		1.9	
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20140609	115		619	8	8.3	545	17	83	210		2400		0.05		1.9	
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20140709	89		619	7.5	8	653	20.8	65	960		24000		0.05		2	
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20140814	98		618	7.5	8.2	663	21.2	14	390		5800		0.05		2.3	
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20140903	100		614	7.1	8.2	693	23.8	16		*4		*9	0.05		2.4	

Location	Date	Flow	Note	Barometric pressure	Dissolved oxygen	pH	Specific conductance	Temperature	Turbidity	Escherichia coli	Note	Total coliform	Note	Ammonia	Note	Selenium	Note
Standards (if applicable)										126				See Note			8
FOUNTAIN CREEK AT SECURITY, CO	20131023	166		624	8.4	8.4	740	15.6	25	E 160		> 2400		0.23		2.6	
FOUNTAIN CREEK AT SECURITY, CO	20131114	89		620	9.0	8.4	758	12.4	13	65		2400		0.31		2.7	
FOUNTAIN CREEK AT SECURITY, CO	20131210	54		620	10.8	8.3	863	2.9	15	93		2400		0.54		2.9	
FOUNTAIN CREEK AT SECURITY, CO	20140108	65		620	10	8.4	916	6.1	16	43		690		0.7		3.4	
FOUNTAIN CREEK AT SECURITY, CO	20140218	81		618	10	8.1	821	6.2	26	96		1000		E 1.24	*19	3.1	
FOUNTAIN CREEK AT SECURITY, CO	20140305	91		623	8.9	8.4	820	11.9	20	12		290		0.62		3.2	
FOUNTAIN CREEK AT SECURITY, CO	20140404	107		623	8.8	8.1	811	9.8	73	52		2400		E 1.21	*20	2.9	
Selenium Standard Change *Updated Rule 20140430																	4.8
FOUNTAIN CREEK AT SECURITY, CO	20140513	88		630	8.8	8.5	792	13.1	24	78		1600		0.28		2.5	
FOUNTAIN CREEK AT SECURITY, CO	20140605	69		621	6.6	8.8	673	25.3	38	74		7700		0.21		2.5	
FOUNTAIN CREEK AT SECURITY, CO	20140709	76		624	6.8	8.3	735	24.8	180	1300		20000		0.14		2.6	
FOUNTAIN CREEK AT SECURITY, CO	20140818	112		623	7.2	8.3	705	21.9	27	230		12000		0.17		2.5	
FOUNTAIN CREEK AT SECURITY, CO	20140904	82		622	7.4	8.4	806	21.8	27	260		7300		0.25		3.2	
Standards (if applicable)										126				See Note			8
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20131021	140		629	8.4	8.3	852	15.1	32	210		> 2400		0.02		3.2	
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20131112	134		638	9.1	8.4	844	12.0	22	15		1300		0.02		3.0	
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20131203	119		615	9.3	8.2	926	10.2	23	18		690		0.06		3.2	
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20140109	65		621	10.3	8.2	1010	5.7	20	8		490		0.17		3.8	
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20140211	100		626	9.5	8.1	1010	7.2	180	12		650		E 0.49	*21	3.9	
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20140305	83		630	8.5	8.3	934	13.7	93	3		210		E 0.07		3.4	
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20140404	121		628	7.7	8.1	929	14.3	110	51		2000		E 0.4		3.3	
Selenium Standard Change *Updated Rule 20140430																	4.8
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20140506	73		618	7	8.3	911	21.6	26	54		310		0.02		3.3	*32
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20140604	105		627	6.6	8.4	824	25.8	37	10		7700		0.02		2.7	
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20140707	69		628	6.9	8.4	937	25.2	18	600		5800		0.02		3.1	
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20140813	83		630	6.3	8.3	906	28.5	27	52		3600		0.02		2.8	
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20140904	75		627	7.9	8.2	876	16.5	39	160		16000		0.04		3	
Standards (if applicable)										126				See Note			8
FOUNTAIN CREEK NEAR PINON, CO	20131024	E 135		642	9.3	8.2	985	11.0	55	39		2000		< 0.02		2.9	
FOUNTAIN CREEK NEAR PINON, CO	20131118	156		638	10.3	8.3	941	6.3	90	110		> 2400		E 0.02		3.0	
FOUNTAIN CREEK NEAR PINON, CO	20131211	92		643	11.6	8.2	1050	0.7	88	28		1700		E 0.1		3.8	
FOUNTAIN CREEK NEAR PINON, CO	20140114	68		642	11	8.2	1110	4.1	54	11		1300		0.1		4.5	
FOUNTAIN CREEK NEAR PINON, CO	20140213	142		632	9.7	8.3	1050	7.5	120	23		1000		E 0.07		4.2	*33
FOUNTAIN CREEK NEAR PINON, CO	20140306	105		633	9	8.3	1040	11.9	65	10		250		< 0.02		3.9	
FOUNTAIN CREEK NEAR PINON, CO	20140407	76		638	8.9	8.3	1050	12.3	78	15		1000		E 0.02		4.1	
Selenium Standard Change *Updated Rule 20140430																	4.8
FOUNTAIN CREEK NEAR PINON, CO	20140514	50		644	8.9	8.2	1070	13.6	56	37		2000		< 0.02		4.7	
FOUNTAIN CREEK NEAR PINON, CO	20140609	116		637	7	8.4	918	22.8	82	450		20000		0.02		3.6	
FOUNTAIN CREEK NEAR PINON, CO	20140707	39		635	6.5	8.4	1070	28.5	63	210		5200		0.03		0.67	
FOUNTAIN CREEK NEAR PINON, CO	20140818	115		637	7.6	8.3	932	17.3	230	700		> 24000		0.02		3	
FOUNTAIN CREEK NEAR PINON, CO	20140903	72		634	7.4	8.3	989	20.2	110		*5		*10	0.02	*22	3.2	

Location	Date	Flow	Note	Barometric pressure	Dissolved oxygen	pH	Specific conductance	Temperature	Turbidity	Escherichia coli	Note	Total coliform	Note	Ammonia	Note	Selenium	Note
Standards (if applicable)										126				See Note		28.1	
FOUNTAIN CREEK AT PUEBLO, CO.	20131021	160		646	9.5	8.4	1110	14.3	100	46		> 2400		< 0.02		6.5	
FOUNTAIN CREEK AT PUEBLO, CO.	20131118	160		644	10.0	8.4	1120	9.1	95	130		2400		E 0.01		6.2	
FOUNTAIN CREEK AT PUEBLO, CO.	20131204	105		636	11.6	8.4	1230	1.5	50	29		1600		0.03		7.2	
FOUNTAIN CREEK AT PUEBLO, CO.	20140114	67		649	11.4	8.4	1270	5.3	36	2		410		0.04		10.3	
FOUNTAIN CREEK AT PUEBLO, CO.	20140210	142		644	12.1	8.4	1290	0.1	120	30		1600		E 0.17	*23	8.1	
FOUNTAIN CREEK AT PUEBLO, CO.	20140306	102		638	9.2	8.4	1180	11.8	67	8		360		0.03		8.2	
FOUNTAIN CREEK AT PUEBLO, CO.	20140407	94		645	8.7	8.4	1210	14	62	1		570		E 0.02		10	
FOUNTAIN CREEK AT PUEBLO, CO.	20140514	59		649	8	8.5	1260	18.3	40	9		600		0.03		12.8	
FOUNTAIN CREEK AT PUEBLO, CO.	20140604	82		640	6.5	8.5	1110	27.1	84	52		12000		0.02		8.9	
FOUNTAIN CREEK AT PUEBLO, CO.	20140702	E 38		650	8.3	8.7	1350	17.9	39	98		2900		0.02		15.1	
FOUNTAIN CREEK AT PUEBLO, CO.	20140812	230		647	6.7	8.3	967	26.6	240	630		> 24000			*24	6.1	
FOUNTAIN CREEK AT PUEBLO, CO.	20140902	76		641	6.7	8.4	1190	26.2	70	52		7700		0.1	*25	9.3	
Standards (if applicable)										126				See Note		14.1	
ARKANSAS RIVER NEAR AVONDALE, CO.	20131021	426		651	9.3	8.4	870	12.8	35	45		2400		< 0.02		10.0	
ARKANSAS RIVER NEAR AVONDALE, CO.	20131113	645		653	10.1	8.3	744	7.4	36	28		1400		< 0.02		8.2	
ARKANSAS RIVER NEAR AVONDALE, CO.	20131216	277		649	11.5	8.4	977	6.5	24	13		920		0.05		12.4	
ARKANSAS RIVER NEAR AVONDALE, CO.	20140113	257		646	11.9	8.5	997	2.7	16	13		330		0.04		14.1	
ARKANSAS RIVER NEAR AVONDALE, CO.	20140210	309		648	11.6	8.6	1080	0.5	62	38		870		E 0.14		14.9	
ARKANSAS RIVER NEAR AVONDALE, CO.	20140303	327		649	11.6	8.5	974	0.4	53	2		290		E 0.14		12.5	
ARKANSAS RIVER NEAR AVONDALE, CO.	20140401	350		639	10	8.5	875	13.4	28	6		210		< 0.02		13.3	
ARKANSAS RIVER NEAR AVONDALE, CO.	20140512	563		652	9.5	8.4	695	10.3	20	35		2400		< 0.02		10.4	
ARKANSAS RIVER NEAR AVONDALE, CO.	20140603	4750		644	8.3	8.4	466	14.4	70	140		4600		0.06		5.6	
ARKANSAS RIVER NEAR AVONDALE, CO.	20140702	1410		654	7.8	8.3	382	16.9	32	75		7300		< 0.02		4.2	
ARKANSAS RIVER NEAR AVONDALE, CO.	20140812	1440		652	7.4	8.1	545	20.5	290	630		10000		0.02		6.1	
ARKANSAS RIVER NEAR AVONDALE, CO.	20140902	608		646	7.5	8.3	614	24.7	33	63		6100		< 0.02		7	
Standards (if applicable)										126				See Note		28.1	
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20131028	137		642	8.8	8.3	1190	13.9	69	43		2400		< 0.02		7.3	
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20131113	155		647	10	8.4	1130	9.4	73	36		> 2400		0.02		6.7	
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20131211	95		650	11.6	8.3	1200	1.4	150	9		> 2400		E 0.07		8.3	
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20140114	85		650	10.7	8.4	1310	6.1	35	2		490		0.04		11	
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20140213	126		641	10.8	8.4	1210	4	100	15		730		E 0.07		8.8	
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20140303	116		644	10.7	8.4	1150	6.2	100	3		410		E 0.1		8.4	
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20140401	84		640	9.8	8.4	1270	9	46	6		210		< 0.02		10.9	
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20140512	50		648	9.1	8.6	1370	13.7	37	9		610		< 0.02		16.9	
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20140604	112		643	7.5	8.5	1110	21.7	72	140		9800		< 0.02		9.6	
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20140702	32		650	7.8	8.5	1450	17.3	38	200		8200		0.05		16	
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20140813	148		647	7.6	8.3	1070	17.7	160	370		> 24000		0.03 n		7.2	
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20140902	58		646	7	8.3	1240	24.1	43	120		6900		0.04 n		11.8 d	

Location	Date	Flow	Note	Barometric pressure	Dissolved oxygen	pH	Specific conductance	Temperature	Turbidity	Escherichia coli	Note	Total coliform	Note	Ammonia	Note	Selenium	Note
Standards (if applicable)										126				See Note		8	
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20131024	136		647	10	8.4	1120	13.0	82	30		2000		< 0.02		4.0	
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20131118	143		644	10.3	8.4	1090	8.3	93	190		2400		E 0.01		3.8	
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20131211	90		649	11.7	8.3	1160	2.1	110	15		1700		E 0.07	*26	4.7	
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20140113	83		639	10.4	8.5	1190	6	48	1		390		0.02		5.5	
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20140213	121		640	10.9	8.4	1170	2.2	79	25		1000		E 0.08		5.3	
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20140303	121		640	9.7	8.4	1100	9.5	110	16		460		E 0.11		5	
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20140401	84		639	10.4	8.4	1190	5.9	47	6		340		< 0.02		5.7	
Selenium Standard Change *Updated Rule 20140430																	4.8
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20140514	60		650	8.3	8.4	1200	17.7	40	15		570		< 0.02		6.6	
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20140604	107		642	7	8.5	1030	24.1	82	110		12000		< 0.02		4.4	
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20140710	50		642	7.4	8.3	1210	18.8	240	200		26000		< 0.02		5.4	
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20140815	205		644	6.4	8.3	908	27.7	750	2600		> 24000		0.04		3.5	
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20140903	58		641	7.7	8.4	1120	18	50		*6		*11	0.02		4.3	
Standards (if applicable)										126				See Note		8	
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20131024	130		631	9.5	8.2	807	8.9	30	110		2400		0.09		2.5	
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20131118	135		629	10.2	8.2	757	5.6	28	63		2000		0.07		2.4	
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20131211	79		634	11.7	8.3	934	0.1	27	110		1600		0.12		2.9	
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20140114	71		631	10.6	8.3	939	2	20	20		580		0.32	*27	3.5	*34
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20140213	110		620	8.5	8.2	945	10.6	63	120		2400		E 0.47	*28	3.3	
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20140306	90		624	9.6	8.2	874	7.3	18	23		440		0.31		2.8	
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20140407	92		627	9.2	8.2	842	7.5	29	29		2400		E 0.55	*29	2.8	
Selenium Standard Change *Updated Rule 20140430																	4.8
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20140506	89		618	8	8.4	812	19.9	14	11		330		0.04		2.7	
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20140609	134		626	7.3	8.4	747	20.7	82	130		8700		0.03		2.6	
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20140708	78		630	7.8	8.5	828	22.9	16	200		7700		0.03		2.4	
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20140814	97		627	E 6.5	8.4	849	E 26.6	22	110		4400		0.06		2.8	
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20140904	83		626	7.7	8.3	818	19.2	25	120		8700		0.24		2.7	

**Note on Ammonia:** Arkansas River Standards for Ammonia include calculations to be performed monthly. These standards are not included because calculations with the small volume of data taken for SDS would yield inaccurate standards.

**Note on Salinity:** No standards exist for Salinity along the Arkansas River.

\* QA Notes by #:

- \*1. No data for this parameter/date from USGS/site.
- \*2. Bacteria read late; Reviewed and rejected due to being outside the allowable time.
- \*3. Bacteria read late; Reviewed and rejected due to being outside the allowable time.
- \*4. Bacteria read late; Reviewed and rejected due to being outside the allowable time.
- \*5. Bacteria read late; Reviewed and rejected due to being outside the allowable time.
- \*6. Bacteria read late; Reviewed and rejected due to being outside the allowable time.
- \*7. Bacteria read late; Reviewed and rejected due to being outside the allowable time.
- \*8. Bacteria read late; Reviewed and rejected due to being outside the allowable time.
- \*9. Bacteria read late; Reviewed and rejected due to being outside the allowable time.
- \*10. Bacteria read late; Reviewed and rejected due to being outside the allowable time.
- \*11. Bacteria read late; Reviewed and rejected due to being outside the allowable time.
- \*12. Value verified by NWQL, New 5 year max.
- \*13. Value verified by NWQL, New 5 year max.
- \*14. Value verified by NWQL, New 5 year max.
- \*15. Rerun completed by NWQL, original value acceptable. Value is a new 5 year max.
- \*16. Rerun completed by NWQL, value within acceptable limits. New 5 year max.
- \*17. Rerun completed by NWQL, and is within acceptable precision; Not a new max/min.
- \*18. Rerun completed by NWQL, and is within acceptable precision; Not a new max/min.
- \*19. Verification completed by NWQL, and value was verified; New 5 yr max.
- \*20. Verification completed by NWQL, and value was verified; New 5 yr max.
- \*21. Rerun completed by NWQL, and value within acceptable precision; New 5 yr max.
- \*22. Value verified as of 10/29/14.
- \*23. Value verified as of 10/29/14.
- \*24. No data; Lab errantly deleted the LC for constituent.
- \*25. Verified on 10/29/2014.
- \*26. Verification completed 04/11/2014
- \*27. Rerun completed by NQWL, and value within acceptable precision. Not a new min/max.
- \*28. Rerun completed by NQWL, and value within acceptable precision. Not a new min/max.
- \*29. Rerun completed by NQWL, and value within acceptable precision. New 5 year max.
- \*30. Rerun completed by NWQL; New value retained.
- \*31. Rerun completed by NWQL, and is within acceptable precision; Not a new max/min.
- \*32. Rerun completed by NWQL, and value within acceptable precision; Not a new max/min.
- \*33. Rerun completed by NWQL, and value was verified; No new 5 yr min/max.
- \*34. Rerun completed by NQWL, and value within acceptable precision. Not a new min/max.

# Complaint Log

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County	Date	Caller (Contact)	Reason	Response	Follow up	Disposition
EPC	2/3/2014	Connie Kalew	Westbound light at Constitution and Marksheffel not timed correctly before construction, but now delayed time causing new issues.	Called back and thanked her for bringing this to our attention. Said we'll look into it.	Called contractor and county traffic to check light function. County sent a technician to adjust the light. 2/6: She called back to thank the team for addressing her concerns about the light. She was very happy with our responsiveness and good customer service in dealing with her concern.	She said she is not a fan of construction and is not a patient person.
EPC	2/11/2014	Judith LeDean	Calling to inquire about why a pipeline is being built through Cherokee Water District's service area and if it will serve the district.	Explained to her that this is CSUs pipeline to serve that CSU service area, and that the service area boundary meanders through that area.	None requested	She was appreciative of the information.
EPC	2/20/2014	Crystal Sanchez	Calling to inquire if the contractor has plans to repair a washed out culvert near the alignment and the power lines.	Spoke with her to clarify the location and relation of damage to SDS activities. Told her we'd need to look at some of our files to see if any repairs were planned	Spoke with PMs about any impacts from sites and none had any impact. Followed up with caller and others to update them.	Xcel were thankful for us looking into the matter and SDS providing more information. They said it's clear we didn't contribute to the conditions on their site.
EPC	2/28/2014	Rik Noring	Called in to let us know about some road damage that was worsening.	Thanked him for the call and said we'd look into the condition and inform him of next steps.	Worked with the team to coordinate a repair. Kept the business owner informed.	Rik was thankful for us addressing the condition.

County	Date	Caller (Contact)	Reason	Response	Follow up	Disposition
EPC	3/4/2014	Paula	Cherokee water customer calling to inquire if construction has caused her loss of water service.	Indicated that there should be no loss of service and she should call Cherokee. Checked in with the construction team to make sure nothing unforeseen has happened.	Called her back to confirm that nothing had occurred in the construction area that would interfere with her water service.	She seemed satisfied and said she would work with Cherokee.
EPC	3/5/2014	Raymond Robertson	Cherokee water customer calling to inquire if construction has caused her loss of water service	Indicated that there should be no loss of service and she should call Cherokee. Checked in with the construction team to make sure nothing unforeseen has happened.	Called him back to confirm that nothing had occurred in the construction area that would interfere with his water service.	Seemed satisfied and said he would work with Charokee.
EPC	4/7/2014	Jessie Washburn	Commutes to Horizon MS, asking about Canada Dr closure status.	Shared information about the closure with him. Encouraged him to use alternate route to get around moving construction closures/detours.	None requested	Still frustrated with detours and said he'd have to look at any alternate way.
EPC	4/8/2014	Jessie Washburn	Asking why Canada is not reopened	Called back and left message updating him. Encouraged him to use alternate route to get around moving construction closures/detours.	None requested	Seemed eager to have work done but satisfied.
EPC	4/9/2014	Joe Martin	Asking if SDS has any plans to compensate him for loss of trees behind his home.	Talked through his location in relation to our construction. His property is not adjacent to SDS work; appears related to PPRTA work on Marksheffel than our alignment, helped him understand about other projects in the area and how he can learn more about them.	None requested	He was thankful for the assistance.

County	Date	Caller (Contact)	Reason	Response	Follow up	Disposition
EPC	4/17/2014	Rob Sparks	Requesting a status update on crossings, detours and closures.	Spoke with him and his supervisor about the traffic plans. Emailed additional information for their use.	None requested	Seemed satisfied
PC	5/1/2014	Dwaine Maxwell	Calling to ask when irrigation was going to turn on, and inquire about renewing his revegetation license.	Updated him on the anticipated watering startup schedule, and set up an appointment to discuss his license.	Held follow up meetings to discuss watering and license.	Concerned about upcoming growing season. Appreciative about being met with.
PC	5/4/2014	Essig family	Concern about a neighbor grazing horses and cattle on their easement property without their approval. Worried about impact on reveg.	Guided the Essigs to contacts with the county sheriff and brand inspector so they could follow up on their concerns with authorities.	Request from the Essigs that we all keep our eyes on this	Seemed satisfied
PC	5/9/2014	La Vetta Kay	Asking about revegetation activities and cleanup on property, requested to meet.	Setup meeting to talk through this year's revegetation on her property and next steps. She indicated that she prefers emails regarding access to property, and no license.	Met on 5/16 to walk property. Sent 5/16 email scheduling activity for June 4, 5, and 6. Sent 6/6 email documenting completion of work. Conducted 6/6 walkthough. Will followup after a month of watering.	She was thankful for cleanup of the overgrowth and the walkthrough. She thought the property looked good.
EPC	6/3/2014	Manager for the Safeway plaza	Had a few follow up questions regarding upcoming closures and detours.	Had met with another SDS team member earlier in the day and was referred to that team member for further assistance.	None requested	She was thankful.
PC	6/9/2014	Elovida Velasquez	Calling in a broken sprinkler head and water leak behind her property.	Thanked her for the call and worked with contractor for any repairs. Told her to keep our number handy if she ever has other issues.	None requested	She was appreciative of the quick response.

County	Date	Caller (Contact)	Reason	Response	Follow up	Disposition
PC	7/11/2014	Dwaine Maxwell	Calling to express his displeasure about watering of the revegetation on his property. Indicated he may let the county know about his displeasure.	Updated him on the current watering cycles, upcoming cycles, and explained to him the importance of training the grass to use less water. Verified with the contractor that the system is working and he is receiving the planned amount of water.	Called back to let him to let him know he should have seen the second cycle of the day on the property. Let him know that SDS may have a representative updating the county next week, and we'd make sure to have more information available.	Mr. Maxwell remained upset.
PC	7/11/2014	Pam Williams	Question about watering schedule	Explained that irrigation is being deliberately reduced to reduce plant dependence	Mrs. Williams said she understood.	She seemed satisfied.
PC	7/17/2014	Bobby Luttrell	Calling to report a potential leak in the sprinkler system and inquire about water schedule and concern about not enough water.	Worked with the contractor to check for any leaks. None were found. Inquired about latest watering schedule for that zone.	Updated property owner about the sprinkler system and water schedule. No leaks were found, and provided information on the watering in relation to training the drought tolerant grass to be less dependent on the watering this growing season.	Property owner had no further questions and seemed satisfied.

County	Date	Caller (Contact)	Reason	Response	Follow up	Disposition
EPC	7/24/2014	Chris Wren	Concern about construction impacts to neighborhood and school.	Provided him with information about partnering with the schools to limit the impact and their support. Explained steps taken to minimize neighborhood impacts and urgency to complete the project as quickly as possible.	Sent a follow up email to him with information.	Seemed satisfied.
PC	7/24/2014	Cindy Gandara	Calling to ask if we'll be mowing again this year, and expressing an interest in having snake mitigation on her property.	Coordinated with snake mitigation contractor. Prop owner did not follow through.	Property owner indicated she has been very busy and unable to meet the snake mitigation contractor. She said she isn't experiencing any more of a problem and will call us if she has an urgent need.	Appreciative of the follow through, and thankful for the response.
EPC	8/8/2014	Name unknown	Concern about workers starting work at 6 a.m. -- earlier than permits allow	Apologized and pursued with paving contractor and reminded them of working hours.	None requested	Caller seemed satisfied with planned response
EPC	8/15/2014	Mike Ketchens from D-	Request for update on road closings and other traffic arrangements	Provided him with schedule information	Keep in touch	Seemed satisfied.
PC	8/15/2014	Chief Caserta from Pueblo West	Has SDS team noticed sinkholes or depressions along with alignment anywhere? Says he is asking for residents.	Asked if Chief is aware of any sinkholes. Also discussed our process for monitoring for areas that might be sinking and invited him to let us know if anyone is aware of any -- but we are watching.	Keep on it.	Chief Caserta seemed satisfied.

County	Date	Caller (Contact)	Reason	Response	Follow up	Disposition
EPC	8/21/2014	Paula and Brian	Calling about road condition and asking about county contacts for repair.	Called transportation office to help them coordinate with the county contacts. Since the road is no longer active with construction, the county has re assumed responsibility for repairs.	Contacted the office to share information on the best people with the county to work with regarding the road repair.	Office was thankful for the assistance and had no further questions.
PC	9/2/2014	Mr. Dechabert	Concern about snakes due to vegetation height.	Offered to dispatch snake mitigation contractor.	Mr. Dechabert declined offer.	Mr. Dechabert was appreciative of the offer and seemed satisfied.
EPC	9/15/2014	anonymous via El Paso County Planning	County planning received a public complaint about conditions during road closure following an accident.	Collaborated with the team to have the contractor check their traffic plan and identify any improvements. Contractor, working with CDOT, confirmed that the traffic plan was the best approach. Contractor did extend the use of flaggers to cover more of the commute time and further limit safety concerns.	Called county planning to make them aware of the traffic plan and inform them about our collaboration with CDOT.	County planning was appreciative of the quick response and considerations to public safety.
EPC	9/16/2014	Justin Morgan	Question whether Highway 94 is open yet after closure for open cut	Shared schedule with caller and invited call back if he has more questions.	The commuter had no further questions.	Caller seemed satisfied.
EPC	9/16/2014	Jeanie, El Paso County Public Services	Received call complaint about flaggers and traffic control from a member of the public that was in an accident near the construction area.	Contractor evaluated plan and made adjustments to flaggers schedules to ensure a longer period of active management of the intersection.	Informed El Paso County about traffic plans and expected duration of activities	Seemed satisfied.

County	Date	Caller (Contact)	Reason	Response	Follow up	Disposition
EPC	9/18/2014	Sgt Julius Delos Reyes	Sgt was inquiring about the reopening of 94.	I contacted the Sgt to update them on the rescheduled opening date and shared information that was sent to the base's PIO office the night before.	The Sgt and individuals at the base had no further questions.	The Sgt and base were thankful for being updated
EPC	9/21/2014	Manager of KFC on Constitution	Concern about presence of traffic barriers and possible impact on business.	Contacted field team to arrange for reduction of barriers and any steps to reduce visible interference with traffic.	Keep on it.	Manager seemed eager for work to be done but satisfied
PC	9/26/2014	Mr. Holcomb	Dust concern related to vehicles doing warranty work on S3	Called PM on duty and arranged for water truck to spray within 30 minutes.	Water truck scheduled for at least 4 times per day.	Caller seemed satisfied.
EPC	10/13/2014	Doug Ekberg	Sent an email inquiry concerning any uncovered water areas planned at the site and impact to migrating birds. Requesting additional information on future reservoir.	Emailed him back and connected him with permitting who spoke with him about the planning and mitigation considerations implemented to protect migratory birds.	Followed up with him further to present paperwork documenting USDA's involvement in permitting and design of the nearby WTP.	Seemed satisfied.
EPC	10/16/2014	Georgia Key	Calling about any planned mowing across from their property near Heritage Road.	Checked in with the construction team on any planned activities.	None requested	Seemed satisfied.
EPC	11/7/2014	CSU Customer Care Ce	Public inquiry about safety signage around construction area and desire to have less.	Shared information on the need for signs to remain, even if most construction is done. Construction still active in the area.	CSU Customer Care followed up with the individual, and there were no further questions.	Seemed satisfied.

County	Date	Caller (Contact)	Reason	Response	Follow up	Disposition
EPC	12/1/2014	Wayne Simshauser	Wanted to report suspicious activity/individual in pipeline easement	Staff checked, found "live" animal traps in bushes, found out unauthorized by property owners	Property owners reported that traps were no longer present and thanks SDS for partnering	Seemed satisfied.
PC	12/1/2014	Anonymous caller through Utilities Disptach	Recreational user of motor sports park worried when he saw staging area fence had been damaged/knocked down wanted to report vandalism.	Thanked caller through Dispatch and arranged for SDS staff to check location. Looked like accidental fence damage -- no thefts or further damage	none requested	Seemed satisfied.
EPC	12/26/2014	CSU dispatch	CSU dispatch received a call from a driver who noticed water leaking into the highway and was worried about ice forming.	The construction team looked into the cause, and found a pipe that had burst from the cold that was leaking. The valve was shut down and CDOT was called to sand the roadway	the team follow up over the weekend to make sure no other leaks took place	Seemed satisfied.



# Emergency Response Log

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No attachment is provided because no emergency response incidents associated with construction of SDS occurred during this reporting period.

# Log of Work Occurring During Non-Typical Work Hours

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Work Occurring During Non-Typical Work Hours

Work Package	Day	Date	Hours Worked	Reason
BPS	Tuesday	3/11/2014	4:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Monday	4/14/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Tuesday	4/15/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Wednesday	4/16/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Thursday	4/17/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Friday	4/18/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Monday	4/21/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Tuesday	4/22/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Wednesday	4/23/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Thursday	4/24/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Friday	4/25/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Monday	4/28/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Tuesday	4/29/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Wednesday	4/30/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Thursday	5/1/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Friday	5/2/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Monday	5/5/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Tuesday	5/6/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Wednesday	5/7/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Thursday	5/8/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Friday	5/9/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Monday	5/12/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Tuesday	5/13/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Wednesday	5/14/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Thursday	5/15/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Friday	5/16/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Monday	5/19/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Tuesday	5/20/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Wednesday	5/21/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Thursday	5/22/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Friday	5/23/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Tuesday	5/27/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Wednesday	5/28/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Thursday	5/29/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Friday	5/30/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Monday	6/2/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Tuesday	6/3/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Wednesday	6/4/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work

Work Occurring During Non-Typical Work Hours

Work Package	Day	Date	Hours Worked	Reason
BPS	Thursday	6/5/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Friday	6/6/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Monday	6/9/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Tuesday	6/10/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Wednesday	6/11/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Thursday	6/12/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Friday	6/13/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Monday	6/16/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Tuesday	6/17/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Wednesday	6/18/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Thursday	6/19/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Friday	6/20/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Monday	6/23/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Tuesday	6/24/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Wednesday	6/25/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Thursday	6/26/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Friday	6/27/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Monday	6/30/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Tuesday	7/1/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Wednesday	7/2/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Thursday	7/3/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Monday	7/7/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Tuesday	7/8/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Wednesday	7/9/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Thursday	7/10/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Friday	7/11/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Monday	7/14/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Tuesday	7/15/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Wednesday	7/16/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Thursday	7/17/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Friday	7/18/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Monday	7/21/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Monday	7/21/2014	6:00 p.m. - 6:30 p.m.	Concrete Related Work
BPS	Tuesday	7/22/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Tuesday	7/22/2014	6:00 p.m. - 6:30 p.m.	Concrete Related Work
BPS	Wednesday	7/23/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Wednesday	7/23/2014	6:00 p.m. - 6:30 p.m.	Concrete Related Work
BPS	Thursday	7/24/2014	1:00 a.m. - 7:00 a.m.	Concrete Related Work

Work Occurring During Non-Typical Work Hours

Work Package	Day	Date	Hours Worked	Reason
BPS	Friday	7/25/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Monday	7/28/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Tuesday	7/29/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Wednesday	7/30/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Thursday	7/31/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Monday	8/4/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Tuesday	8/5/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Wednesday	8/6/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Thursday	8/7/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Friday	8/8/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Monday	8/11/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Tuesday	8/12/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Wednesday	8/13/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Thursday	8/14/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Friday	8/15/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Monday	8/18/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Tuesday	8/19/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Wednesday	8/20/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Thursday	8/21/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Friday	8/22/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Monday	8/25/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Tuesday	8/26/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Wednesday	8/27/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Thursday	8/28/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Friday	8/29/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Tuesday	9/2/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Wednesday	9/3/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Thursday	9/4/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Friday	9/5/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Monday	9/8/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Tuesday	9/9/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Wednesday	9/10/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Thursday	9/11/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Friday	9/12/2014	6:00 a.m. - 7:00 a.m.	Concrete Related Work
BPS	Wednesday	11/19/2014	5:00 a.m. - 7:00 a.m.	Concrete Related Work
FW3	Monday	3/25/2014	6:00 p.m. - 7:00 p.m.	Peterson Road Crossing
FW3	Tuesday	3/26/2014	6:00 p.m. - 7:00 p.m.	Peterson Road Crossing
FW3	Wednesday	3/27/2014	6:00 p.m. - 7:00 p.m.	Peterson Road Crossing

Work Occurring During Non-Typical Work Hours

Work Package	Day	Date	Hours Worked	Reason
FW3	Thursday	3/28/2014	6:00 p.m. - 7:00 p.m.	Peterson Road Crossing
FW3	Friday	8/8/2014	6:00 a.m. - 6:30 a.m.	Paving Contractor began unauthorized work at 6:00 a.m. Work was stopped and contractor was reminded of working hours. It did not happen again.
JPS	Saturday	1/4/2014	7:00 a.m. - 6:00 p.m.	Maintaining construction schedule
JPS	Saturday	1/25/2014	7:00 a.m. - 6:00 p.m.	Maintaining construction schedule
JPS	Saturday	2/1/2014	7:00 a.m. - 6:00 p.m.	Maintaining construction schedule
JPS	Saturday	2/8/2014	7:00 a.m. - 6:00 p.m.	Maintaining construction schedule
JPS	Saturday	2/15/2014	7:00 a.m. - 6:00 p.m.	Maintaining construction schedule
JPS	Saturday	2/22/2014	7:00 a.m. - 6:00 p.m.	Maintaining construction schedule
JPS	Saturday	3/8/2014	7:00 a.m. - 6:00 p.m.	Maintaining construction schedule
JPS	Saturday	3/15/2014	7:00 a.m. - 6:00 p.m.	Maintaining construction schedule
JPS	Saturday	3/22/2014	7:00 a.m. - 6:00 p.m.	Maintaining construction schedule
JPS	Saturday	3/29/2014	7:00 a.m. - 6:00 p.m.	Maintaining construction schedule
JPS	Saturday	4/5/2014	7:00 a.m. - 4:00 p.m.	Maintaining construction schedule
JPS	Saturday	4/12/2014	7:00 a.m. - 4:00 p.m.	Maintaining construction schedule
JPS	Saturday	4/26/2014	7:00 a.m. - 4:00 p.m.	Maintaining construction schedule
JPS	Saturday	5/3/2014	7:00 a.m. - 4:00 p.m.	Maintaining construction schedule
JPS	Saturday	5/10/2014	7:00 a.m. - 4:00 p.m.	Maintaining construction schedule
JPS	Saturday	5/17/2014	7:00 a.m. - 6:00 p.m.	Maintaining construction schedule
JPS	Saturday	8/2/2014	7:00 a.m. - 4:30 p.m.	Maintaining construction schedule
JPS	Saturday	9/6/2014	7:00 a.m. - 4:30 p.m.	Maintaining construction schedule
JPS	Saturday	9/20/2014	7:00 a.m. - 4:30 p.m.	Maintaining construction schedule
JPS	Saturday	9/27/2014	7:00 a.m. - 4:30 p.m.	Maintaining construction schedule
JPS	Saturday	10/18/2014	7:00 a.m. - 4:30 p.m.	Maintaining construction schedule
JPS	Saturday	10/25/2014	7:00 a.m. - 4:30 p.m.	Maintaining construction schedule
JPS	Saturday	11/8/2014	7:00 a.m. - 4:30 p.m.	Maintaining construction schedule
JPS	Saturday	11/15/2014	7:00 a.m. - 4:30 p.m.	Maintaining construction schedule
JPS	Saturday	11/22/2014	7:00 a.m. - 4:30 p.m.	Maintaining construction schedule
JPS	Saturday	12/6/2014	7:00 a.m. - 4:30 p.m.	Maintaining construction schedule
JPS	Saturday	12/13/2014	7:00 a.m. - 4:30 p.m.	Maintaining construction schedule
JPS	Saturday	12/20/2014	7:00 a.m. - 4:30 p.m.	Maintaining construction schedule
PDC1B	Saturday	1/4/2014	7:00 a.m. - 6:00 p.m.	Maintaining construction schedule
PDC1B	Saturday	1/25/2014	7:00 a.m. - 6:00 p.m.	Maintaining construction schedule
PDC1B	Saturday	2/1/2014	7:00 a.m. - 6:00 p.m.	Maintaining construction schedule
PDC1B	Saturday	2/8/2014	7:00 a.m. - 6:00 p.m.	Maintaining construction schedule
PDC1B	Saturday	2/15/2014	7:00 a.m. - 6:00 p.m.	Maintaining construction schedule
PDC1B	Saturday	2/22/2014	7:00 a.m. - 6:00 p.m.	Maintaining construction schedule
PDC1B	Saturday	3/1/2014	7:00 a.m. - 6:00 p.m.	Maintaining construction schedule

Work Occurring During Non-Typical Work Hours

Work Package	Day	Date	Hours Worked	Reason
PDC1B	Saturday	3/8/2014	7:00 a.m. - 6:00 p.m.	Maintaining construction schedule
PDC1B	Saturday	3/15/2014	7:00 a.m. - 6:00 p.m.	Maintaining construction schedule
PDC1B	Saturday	3/22/2014	7:00 a.m. - 6:00 p.m.	Maintaining construction schedule
PDC1B	Saturday	3/29/2014	7:00 a.m. - 6:00 p.m.	Maintaining construction schedule
PDC1B	Saturday	4/5/2014	7:00 a.m. - 4:00 p.m.	Maintaining construction schedule
PDC1B	Saturday	4/12/2014	7:00 a.m. - 4:00 p.m.	Maintaining construction schedule
PDC1B	Saturday	6/14/2014	7:00 a.m. - 6:00 p.m.	Maintaining construction schedule
S3	Saturday	10/4/2014	7:00 a.m. - 5:00 p.m.	Weather condition and project schedule
S3	Sunday	10/5/2014	7:00 a.m. - 5:00 p.m.	Weather condition and project schedule
S3	Sunday	10/12/2014	7:00 a.m. - 5:00 p.m.	Weather condition and project schedule
S3	Saturday	10/18/2014	7:00 a.m. - 5:00 p.m.	Weather condition and project schedule
S3	Sunday	10/19/2014	7:00 a.m. - 5:00 p.m.	Weather condition and project schedule
S3	Saturday	11/15/2014	7:00 a.m. - 5:00 p.m.	Weather condition and project schedule
S4A Central	daily	3/1/14 to 12/31/14	6:00 p.m. - 7:00 a.m.	Tunneling Activities. The majority of work was performed in two 10-hour shifts per day with an increase to 12-hour shifts approximately halfway through the project.
WCPS	Friday	3/28/2014	4:00 a.m. - 7:00 a.m.	Concrete Related Work
WCPS	Tuesday	7/1/2014	2:00 a.m. - 7:00 a.m.	Concrete Related Work
WCPS	Thursday	7/31/2014	4:00 a.m. - 7:00 a.m.	Concrete Related Work
WCPS	Thursday	8/28/2015	4:00 a.m. - 7:00 a.m.	Concrete Related Work
WCPS	Wednesday	10/15/2014	4:00 a.m. - 7:00 a.m.	Concrete Related Work
WCPS	Thursday	10/16/2014	4:00 a.m. - 7:00 a.m.	Concrete Related Work
WTP	Friday	9/12/2014	6:00 p.m. - 12:00 a.m.	Crossing of Hwy 94
WTP	Saturday	9/13/2014	12:00 a.m. - 7:00 a.m.	Crossing of Hwy 94
WTP	Saturday	9/13/2014	6:00 p.m. - 12:00 a.m.	Crossing of Hwy 94
WTP	Sunday	9/14/2014	12:00 a.m. - 12:00 a.m.	Crossing of Hwy 94
WTP	Monday	9/15/2014	12:00 a.m. - 7:00 a.m.	Crossing of Hwy 94

# Expenditures for Wastewater System Improvements Annual Report for 2014

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# Pueblo County 1041 Permit

## Expenditures for Wastewater System Improvements

### Annual Progress Report

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January 26, 2015

Reporting for the period between January 1, 2014 and December 31, 2014

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**APPENDIX A – LCERP COMPLETION TABLE**

**APPENDIX B – MHERP COMPLETION TABLE**

**APPENDIX C – SSCC COMPLETION TABLE**

## Introduction

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On March 18, 2009 the Pueblo Board of County Commissioners passed Resolution No. P&D 09-22, approving 1041 Permit No. 2008-002 with terms and conditions for construction of the Southern Delivery System water project within Pueblo County, Colorado.

1041 Permit Condition No.7 requires that Springs Utilities provide an annual report to the Pueblo County Board of Commissioners on or before January 31 of each year reporting the Wastewater System Improvement expenditures from January 1 through December 31. Condition No.7 of the permit states:

***Expenditures for Wastewater System Improvements***

*In order to continue its efforts to protect against future spills to Fountain Creek, to increase its opportunities for reuse, and to mitigate possible water quality impacts by the SDS Project to Fountain Creek, Colorado Springs Utilities shall commit to invest an additional seventy-five million dollars (\$75,000,000) in its wastewater system. Expenditures will be made as part of the wastewater collection system rehabilitation programs or wastewater reuse systems between January 1, 2010 and December 31, 2024 as required. These expenditures shall be for projects not currently required by other regulatory permits, agency enforcement or court orders, consent agreements, or governmental regulations existing as of January 30, 2010. These expenditures will include the Local Collector Evaluation and Rehabilitation Program (LCERP) for the improvement and fortification of wastewater lines which could adversely affect Fountain Creek or its tributaries. These expenditures are subject to annual appropriation by the Colorado Springs City Council. Beginning in 2010, by January 31 of each year, Colorado Springs Utilities shall provide an annual report to Pueblo County describing such expenditures for the prior year.*

The Wastewater Collection System Rehabilitation Programs are comprehensive programs that systematically inspect, evaluate, prioritize, and rehabilitate the entire Springs Utilities collection system. In 2014, the projects that met the terms of Condition No. 7 are: 1) the Local Collectors Evaluation and Rehabilitation Project (LCERP); 2), the Manhole Evaluation and Rehabilitation Project (MHERP); 3) the Collection System Rehabilitation and Replacement Project (R&R); and 4) Sanitary Sewer Creek Crossing Project (SSCC). These projects are independent of Springs Utilities' normal operation and maintenance programs.

## Project Descriptions

### Local Collectors Evaluation and Rehabilitation Project (LCERP)

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LCERP consists of the systematic evaluation and rehabilitation of sewer collection pipes less than 10-inch in diameter.

LCERP:

- Determines the condition of all the sanitary sewer pipe segments less than 10-inches in diameter and places them by priority on a schedule to be re-inspected, rehabilitated, repaired and/or replaced.
- Reduces the risk of Sanitary Sewer Overflows (SSO's)
- Is part of the overall long-term investments to our wastewater system through the year 2025.

LCERP repaired or rehabilitated approximately 70,286 feet of less than 10-inch sewer pipe, representing approximately 257 line segments, at a cost of \$4,242,628 in 2014.

## Manhole Evaluation and Rehabilitation Project (MHERP)

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MHERP has been developed as a comprehensive program to provide the rehabilitation of sanitary sewer manholes throughout the Springs Utilities wastewater collection system.

MHERP:

- Is designed to reducing the risk of spills, stoppages and SSOs
- Reduces infiltration and inflow at manholes throughout collection system.

MHERP repaired or rehabilitated 171 manholes, at a cost of \$205,348 in 2014.

## Collection System Rehabilitation and Replacement Project (R&R)

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The Sanitary Sewer Evaluation and Rehabilitation Program (SSERP) was completed on December 31, 2012, meeting all the requirements of the CDPHE Compliance Order on Consent (COC). Closure of the COC was requested on January 29, 2013 and granted by CDPHE on March 8, 2013. The successor Collection System Replacement and Rehabilitation Program (R&R) contracts were also put into place in 2009 to continue the rehabilitation and replacement of the pipes identified and is described below. The total cost associated with SSERP since 2000 is approximately \$74.85million.

The R&R project rehabilitates or replaces large diameter (greater than 10-inch) sewer pipe that were installed after January 1, 1994.

R&R:

- Is designed to facilitate operations, increase capacity, and upgrade the system
- Focuses on the reduction of sanitary sewer overflows and stoppages
- Reduces the risk of spills and protecting the public health and environment.

There were no pipes rehabilitated in 2014 that would be applicable to the terms of the 1041 Permit.

## Wastewater Reuse System

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The Wastewater Reuse System consists of several pumping stations, storage reservoirs, holding ponds, transmission mains and a tertiary treatment facility.

Wastewater Reuse Systems:

- Deliver tertiary-treated wastewater to parks, cemeteries, golf courses and commercial properties for landscape irrigation
- Deliver tertiary-treated wastewater to Drake Power Plant for evaporative cooling
- Include supplies from raw surface water, groundwater, and reclaimed water.

Only normal operation and maintenance of the reuse system was conducted in 2014.

## Sanitary Sewer Creek Crossings (SSCC)

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The SSCC work consists of the systematic inspection, evaluation, the repair and/or replacement of sanitary sewer pipes and the erosion protection of various creek crossings structures in order to reduce the risk of spills, stoppages, and sanitary sewer overflows (SSO's) on pipelines that cross minor and major drainages. SSCC is included in this report beginning in 2014 because, as of December 31, 2012, CSU met all the requirements of the CDPHE Compliance Order on Consent. Closure of the COC was requested on January 29, 2012 and granted by CDPHE on March 8, 2012. SSCC is no longer *“required by other regulatory permits, agency enforcement or court orders, consent agreements, or governmental regulation”*, and therefore has been added to the report totals.

SSCC improvements:

- Provide long term creek stabilization for crossings and longitudinal
- Extend the life of the individual system component, and
- Improve the overall condition of the SU sanitary sewer system

There are approximately 370 sanitary sewer creek crossings in the major and minor drainages that have been evaluated and are on a re-inspection schedule. Since 2005, we have stabilized, replaced or eliminated 114 sanitary sewer creek crossings and/or longitudinal pipelines.

In 2014, SSCC repaired or rehabilitated 4 creek crossings projects, at a cost of \$3,303,553.

## Summary

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During the reporting period of January 1, 2014 through December 31, 2014 costs for LCERP, MHERP, and SSCC totaled \$7,751,529. The total Wastewater Expenditures reported since 2010 is \$38,686,007.

## Appendix A

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2014 LCERP Completion Table

CSU Location ID	Work Order #	DIAMETER (inches)	LENGTH (feet)	Assesment Description	Collection Basin Name	Date Complete
WW.143345	2578658	8	119	CIPP	PATTY JEWETT	01/27/14
WW.161760	1858814	8	510	CIPP	PATTY JEWETT	02/02/14
WW.157947	1850994	8	346	CIPP	SPRING CREEK	02/12/14
WW.164043	1850996	8	279	CIPP	SPRING CREEK	02/12/14
WW.160323	2578659	8	450	CIPP	PATTY JEWETT	02/18/14
WW.134424	2578655	8	104	CIPP	PATTY JEWETT	02/18/14
WW.161705	1818480	8	309	CIPP	PATTY JEWETT	02/19/14
WW.141298	1851177	8	134	CIPP	PATTY JEWETT	02/19/14
WW.154789	1963430	8	302	CIPP	TEMPLETON GAP	02/24/14
WW.150793	1963367	8	387	CIPP	TEMPLETON GAP	02/24/14
WW.136425	1960483	8	289	CIPP	TEMPLETON GAP	02/25/14
WW.140508	2579772	8	264	CIPP	TEMPLETON GAP	02/25/14
WW.148803	2578668	8	353	CIPP	UPPER SAND CREEK	03/03/14
WW.156932	2578662	8	342	CIPP	UPPER SAND CREEK	03/04/14
WW.138483	2047824	8	296	CIPP	TEMPLETON GAP	03/05/14
WW.133173	2630226	8	259	CIPP	UPPER SAND CREEK	03/06/14
WW.133172	2630192	8	184	CIPP	UPPER SAND CREEK	03/06/14
WW.144674	2048290	8	160	CIPP	TEMPLETON GAP	03/10/14
WW.146766	2048213	8	129	CIPP	TEMPLETON GAP	03/10/14
WW.144744	2032640	8	107	CIPP	TEMPLETON GAP	03/11/14
WW.154844	2032632	8	358	CIPP	TEMPLETON GAP	03/11/14
WW.159003	2032634	8	197	CIPP	TEMPLETON GAP	03/11/14
WW.150840	2578664	8	282	CIPP	UPPER SAND CREEK	03/12/14
WW.159000	2578669	8	387	CIPP	UPPER SAND CREEK	03/12/14
WW.146775	2140923	8	326	CIPP	TEMPLETON GAP	03/13/14
WW.135619	2048131	8	375	CIPP	TEMPLETON GAP	03/14/14
WW.140514	2583074	8	327	CIPP	TEMPLETON GAP	03/14/14
WW.133871	2678147	8	259	CIPP	SOUTH TEJON	03/17/14
WW.134171	2678146	8	290	CIPP	NORTH SUBURBAN	03/17/14
WW.134315	2678144	8	28	CIPP	NORTH SUBURBAN	03/18/14
WW.134316	2678143	8	164	CIPP	NORTH SUBURBAN	03/18/14
WW.134317	2678142	8	208	CIPP	NORTH SUBURBAN	03/18/14
WW.139164	2678141	8	250	CIPP	NORTH SUBURBAN	03/18/14
WW.140622	2678140	8	209	CIPP	UPPER SAND CREEK	03/19/14
WW.140974	2678139	8	244	CIPP	SOUTH TEJON	03/19/14
WW.143404	1883247	8	300	CIPP	PATTY JEWETT	03/20/14
WW.142639	2140804	8	244	CIPP	TEMPLETON GAP	03/20/14
WW.143073	2678133	8	307	CIPP	SOUTH TEJON	03/23/14
WW.144815	2678132	8	386	CIPP	UPPER SAND CREEK	03/23/14
WW.144826	2678131	8	76	CIPP	UPPER SAND CREEK	03/24/14
WW.146029	2678130	8	305	CIPP	UPPER SAND CREEK	03/24/14
WW.146872	2678129	8	280	CIPP	UPPER SAND CREEK	03/24/14
WW.140997	2695995	8	246	CIPP	SOUTH TEJON	03/25/14
WW.143092	2695996	8	268	CIPP	SOUTH TEJON	03/25/14
WW.155264	2695997	8	71	CIPP	SOUTH TEJON	03/25/14
WW.138955	2695998	8	31	CIPP	SOUTH TEJON	03/25/14
WW.146901	2678128	8	291	CIPP	UPPER SAND CREEK	03/27/14
WW.148886	2678124	8	250	CIPP	UPPER SAND CREEK	03/27/14
WW.148887	2678120	8	135	CIPP	UPPER SAND CREEK	03/27/14
WW.140976	2678138	8	183	CIPP	SOUTH TEJON	03/31/14
WW.140980	2678136	8	362	CIPP	SOUTH TEJON	03/31/14
WW.152118	2026533	8	272	CIPP	TEMPLETON GAP	04/01/14
WW.146025	2032648	8	260	CIPP	TEMPLETON GAP	04/01/14
WW.138494	2140801	8	337	CIPP	TEMPLETON GAP	04/02/14

2014 LCERP Completion Table

CSU Location ID	Work Order #	DIAMETER (inches)	LENGTH (feet)	Assesment Description	Collection Basin Name	Date Complete
WW.138495	2021719	8	312	CIPP	TEMPLETON GAP	04/04/14
WW.134445	2578657	8	149	CIPP	PATTY JEWETT	04/07/14
WW.161726	1856884	8	238	CIPP	PATTY JEWETT	04/07/14
WW.181331	2578660	8	377	CIPP	PATTY JEWETT	04/08/14
WW.159880	1832705	8	240	CIPP	SPRING CREEK	04/08/14
WW.144319	2583378	8	300	CIPP	DOUGLAS CREEK	04/09/14
WW.132311	2583379	8	354	CIPP	DOUGLAS CREEK	04/09/14
WW.150917	1689486	8	403	CIPP	SPRING CREEK	04/11/14
WW.140515	2047300	8	155	CIPP	TEMPLETON GAP	04/11/14
WW.140539	2048076	8	186	CIPP	TEMPLETON GAP	04/15/14
WW.154068	2048070	8	402	CIPP	TEMPLETON GAP	04/15/14
WW.161037	2578666	8	403	CIPP	UPPER SAND CREEK	04/16/14
WW.161459	2696000	8	168	CIPP	SOUTH TEJON	04/16/14
WW.149553	2578654	8	309	CIPP	PATTY JEWETT	04/17/14
WW.158992	2630219	8	400	CIPP	UPPER SAND CREEK	04/17/14
WW.157286	1928094	8	209	CIPP	TEMPLETON GAP	04/21/14
WW.140506	258009	8	180	CIPP	TEMPLETON GAP	05/05/14
WW.139803	2579791	8	303	CIPP	TEMPLETON GAP	05/05/14
WW.139756	1856825	8	340	CIPP	SPRING CREEK	05/06/14
WW.150505	2578653	8	190	CIPP	PATTY JEWETT	05/07/14
WW.142742	2139312	8	220	CIPP	PATTY JEWETT	05/07/14
WW.157287	1928099	8	103	CIPP	TEMPLETON GAP	05/08/14
WW.147183	1928103	8	248	CIPP	TEMPLETON GAP	05/08/14
WW.139387	1856811	8	287	CIPP	SPRING CREEK	05/09/14
WW.147185	1919867	8	294	CIPP	TEMPLETON GAP	05/13/14
WW.163398	1919938	8	280	CIPP	TEMPLETON GAP	05/13/14
WW.136812	1928111	8	297	CIPP	TEMPLETON GAP	05/14/14
WW.155179	1928116	8	331	CIPP	TEMPLETON GAP	05/14/14
WW.133725	1928048	8	238	CIPP	TEMPLETON GAP	05/19/14
WW.153204	1918366	8	296	CIPP	TEMPLETON GAP	05/19/14
WW.161008	2052487	8	372	CIPP	TEMPLETON GAP	05/20/14
WW.158990	2630218	8	431	CIPP	UPPER SAND CREEK	05/20/14
WW.144730	2630208	8	330	CIPP	UPPER SAND CREEK	05/21/14
WW.135629	2630196	8	417	CIPP	UPPER SAND CREEK	05/21/14
WW.142698	2630207	8	418	CIPP	UPPER SAND CREEK	05/21/14
WW.142637	2630206	8	407	CIPP	UPPER SAND CREEK	05/22/14
WW.150051	2630212	8	414	CIPP	UPPER SAND CREEK	05/22/14
WW.150891	2630216	8	404	CIPP	UPPER SAND CREEK	05/23/14
WW.156997	2630217	8	403	CIPP	UPPER SAND CREEK	05/23/14
WW.150519	2726536	8	186	CIPP	MESA VALLEY	05/27/14
WW.140244	2726534	8	174	CIPP	MESA VALLEY	05/27/14
WW.147485	2726519	8	200	CIPP	CRAGMOOR	05/27/14
WW.164258	2726529	8	475	CIPP	WEST SIDE	05/28/14
WW.162078	2726521	8	403	CIPP	LOWER SAND CREEK	05/28/14
WW.135132	2726522	8	130	CIPP	LOWER SAND CREEK	05/28/14
WW.162080	2726523	8	155	CIPP	LOWER SAND CREEK	05/28/14
WW.139170	2726531	8	424	CIPP	CRAGMOOR	05/29/14
WW.159677	2726530	8	297	CIPP	CRAGMOOR	05/29/14
WW.140604	2630202	8	320	CIPP	UPPER SAND CREEK	06/03/14
WW.136528	2630197	8	261	CIPP	UPPER SAND CREEK	06/03/14
WW.138586	2630199	8	384	CIPP	UPPER SAND CREEK	06/04/14
WW.148882	2630106	8	259	CIPP	UPPER SAND CREEK	06/04/14
WW.142720	2630105	8	257	CIPP	UPPER SAND CREEK	06/05/14
WW.136542	2630108	8	300	CIPP	UPPER SAND CREEK	06/05/14



2014 LCERP Completion Table

CSU Location ID	Work Order #	DIAMETER (inches)	LENGTH (feet)	Assesment Description	Collection Basin Name	Date Complete
WW.138601	2630110	8	251	CIPP	UPPER SAND CREEK	06/05/14
WW.144825	2630115	8	331	CIPP	UPPER SAND CREEK	06/06/14
WW.136549	2630184	8	323	CIPP	UPPER SAND CREEK	06/09/14
WW.150910	2630191	8	352	CIPP	UPPER SAND CREEK	06/09/14
WW.161115	2630116	8	156	CIPP	UPPER SAND CREEK	06/10/14
WW.142721	2630140	8	292	CIPP	UPPER SAND CREEK	06/10/14
WW.159495	2678094	8	155	CIPP	SOUTH TEJON	06/10/14
WW.159053	2630221	8	273	CIPP	UPPER SAND CREEK	06/11/14
WW.141008	2678135	8	283	CIPP	SOUTH TEJON	06/11/14
WW.136546	2630189	8	311	CIPP	UPPER SAND CREEK	06/12/14
WW.149299	2678119	8	362	CIPP	SOUTH TEJON	06/17/14
WW.149506	2678118	8	400	CIPP	NORTH SUBURBAN	06/17/14
WW.150896	2678117	8	405	CIPP	UPPER SAND CREEK	06/18/14
WW.150904	2678115	8	127	CIPP	UPPER SAND CREEK	06/18/14
WW.151476	2678113	8	132	CIPP	NORTH SUBURBAN	06/18/14
WW.155240	2678107	8	135	CIPP	SOUTH TEJON	06/18/14
WW.157012	2678104	8	68	CIPP	UPPER SAND CREEK	06/18/14
WW.154911	2678112	8	326	CIPP	UPPER SAND CREEK	06/19/14
WW.154912	2678111	8	436	CIPP	UPPER SAND CREEK	06/19/14
WW.162308	2678089	8	175	CIPP	UPPER SAND CREEK	06/20/14
WW.163129	2678084	8	120	CIPP	UPPER SAND CREEK	06/20/14
WW.154913	2678108	8	367	CIPP	UPPER SAND CREEK	06/23/14
WW.157520	2678103	8	100	CIPP	NORTH SUBURBAN	06/23/14
WW.161132	2710112	8	401	CIPP	UPPER SAND CREEK	06/24/14
WW.154939	2709949	8	193	CIPP	UPPER SAND CREEK	06/24/14
WW.164056	2700424	8	273	CIPP	SPRING CREEK	06/25/14
WW.135019	2700430	8	141	CIPP	SPRING CREEK	06/25/14
WW.151814	2700435	8	70	CIPP	SPRING CREEK	06/25/14
WW.144751	2696001	8	400	CIPP	UPPER SAND CREEK	06/26/14
WW.148820	2696006	8	406	CIPP	UPPER SAND CREEK	06/26/14
WW.153806	2700429	8	83	CIPP	SPRING CREEK	06/27/14
WW.153804	2695978	8	139	CIPP	SPRING CREEK	06/27/14
WW.141563	2700436	8	101	CIPP	SPRING CREEK	06/27/14
WW.143652	2695986	8	96	CIPP	SPRING CREEK	06/27/14
WW.156942	2696004	8	293	CIPP	UPPER SAND CREEK	07/14/14
WW.133088	2696009	8	136	CIPP	UPPER SAND CREEK	07/14/14
WW.146833	2696011	8	244	CIPP	UPPER SAND CREEK	07/14/14
WW.161055	2696008	8	292	CIPP	UPPER SAND CREEK	07/15/14
WW.138542	2696007	8	100	CIPP	UPPER SAND CREEK	07/15/14
WW.150846	2696010	8	204	CIPP	UPPER SAND CREEK	07/15/14
WW.161058	2696012	8	164	CIPP	UPPER SAND CREEK	07/15/14
WW.139495	2695045	8	301	CIPP	SPRING CREEK	07/16/14
WW.141574	2695947	8	258	CIPP	SPRING CREEK	07/16/14
WW.139486	2695958	8	436	CIPP	SPRING CREEK	07/17/14
WW.151795	2695992	8	401	CIPP	SPRING CREEK	09/02/14
WW.147815	2695989	8	403	CIPP	SPRING CREEK	09/03/14
WW.143636	2695994	8	219	CIPP	SPRING CREEK	09/04/14
WW.135016	2700425	8	84	CIPP	SPRING CREEK	09/04/14
WW.159983	2700426	8	93	CIPP	SPRING CREEK	09/04/14
WW.139490	2700427	8	101	CIPP	SPRING CREEK	09/04/14
WW.151811	2700423	8	173	CIPP	SPRING CREEK	09/04/14
WW.161394	2750773	8	270	Replacement	BOTT	09/07/14
WW.138882	2750765	8	322	CIPP	BOTT	09/08/14
WW.140918	2750797	8	304	CIPP	BOTT	09/09/14

2014 LCERP Completion Table

CSU Location ID	Work Order #	DIAMETER (inches)	LENGTH (feet)	Assesment Description	Collection Basin Name	Date Complete
WW.151186	2750750	8	521	CIPP	BOTT	09/09/14
WW.161393	2750813	8	296	CIPP	BOTT	09/09/14
WW.136834	2750796	8	417	CIPP	BOTT	09/10/14
WW.136844	2750746	8	450	CIPP	BOTT	09/10/14
WW.154101	2750761	8	560	CIPP	BOTT	09/12/14
WW.157313	2750811	8	149	CIPP	BOTT	09/12/14
WW.133772	2750751	8	558	CIPP	BOTT	09/15/14
WW.157031	2709954	8	400	CIPP	UPPER SAND CREEK	09/18/14
WW.142747	2710114	8	309	CIPP	UPPER SAND CREEK	09/19/14
WW.133255	2710115	8	153	CIPP	UPPER SAND CREEK	09/19/14
WW.144858	2709936	8	129	CIPP	UPPER SAND CREEK	09/22/14
WW.133257	2709896	8	345	CIPP	UPPER SAND CREEK	09/22/14
WW.154943	2709951	8	252	CIPP	UPPER SAND CREEK	09/23/14
WW.133258	2709898	8	343	CIPP	UPPER SAND CREEK	09/23/14
WW.144857	2709933	8	229	CIPP	UPPER SAND CREEK	10/06/14
WW.157036	2710072	8	278	CIPP	UPPER SAND CREEK	10/07/14
WW.140653	2710074	8	147	CIPP	UPPER SAND CREEK	10/07/14
WW.154941	2710077	8	91	CIPP	UPPER SAND CREEK	10/08/14
WW.142750	2710073	8	204	CIPP	UPPER SAND CREEK	10/08/14
WW.152940	2709947	8	291	CIPP	UPPER SAND CREEK	10/08/14
WW.138627	2710071	8	200	CIPP	UPPER SAND CREEK	10/09/14
WW.161133	2709959	8	173	CIPP	UPPER SAND CREEK	10/10/14
WW.163158	2709961	8	128	CIPP	UPPER SAND CREEK	10/10/14
WW.133254	2709895	8	209	CIPP	UPPER SAND CREEK	10/10/14
WW.193504	2710113	8	182	CIPP	UPPER SAND CREEK	10/13/14
WW.142748	2709932	8	311	CIPP	UPPER SAND CREEK	10/14/14
WW.136566	2709927	8	389	CIPP	UPPER SAND CREEK	10/14/14
WW.146929	2709938	8	342	CIPP	UPPER SAND CREEK	10/15/14
WW.161136	2709960	8	370	CIPP	UPPER SAND CREEK	10/15/14
WW.163160	2709963	8	386	CIPP	UPPER SAND CREEK	10/16/14
WW.146931	2709939	8	199	CIPP	UPPER SAND CREEK	10/17/14
WW.158347	2750771	8	438	CIPP	BOTT	10/20/14
WW.149196	2750831	8	223	CIPP	BOTT	10/21/14
WW.150130	2750772	8	502	CIPP	BOTT	10/21/14
WW.138876	2750832	8	169	CIPP	BOTT	10/21/14
WW.155211	2750802	8	449	CIPP	BOTT	10/23/14
WW.151985	2750779	8	183	CIPP	BOTT	10/24/14
WW.136842	2750789	8	527	CIPP	BOTT	10/27/14
WW.153217	2750791	8	86	CIPP	BOTT	10/27/14
WW.164245	2750809	8	317	CIPP	BOTT	10/30/14
WW.138879	2750795	8	412	CIPP	BOTT	11/03/14
WW.136832	2750792	8	334	CIPP	BOTT	11/18/14
WW.149195	2750745	8	604	CIPP	BOTT	11/19/14
WW.163809	2750828	8	249	CIPP	PATTY JEWETT	11/24/14
WW.144860	2709937	8	399	CIPP	UPPER SAND CREEK	11/24/14
WW.157039	2709956	8	115	CIPP	UPPER SAND CREEK	11/24/14
WW.154945	2710102	8	341	CIPP	UPPER SAND CREEK	11/25/14
WW.138638	2709928	8	161	CIPP	UPPER SAND CREEK	11/25/14
WW.140656	2710075	8	99	CIPP	UPPER SAND CREEK	11/26/14
WW.142760	2710079	8	155	CIPP	UPPER SAND CREEK	12/01/14
WW.161141	2710094	8	224	CIPP	UPPER SAND CREEK	12/01/14
WW.148918	2710105	8	302	CIPP	UPPER SAND CREEK	12/01/14
WW.138878	2750833	8	269	CIPP	BOTT	12/01/14
WW.152955	2710099	8	340	CIPP	UPPER SAND CREEK	12/02/14

2014 LCERP Completion Table

CSU Location ID	Work Order #	DIAMETER (inches)	LENGTH (feet)	Assesment Description	Collection Basin Name	Date Complete
WW.133282	2710107	8	178	CIPP	UPPER SAND CREEK	12/02/14
WW.147210	2750803	8	287	CIPP	BOTT	12/02/14
WW.153216	2750777	8	183	Replacement	BOTT	12/02/14
WW.152956	2710100	8	280	CIPP	UPPER SAND CREEK	12/03/14
WW.140665	2710081	8	281	CIPP	UPPER SAND CREEK	12/03/14
WW.140655	2710080	8	49	CIPP	UPPER SAND CREEK	12/04/14
WW.150930	2709946	8	422	CIPP	UPPER SAND CREEK	12/04/14
WW.173429	2750801	8	237	CIPP	BOTT	12/04/14
WW.163426	2750800	8	416	CIPP	BOTT	12/04/14
WW.159082	2710090	8	254	CIPP	UPPER SAND CREEK	12/05/14
WW.157038	2710089	8	122	CIPP	UPPER SAND CREEK	12/05/14
WW.133260	2710106	8	164	CIPP	UPPER SAND CREEK	12/05/14
WW.147196	2750782	8	141	Replacement	BOTT	12/05/14
WW.152939	2710098	8	330	CIPP	UPPER SAND CREEK	12/06/14
WW.150931	2710095	8	199	CIPP	UPPER SAND CREEK	12/06/14
WW.136839	2750834	8	181	CIPP	BOTT	12/08/14
WW.159386	2750778	8	191	CIPP	BOTT	12/08/14
WW.161406	2750804	8	412	CIPP	BOTT	12/08/14
WW.150932	2710097	8	133	CIPP	UPPER SAND CREEK	12/09/14
WW.163163	2710087	8	399	CIPP	UPPER SAND CREEK	12/09/14
WW.147201	2750762	8	549	CIPP	BOTT	12/09/14
WW.149209	2750788	8	402	CIPP	BOTT	12/10/14
WW.140928	2750749	8	194	CIPP	BOTT	12/10/14
WW.151205	2750775	8	278	CIPP	BOTT	12/11/14
WW.140943	2750826	8	335	CIPP	BOTT	12/11/14
WW.133775	2750763	8	402	CIPP	BOTT	12/12/14
WW.155206	2750776	8	135	CIPP	BOTT	12/12/14
WW.154985	2750825	8	325	CIPP	BOTT	12/12/14
WW.163425	2750836	8	332	CIPP	BOTT	12/14/14
WW.133780	2750817	8	359	CIPP	BOTT	12/15/14
WW.155200	2750766	8	251	CIPP	BOTT	12/15/14
WW.163421	2750783	8	188	Replacement	BOTT	12/15/14
WW.163423	2750793	8	387	CIPP	BOTT	12/15/14
WW.159379	2750767	8	373	CIPP	BOTT	12/17/14
WW.155201	2750794	8	376	CIPP	BOTT	12/18/14
WW.159377	2750781	8	376	CIPP	BOTT	12/23/14
WW.139176	2708119	8	253	Replacement	CRAGMOOR	12/23/14
WW.139255	2708120	6	173	Replacement	SHOOKS RUN	12/23/14
WW.153577	2708121	6	185	Replacement	SHOOKS RUN	12/23/14
WW.164435	2750742	8	562	CIPP	BOTT	12/30/14
WW.157034	2709955	8	238	CIPP	UPPER SAND CREEK	10/16/14
<b>Totals</b>	<b>257</b>		<b>70,286</b>			

## **Appendix B**

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**2014 - Manhole Evaluation and Rehabilitation Project**

<b>Manhole Evaluation and Rehabilitation Project</b>				
<b>CSU Location ID #</b>	<b>Work Order #</b>	<b>Diameter (feet)</b>	<b>Depth (feet)</b>	<b>Date Complete</b>
WW.115493	2712015	4	6.5	5/20/2014
WW.115494	2712014	4	7.0	5/20/2014
WW.100535	2737623	4	6.5	6/24/2014
WW.118130	2737624	4	6.0	6/24/2014
WW.120105	2737621	4	6.0	6/25/2014
WW.122022	2737622	4	9.5	6/25/2014
WW.126119	2737626	4	4.0	6/26/2014
WW.126121	2737627	4	5.0	6/26/2014
WW.128124	2737625	4	5.0	6/27/2014
WW.107579	2744731	6	12.5	7/14/2014
WW.125544	2744733	4	10.5	7/14/2014
WW.131574	2744732	4	10.5	7/14/2014
WW.107037	2744737	4	7.0	7/15/2014
WW.111035	2744738	4	11.0	7/15/2014
WW.115097	2744736	4	10.0	7/16/2014
WW.119012	2744740	4	5.0	7/16/2014
WW.124995	2744739	4	4.0	7/16/2014
WW.121687	2586275	4	10.8	7/24/2014
WW.131797	2586274	4	10.5	7/24/2014
WW.106885	2586276	4	8.3	7/28/2014
WW.105344	2748448	4	8.0	7/29/2014
WW.107347	2748445	4	9.0	7/29/2014
WW.107349	2748447	4	8.7	7/29/2014
WW.107390	2748467	4	10.5	8/1/2014
WW.113429	2748464	4	8.0	8/1/2014
WW.117415	2748456	4	7.5	8/1/2014
WW.125325	2748471	4	6.0	8/1/2014
WW.121340	2748457	4	8.5	8/4/2014
WW.129376	2748458	4	8.0	8/4/2014
WW.109402	2748451	4	7.5	8/5/2014
WW.119326	2748450	4	6.0	8/5/2014
WW.123313	2748469	4	8.0	8/5/2014
WW.125361	2748455	4	8.0	8/5/2014
WW.102951	2748465	4	5.0	8/12/2014
WW.109437	2748453	4	4.5	8/12/2014
WW.113426	2748461	4	9.0	8/12/2014
WW.125353	2748468	4	7*	8/12/2014
WW.127388	2748460	4	7.3	8/12/2014
WW.127388	2748460	4	7*	8/12/2014
WW.113444	2748470	4	7.0	8/14/2014
WW.119368	2748459	4	8.5	8/14/2014
WW.125323	2748476	4	7.3	8/14/2014
WW.129373	2748454	4	9.0	8/14/2014
WW.131379	2748474	4	8.0	8/14/2014
WW.107364	2748472	4	8.0	8/15/2014
WW.111347	2748479	4	5.7	8/15/2014

**2014 - Manhole Evaluation and Rehabilitation Project**

<b>Manhole Evaluation and Rehabilitation Project</b>				
<b>CSU Location ID #</b>	<b>Work Order #</b>	<b>Diameter (feet)</b>	<b>Depth (feet)</b>	<b>Date Complete</b>
WW.113446	2748475	4	6.5	8/15/2014
WW.121296	2748462	4	5.5	8/15/2014
WW.129328	2748473	4	6.0	8/15/2014
WW.102861	2748444	4	8.0	8/18/2014
WW.113398	2748478	4	6.0	8/18/2014
WW.113399	2748436	4	8.0	8/18/2014
WW.102892	2748437	4	10.5	8/19/2014
WW.105367	2748438	4	11.0	8/19/2014
WW.113394	2748477	4	10.0	8/19/2014
WW.121295	2748440	4	9.5	8/19/2014
WW.115412	2748449	4	6.5	8/20/2014
WW.123266	2748433	4	13.5	8/20/2014
WW.125310	2748446	4	12.3	8/20/2014
WW.125314	2748432	4	7.0	8/20/2014
WW.131326	2748442	4	6.0	8/20/2014
WW.102857	2748441	4	8.0	8/21/2014
WW.109438	2748466	4	5.0	8/21/2014
WW.111373	2748463	4	6.0	8/21/2014
WW.117413	2748452	4	6.0	8/21/2014
WW.121282	2748439	4	7.0	8/21/2014
WW.127379	2748443	4	7.0	8/21/2014
WW.118922	2761687	4	9*	8/22/2014
WW.102082	2761689	4	5*	8/22/2014
WW.122835	2761682	4	4*	8/22/2014
WW.117000	2761681	4	6.0	8/22/2014
WW.102096	2761690	4	7*	8/22/2014
WW.130935	2761688	4	11.5*	8/25/2014
WW.122829	2761725	4	8*	8/25/2014
WW.130932	2766670	4	8.5*	8/25/2014
WW.117036	2761706	4	9*	8/26/2014
WW.117034	2761708	4	10.8*	8/26/2014
WW.120932	2761700	4	9*	8/26/2014
WW.128948	2761701	4	9.2	8/26/2014
WW.106953	2761686	4	10*	8/27/2014
WW.128947	2761704	4	10*	8/27/2014
WW.118956	2761705	4	9*	8/27/2014
WW.115009	2761685	4	9*	8/27/2014
WW.130958	2761703	4	8*	8/27/2014
WW.117035	2761702	4	8*	8/27/2014
WW.124942	2761709	4	10.8*	8/28/2014
WW.120892	2761721	4	6.0	8/28/2014
WW.104952	2761720	4	12.3	8/28/2014
WW.124905	2761717	4	7*	8/28/2014
WW.112994	2761722	4	5*	8/28/2014
WW.113027	2761684	4	9.2*	8/28/2014

**2014 - Manhole Evaluation and Rehabilitation Project**

<b>Manhole Evaluation and Rehabilitation Project</b>				
<b>CSU Location ID #</b>	<b>Work Order #</b>	<b>Diameter (feet)</b>	<b>Depth (feet)</b>	<b>Date Complete</b>
WW.130960	2761699	4	8.5*	8/28/2014
WW.128949	2761710	4	8*	8/29/2014
WW.115039	2761713	4	5*	8/29/2014
WW.124940	2761712	4	5.5*	8/29/2014
WW.118957	2761711	4	5*	8/29/2014
WW.124939	2761698	4	5.5	8/29/2014
WW.106978	2761707	4	8*	9/3/2014
WW.110993	2761727	4	5*	9/3/2014
WW.102147	2761718	4	5*	9/3/2014
WW.122872	2761714	4	10*	9/3/2014
WW.110985	2761697	4	7*	9/3/2014
WW.112997	2761724	4	7*	9/4/2014
WW.130926	2761729	4	5*	9/4/2014
WW.102145	2761693	4	9.2*	9/4/2014
WW.124937	2761694	4	8.5*	9/4/2014
WW.115006	2761730	4	6.0	9/4/2014
WW.112996	2761728	4	6.2*	9/4/2014
WW.131348	2723989	4	9.2*	9/5/2014
WW.167503	2723990	4	10.5*	9/5/2014
WW.113827	2737636	4	5*	9/5/2014
WW.111805	2737637	4	6*	9/5/2014
WW.111806	2737639	4	4*	9/5/2014
WW.103819	2737638	4	4.0	9/5/2014
WW.126957	2761734	4	6*	9/8/2014
WW.126958	2761733	4	6*	9/8/2014
WW.124906	2761726	4	11.6*	9/8/2014
WW.120895	2761723	4	6.5*	9/8/2014
WW.118921	2761696	4	9*	9/9/2014
WW.115007	2761695	4	7*	9/9/2014
WW.106987	2761736	4	6.2*	9/10/2014
WW.106952	2761691	4	9.2*	9/10/2014
WW.122836	2761716	4	10*	9/10/2014
WW.128910	2761692	4	8*	9/15/2014
WW.128903	2768940	4	7.8*	9/15/2014
WW.126982	2768960	4	10*	9/15/2014
WW.120923	2768958	4	11.6*	9/15/2014
WW.113015	2768939	4	11.5*	9/15/2014
WW.124908	2761715	4	10.8*	9/16/2014
WW.124892	2768941	4	8.5*	9/16/2014
WW.126983	2768961	4	7*	9/16/2014
WW.108970	2768955	4	7*	9/16/2014
WW.104945	2768956	4	8.0	9/16/2014
WW.102130	2768943	4	7*	9/17/2014

**2014 - Manhole Evaluation and Rehabilitation Project**

<b>Manhole Evaluation and Rehabilitation Project</b>				
<b>CSU Location ID #</b>	<b>Work Order #</b>	<b>Diameter (feet)</b>	<b>Depth (feet)</b>	<b>Date Complete</b>
WW.126984	2768963	4	9.2*	9/17/2014
WW.130945	2768962	4	9.2*	9/17/2014
WW.117022	2768942	4	8*	9/17/2014
WW.113017	2768948	4	7*	10/13/2014
WW.128935	2768946	4	8*	10/13/2014
WW.113018	2768944	4	7.5*	10/13/2014
WW.130947	2768947	4	8*	10/13/2014
WW.102132	2768945	4	7*	10/13/2014
WW.118949	2768949	4	8*	10/27/2014
WW.126987	2768953	4	8*	10/29/2014
WW.109001	2768951	4	9*	10/29/2014
WW.113022	2768950	4	9.2*	10/29/2014
WW.196766	2768964	4		10/29/2014
WW.130916	2768957	4	6*	10/30/2014
WW.108988	2775108	4	6.2*	10/30/2014
WW.102118	2775109	4	8*	10/30/2014
WW.102166	2775104	4	4*	10/31/2014
WW.113032	2775111	4	8*	10/31/2014
WW.124945	2775105	4	18.5*	11/4/2014
WW.127002	2775107	4	9.2*	11/6/2014
WW.110996	2775106	4	6.2*	11/6/2014
WW.109015	2775110	4	10.5*	11/7/2014
WW.131562	2775083	4	2.3*	11/7/2014
WW.102578	2821937	4	7.0	11/20/2014
WW.113246	2821544	4	7.5	11/20/2014
WW.109248	2821939	5	7.5	11/21/2014
WW.131188	2821943	4	8.0	11/21/2014
WW.105211	2821942	5	7.0	11/25/2014
WW.111200	2821941	5	7.0	11/25/2014
WW.101983	2821947	4	5.7	11/26/2014
WW.130062	2821944	4	12.0	11/26/2014
WW.101988	2821946	4	6.0	12/4/2014
WW.108931	2821949	4	7.7	12/4/2014
WW.118857	2821948	4	7.0	12/5/2014
WW.119675	2821945	4	10.0	12/5/2014
Not Labeled-New Manhole	2785535	4		12/11/2014
WW.112941	2686701	4		5/6/2014
<b>Total</b>	<b>171</b>			



## Appendix C

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2014 SSCC Completion Table

<b>Project</b>	<b>Task Order #</b>	<b>Notice to Proceed</b>	<b>Final Completion</b>	<b>Total Cost</b>
Cottonwood Creek at La Madrina	201316944	11/14/2013	5/29/2014	\$ 684,758
Sand Creek at Galley	201304370	2/18/2014	6/30/2014	\$ 1,273,051
Cottonwood Creek Sanitary Sewer& Stream Stabilization	201311458	8/12/2013	8/1/2014	\$ 1,195,875
Glen Eyrie Sanitary Sewer Realignment	201410213	7/10/2014	8/15/2014	\$ 149,868
<b>Totals</b>	<b>4</b>			<b>\$ 3,303,553</b>

**RESOLUTION NO. P&D 16- 007**

**THE BOARD OF COUNTY COMMISSIONERS  
OF PUEBLO COUNTY, COLORADO**

**CONCERNING COMPLIANCE BY COLORADO SPRINGS UTILITIES WITH  
CERTAIN TERMS AND CONDITIONS OF 1041 PERMIT NO. 2008-002 REQUIRING  
THE RECLAMATION OF DISTURBED LANDS**

**WHEREAS**, the Board of County Commissioners (“Board”) held a hearing conducted over several days to consider compliance by the Permit Applicant, Colorado Springs Utilities, with those terms and conditions of 1041 Permit No. 2008-002 requiring the reclamation of disturbed lands, and having considered the testimony and the documentary evidence submitted, does hereby find and conclude as is hereinafter set forth:

1. On April 21, 2009 the Board adopted Resolution No. P&D 09-22 (“Resolution”) approving 1041 Permit No. 2008-002 (“Permit”) with terms and conditions for construction and use of a municipal water project known as the Southern Delivery System (SDS) within Pueblo County, Colorado. Two of the principle features of the SDS project in Pueblo County are the Juniper Pump Station and the SDS pipeline. The Juniper Pump Station includes an approximately 14,000 square foot, 42 foot high building with auxiliary power facilities and a parking lot in addition to the pumping equipment and facilities. The pumping station is located on land leased from the United States Bureau of Reclamation. The SDS pipeline is a 66 inch diameter raw water pipeline which runs from the Juniper Pump Station north through Pueblo County for approximately 20 miles to the southern boundary of El Paso County.
2. The Applicant for the Permit, Colorado Springs Utilities (CSU) is an enterprise owned and operated by the City of Colorado Springs. CSU is the project manager charged with the responsibility to oversee the permitting, construction, and operation of the SDS project pursuant to an agreement with the other project partners, the City of Fountain, the Security Water District, and the Pueblo West Metropolitan District.
3. The Permit was issued on the basis and terms of twenty-nine (29) findings set forth in the Resolution and was further based upon the Record made at the public hearings on the Permit application. Approval of the Permit was also made subject to thirty (30) general terms, conditions, and commitments, together with a detailed description concerning those terms, conditions, and commitments contained in a Mitigation Appendix which was incorporated into the approving Resolution by reference.
4. Permit Condition No. 25: Compliance, Monitoring, and Reporting provides in full as follows:

Applicant shall monitor and periodically report to Pueblo County on its compliance with this Permit. During project construction in Pueblo County, Applicant will submit a quarterly report to Pueblo County summarizing the activities during that period, forecasting activities scheduled for the upcoming period, and addressing compliance with the terms and conditions of the Permit. After commencing deliveries of water through the SDS pipeline, Applicant shall submit annual reports to Pueblo County summarizing its activities related to the SDS Project, the Permit, and addressing compliance with the terms and conditions

## RESOLUTION NO. P&D 16-007 (CONTINUED)

of the Permit. Pueblo County may, at its discretion, hold public reviews of the reports and Permit compliance, including hearings in accordance with its regulations. *See Mitigation Appendix ENF-1.*

CSU has monitored its construction and installation of the pipeline and related facilities and periodically reported to Pueblo County on its progress and compliance with the Permit. The periodic reports submitted by CSU have included considerable detail on its efforts and progress at restoring the lands in Pueblo County disturbed during construction of the pipeline.

5. Pursuant to Permit Condition No. 25, Pueblo County, at the direction of the Board of County Commissioners, held public hearings to review the reports and the status to date of compliance with the Permit terms and conditions related to reclamation and revegetation of lands in Pueblo County disturbed during construction of the pipeline. The principal Permit Condition concerning these matters is Condition No. 22, Reclamation of Disturbed Lands. It reads in full as follows:

Applicant shall conduct a preconstruction evaluation of existing vegetation to be disturbed during construction of the SDS Project within Pueblo County. Upon reclamation of the site, the vegetation cover shall be of the same seasonal variety native to the area of the disturbed land, or a reasonable substitute pursuant to agreement with the landowner. The revegetated area will be considered acceptable if its cover will not be less than 90 percent of the pre-construction vegetation cover with similar species diversity. Applicant shall provide to Pueblo county a security bond equal to \$2,000/acre of land in permanent or temporary construction easement in each work package. The security bond shall be released upon establishing 90 percent of pre-construction vegetation cover on the impacted land segment. *See Mitigation Appendix C-9.*

The referenced provision of Mitigation Appendix C-9 provides:

“Applicant shall provide Pueblo County residents with replacement vegetation and property to match pre-construction conditions or better.”

The Project Details accompanying this provision provide, in pertinent parts, that the Applicant is required to:

1. Grade disturbed areas to pre-construction contours so pre-construction drainage paths are reestablished.
2. Reclaim disturbed land, except water areas and surface areas of roads, by seeding or planting to achieve a permanent vegetation cover as specified below.
  - a. In accordance with Construction Condition C-5, a pre-construction evaluation of existing vegetation will be conducted to determine species diversity, woody plant density, and seasonal variety.

**RESOLUTION NO. P&D 16-007 (CONTINUED)**

b. Vegetation Cover will be of the same seasonal variety native to the area of disturbed land, or species that support the post-construction land use. In those areas of disturbed vegetation where such seeds are not commercially available, seeds will be collected on site to be used in revegetation, including, rare plants identified in the FEIS by the Colorado Natural Heritage Program or by other qualified investigators.

c. Seeding and planting of disturbed areas will be conducted during the first normal period for favorable planting conditions after final preparation for seeding or planting.

d. Soil stabilization practices will be used on all regraded and topsoiled areas.

e. The revegetated area will be considered acceptable if the revegetated area cover is not less than 90 percent of the pre-construction vegetation cover with the similar species diversity. The pipeline access road will not be included in the 90 percent coverage calculation.

...

6. Provide Pueblo County a security bond equal to \$2,000 per acre of land in permanent or temporary construction easement in each work package. The security bond shall be released in full to the Applicant two years following the final completion of the construction contract, upon successful revegetation, as described above. If successful revegetation is not achieved, the security bond will be forfeited in the amount of \$2,000 for each acre, or fraction of an acre, that has not been successfully revegetated.

Additionally, Permit Condition No. 28, Mitigation Appendix, provides in full as follows:

The provisions of that certain Mitigation Appendix previously referenced herein and attached hereto is hereby incorporated by this reference as though fully set forth. In the event of a conflict between the provisions of the Mitigation Appendix and the terms and conditions set forth in this Resolution, then the terms and conditions set forth in this Resolution shall prevail.

Applicant asserts that the conditions cited herein have been met and that completion of the project has been achieved and has requested Pueblo County to assess and determine compliance with the Permit conditions and to release the bonds.

6. The public hearing and deliberations of the Board on these matters commenced, pursuant to notice, on September 25, 2015, and was continued, successively, to October 19, 2015, December 8, 2015, December 21, 2015, December 28, 2015, January 11, 2016, and January 25, 2016. The notice consisted of two (2) successive notices published in the Pueblo Chieftain preceding the commencement of the hearing, written notice sent by certified mail to every landowner owning lands in Pueblo County subject to the easement for the SDS pipeline, posted notice in the rotunda

**RESOLUTION NO. P&D 16-007 (CONTINUED)**

of the Pueblo County Courthouse and posted notice displayed on the Pueblo County website prior to the commencement of the hearings and updated and displayed continuously to the present date.

7. Prior to taking final action, the Board posted Proposed Findings and Conclusions in the Courthouse rotunda, the Pueblo County Website, and made the same available to the Applicant and all interested citizens on January 12, 2016 and on January 25, 2016 the Board opened the matter for further comment and the hearing was concluded and the Board adopted Findings and Conclusions.

**NOW, THEREFORE BE IT RESOLVED** by the Board of County Commissioners of Pueblo County, Colorado, that based upon the documentary evidence and the testimony of interested parties and citizens presented at the hearing including, but not limited to, the written reports submitted by: 1) the Applicant, Colorado Springs Utilities (CSU); 2) Pueblo County staff from the Departments of Planning and Development and Engineering and Public Works; 3) the qualified revegetation experts retained by each of CSU and Pueblo County, and 4) the personal inspection of portions of the disturbed lands by members of the Board of County Commissioners as disclosed on the record, the Board concludes that:

**1. Juniper Pump Station.** In accordance with Permit Condition No. 21, Juniper Pump Station Architectural Review, Pueblo County has previously appointed its Director of the Department of Planning and Development (Director) who participated in the final selection of the architecture and landscaping for the Juniper Pump Station. The Director is hereby ordered to review the landscaping at the pump station for conformance with the previously reviewed plans and to report back to the Board on the status of the conformance of the approved plan. The review shall continue on a periodic basis until full conformance has been achieved.

**2. Pipeline Easement Segment Denoted as Pueblo Dam Connection 1A and 1B.** The terms and conditions of Permit Condition No. 22 and the related provisions and conditions set forth in Mitigation Appendix C-9 have, to the date of this Resolution, been met, to wit: The vegetation cover is not less than 90% of the pre-construction vegetation cover with similar species diversity; disturbed areas have been graded to pre-construction contours such that pre-construction drainage paths have been re-established or, pursuant to written agreements with landowners, reasonable substitutes therefor have been established.

Accordingly, the Board concludes that the revegetation bonds previously posted as security for the initial revegetation obligation by the Applicant, and more particularly described as:

a) Bond No. 105765206 for the easement at Pueblo Dam Connection 1A in the amount of \$2,000; and

b) Bond No. 105692964 for the easement at Pueblo Dam Connection 1B in the amount of \$12,000;

are, in accordance with the Board's conclusions stated on the record of this proceeding on December 28, 2015, hereby released.

**RESOLUTION NO. P&D 16-007 (CONTINUED)**

**3. Pipeline Easement Segment Denoted as S-1.** The terms and conditions of Permit Condition No. 22 and the related provisions and conditions set forth in Mitigation Appendix C-9 have, to the date of this Resolution, been met, to wit: The vegetation cover is not less than 90% of the pre-construction vegetation cover with similar species diversity; disturbed areas have been graded to pre-construction contours such that pre-construction drainage paths have been re-established or, pursuant to written agreements with landowners, reasonable substitutes therefor have been established.

Accordingly, the Board concludes that the revegetation bonds previously posted as security for the initial revegetation obligation by the Applicant, and more particularly described as:

- a) Bond No. 105692962 for the easement at S-1, Juniper Pump Station to Spaulding Ave., in the amount of \$205,000;

is, in accordance with the Board's conclusions stated on the record of this proceeding on December 28, 2015, hereby released.

**4. Pipeline Easement Segment Denoted as S-2.** The terms and conditions of Permit Condition No. 22 and the related provisions and conditions set forth in Mitigation Appendix C-9 have, to the date of this Resolution, been substantially met, to wit: Except as indicated below, the vegetation cover is not less than 90% of the pre-construction vegetation cover with similar species diversity; disturbed areas have been graded to pre-construction contours such that pre-construction drainage paths have been re-established or, pursuant to written agreements with landowners, reasonable substitutes therefor have been established.

Accordingly, the Board concludes that the revegetation bonds previously posted as security for the initial revegetation obligation by the Applicant, and more particularly described as:

- a) Bond No. 105692956 for the easement at S-2, Spaulding Ave. north to the northern boundary of the Pueblo West Metropolitan District, in the amount of \$157,000;

is, in accordance with the Board's conclusions stated on the record of this proceeding on December 28, 2015, hereby released.

Notwithstanding the foregoing, the Board finds that certain portions of the S-2 segment have been disturbed by the actions of a third party, Black Hills Energy. By letter dated December 11, 2015, Black Hills Energy has acknowledged the disturbance and stated its intention to address the same in a manner that restores the disturbed areas to the condition existing prior to the disturbance. The Director is ordered to inspect the disturbed areas and to report back to the Board on the status of the restoration.

As further regards a portion of the S-2 segment, the Board finds that in response to concerns expressed by Mr. Dwayne Maxwell about drainage that ran from a location off of the SDS easement and to and across the SDS pipeline easement and a trail established and maintained by the Pueblo West Metropolitan District upon that easement and resulted in gravel or other debris being deposited on the Maxwell property, CSU, in consultation with Mr. Maxwell, Pueblo

**RESOLUTION NO. P&D 16-007 (CONTINUED)**

County staff, and Pueblo West staff, undertook some remediation activities in the area of concern. The evidence of the activities was submitted into the record of this proceeding. To the extent that future rains and run-off over the course of the next 12 months demonstrates that such mitigation work is not adequate to prevent the trail erosion and the deposition of crushed rock or other such debris on the Maxwell Property, CSU shall, in consultation with the staffs of Pueblo County and Pueblo West, undertake such additional remedial measures as are reasonably necessary to protect the Maxwell Property from the impacts of such erosion.

As further regards a portion of the S-2 Segment, the Board finds that a portion of the easement at or near the intersection of the northern boundary of the Pueblo West Metropolitan District and the southern boundary of the Walker Ranches lies in part of a much larger drainage alluvial plain. The Pueblo West Metropolitan District is working to solve drainage issues at this location and, to the extent that the easement is involved, is working with CSU to address and remediate the drainage issues. The Director shall include, as part of its annual inspection of the pipeline easement, a report on the status of the efforts at this location.

**5. Pipeline Easement Segment Denoted as S-3.** The remaining section of the Pipeline Easement for the Southern Delivery System located in Pueblo County and commonly referred to and denoted by the parties as S-3, which segment runs from the Northern boundary of the Pueblo West Metro District North to the Southern boundary of El Paso County is located primarily on the lands of one land owner, Walker Ranches, LLP. Pueblo County staff, as part of its written reports on this matter, has submitted a copy of a document entitled "Confidential Settlement Agreement Between Walker Ranches, LLP. and Colorado Springs Utilities", dated and signed June 2015. Although the Agreement, by its express terms, requires continued compliance by CSU with Permit Condition No. 22, it also indicates actions concerning the reclamation of the land as agreed to by the parties which may preclude strict compliance with the Permit condition. Subsequently, in a written report submitted by CSU, the Board has been informed of an Amendment to Confidential Settlement Agreement, dated December 3, 2015 which, according to the report, provides:

Walker Ranches acknowledges the City's efforts in fulfilling the requirements of the Confidential Settlement Agreement, and in particular acknowledges that the City has met the reclamation and revegetation provisions in the Confidential Settlement Agreement and has met or exceeded the requirements of conditions 20 and 22 of the 1041 Permit as well as the provisions of the associated Mitigation Appendices. The Parties agree that the City may inform Pueblo County of this Recital.

The Board takes notice of the fact that Permit Condition No. 22 contemplated reasonable substitutes to the stated standards for the reclamation of disturbed lands pursuant to agreement with the land owner. The Board further takes notice that in certain other sections of the pipeline easement in Pueblo County, agreements with the land owners concerning reclamation of the disturbed land have called for reclamation different than that set forth in the permit standard and the Board has deferred to such agreements and found compliance with, and satisfaction of, the permit condition. Finally, the record of this proceeding will show that the Board was informed through the testimony of CSU representatives that Walker Ranches, LLP. has granted a Conservation Easement to the Nature Conservancy on a portion of its ranch which includes the



**RESOLUTION NO. P&D 16-007 (CONTINUED)**

land subject to the pipeline easement. The provisions of the Conservation Easement, presumably, are acceptable to both Walker Ranches, LLP. and the Nature Conservancy.

The terms and conditions of Permit Condition No. 22 and the related provisions and conditions set forth in Mitigation Appendix C-9 have, to the date of this Resolution, been substantially met, to wit: The disturbed areas have been graded to pre-construction contours such that pre-construction drainage paths have been re-established or, pursuant to written agreements with landowners, reasonable substitutes therefor have been established; The vegetation cover in areas that have not otherwise been disturbed pursuant to written agreements with the land owner is not less than 90% of the pre-construction vegetation cover with similar species diversity, and those areas that have been disturbed pursuant to written agreements with land owner are in the process of meeting the related provisions and conditions.

Accordingly, the Board concludes that the revegetation bond previously posted by the Applicant as security for the initial revegetation obligation by the Applicant, and more particularly described as:

- a) Bond No. 105692963 for the easement at S-3, from the Northern Boundary of the Pueblo West Metropolitan District north to the Southern Boundary of El Paso County, in the amount of \$298,000;

is, in accordance with the Board's conclusions stated on the record of this proceeding on December 28, 2015, hereby released.


6. The Board further concludes that the Revegetation Bonds as required by the Permit and previously referenced in these findings and conclusions were security for the obligations concerning revegetation in the permit and were, and are, not a substitute for the revegetation obligation itself. Accordingly, the obligations of the permit concerning annual reporting by CSU and maintenance of the permanent revegetation standard set forth in Permit Condition No. 22 and Mitigation Appendix C-9 are continuing and not released or extinguished through the release of the bonds. Based upon the testimony and the reports submitted by the revegetation experts and upon the additional reports submitted by CSU and Pueblo County staff, the Board finds that the revegetation, having initially achieved the 90% threshold, is intended, in the future, to respond to natural precipitation and climatic conditions in much the same manner as will the adjacent lands which were used in setting the revegetation standard in the first instance. However, the Board further finds that only the passage of time will tell whether this intended restoration will, in fact, occur. The Board is also mindful of the fact that the owners of the lands across which the easement runs may, through agreements with CSU or of their own volition, take actions on the land which are not consistent with the revegetation standard. The Permit contemplates this possibility and the Board will accommodate the same as they arise. However, the revegetation standard set forth in Permit Condition No. 22 and Mitigation Appendix C-9 stands and continues throughout the life of the permit.

**RESOLUTION NO. P&D 16-007 (CONTINUED)**

7. Pursuant to the express provisions of Permit Condition No. 25, CSU shall address in its required annual report continued compliance with the provisions of Permit Condition No. 22. In addition, the Director is ordered, as part of its review of the CSU annual report, to inspect the easement and report its opinion of continued compliance with permit Condition No. 22.

**PASSED AND ADOPTED** this 1<sup>st</sup> day of February 2016, in Pueblo County, Colorado.

**THE BOARD OF COUNTY COMMISSIONERS  
OF PUEBLO COUNTY, COLORADO**

By:   
Liane "Buffie" McFadyen, Chair

**ATTEST:**

By:   
Gilbert Ortiz, County Clerk





January 31, 2017

Michael J. Ryan  
Regional Director  
Great Plains Regional Office  
Bureau of Reclamation  
P.O. Box 36900  
Billings, MT 59107-6900



Subject: Southern Delivery System Permit Compliance Annual Report (Calendar Year 2016)

Mr. Ryan:

Colorado Springs Utilities, the Southern Delivery System (SDS) Project Manager, hereby submits the attached Permit Compliance Annual Report (PCAR) for Calendar Year 2016. This report demonstrates the SDS Project's progress in successfully implementing the commitments prescribed in the SDS Record of Decision (ROD), Reference No.: GP-2009-01, as well as meeting the annual reporting requirements for other programmatic permits and approvals.

Due to SDS becoming operational in April 2016, this report addresses compliance for both construction and operational activities associated with the project. Applicable compliance activities associated with Phase II planning and design will be incorporated into future PCARs; however, until Phase II enters the construction phase, all future reports will focus on operational compliance.

I certify that, to the best of my knowledge, the content of this report is true and accurate. As noted herein, SDS has complied with all applicable permit requirements.

Please contact me at 719-668-8679, with any questions regarding the attached report.

Sincerely,

David Padgett  
Chief Environmental Officer

Enclosure

cc: City of Fountain, Curtis Mitchell, Director of Utilities  
Colorado Department of Public Health and Environment, Steven Gunderson, Director,  
Water Quality Control Division  
Colorado Parks and Wildlife, Dan Prenzlowl, Regional Manager, Southeast Region

Fountain Creek Watershed Flood Control and Greenway District, Larry Small, Executive Director

Pueblo County Planning & Development, Joan Armstrong, Director

Pueblo West Metropolitan District, Scott Eilert, Director of Utilities

Security Water and Sanitation District, Roy Heald, District Manager

U.S. Army Corps of Engineers, Antoinette Gant, Lieutenant Colonel, U.S. Army, District Commander

# **Southern Delivery System Permit Compliance Annual Report**

**Calendar Year 2016**

Prepared for:

**Bureau of Reclamation**

**Colorado Department of Public Health and  
Environment**

**Colorado Parks and Wildlife**

**El Paso County**

**Pueblo County**

**Fountain Creek Watershed, Flood Control, and  
Greenway District**

Submitted by:

**Colorado Springs Utilities, SDS Project Manager  
on behalf of the SDS Participants**

January 2017

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- 3 Water Quality Monitoring Data
- 4 Complaint Log
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# Acronyms and Abbreviations

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1041 Permit	Pueblo County 1041 Permit No. 2008-002
BMPs	Best Management Practices
CPW	Colorado Parks and Wildlife
CDPHE	Colorado Department of Public Health and Environment
CWC	Colorado Wildlife Commission
CWCB	Colorado Water Conservation Board
DSD	Development Services Department
EMS	Environmental Management System
FEIS	Final Environmental Impact Statement
FWMP	Fish and Wildlife Mitigation Plan
GMP	Geomorphic Mitigation Plan
IAMP	Integrated Adaptive Management Plan
mgd	million gallons per day
MP	Monitoring Plan
NEPA	National Environmental Policy Act
PCAR	Permit Compliance Annual Report
PDC	Pueblo Dam Connection
Reclamation	Bureau of Reclamation
ROD	Record of Decision
SCMP	Socioeconomic Construction Management Plan
SDS	Southern Delivery System Project
SDS Participants	City of Colorado Springs, City of Fountain, Security Water District, and Pueblo West Metropolitan District
USACE	United States Army Corps of Engineers
USGS	United States Geological Survey
UWCR	Upper Williams Creek Reservoir
WCR	Williams Creek Reservoir
WTP	water treatment plant

# Executive Summary

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The Southern Delivery System Project (SDS) is a regional water delivery system that serves the City of Colorado Springs (via Colorado Springs Utilities), City of Fountain, Security Water District, and Pueblo West Metropolitan District (collectively, the SDS Participants).

## Purpose

The purpose of the SDS Permit Compliance Annual Report (PCAR), submitted by Colorado Springs Utilities, the SDS Project Manager, is to demonstrate progress in successfully implementing the commitments as prescribed in the Record of Decision (ROD) to the Bureau of Reclamation (Reclamation). Colorado Springs Utilities also reviewed the other seven programmatic permits/approvals that are in place to identify the annual reporting requirements of each. The following five permits/approvals have annual reporting requirements addressed in this report:

- El Paso County Location Approvals
  - Planning Commission Resolution U-09-002, March 2, 2010, Southern Delivery System Raw Water Pipelines, Amended by Resolution U-12-001, October 18, 2012
  - Planning Commission Resolution U-09-003, March 2, 2010, Southern Delivery System Finished Water Pipelines, Amended by Resolution U-12-003, October 18, 2012
  - Planning Commission Resolution U-09-004, March 16, 2010, Southern Delivery System Bradley Pump Station
  - Planning Commission Resolution U-09-005, March 16, 2010, Southern Delivery System Upper Williams Creek Reservoir, Amended by Resolution U-12-002, October 18, 2012
  - Planning Commission Resolution U-09-007, March 16, 2010, Southern Delivery System Exchange Flow System, Amended by Resolution U-12-004, October 18, 2012
- El Paso County 1041 Permits
  - Development Services Department, File No. AASI-13-002, Southern Delivery System Finished Water Section 1C, Administratively Approved January 2, 2014
  - Development Services Department, File No. AASI-13-005, Southern Delivery System Finished Water Section 3, Administratively Approved January 29, 2014
  - Development Services Department, File No. AASI-14-001, Southern Delivery System Raw Water Pipeline Section S4AC, Administratively Approved February 18, 2014
- Pueblo County Board of County Commissioners Resolution No. P&D 09-22 approving 1041 Permit No. 2008-02, April 21, 2009



- Fountain Creek Watershed, Flood Control, and Greenway District (District) Resolution 2010-01, February 26, 2010
- Colorado Department of Public Health and Environment (CDPHE) 401 Certification No. 4224, April 23, 2010, which includes the requirement to provide copies of all other annual reports

The following two programmatic permits/approvals do not specifically include annual reporting requirements:

- Memorandum of Agreement with the State of Colorado, Department of Natural Resources on behalf of the Colorado Division of Wildlife regarding the Fish and Wildlife Mitigation Plan, May 18, 2010
- United States Army Corps of Engineers (USACE) Clean Water Act Section 404 Individual Permit No. SPA-2005-00131-SCO, April 26, 2010

## Reporting Requirements

The ROD requires annual reporting to summarize the SDS's progress made in implementing the ROD commitments. Colorado Springs Utilities has elected to develop a single SDS PCAR that addresses the ROD commitments and the other annual or periodic reporting requirements included in the programmatic permits/approvals that are listed above. As Phase I construction activities were completed in 2016, this is the final report documenting Phase I construction compliance. This report begins the transition to the operational and on-going commitments of SDS. Beginning in 2017, the focus of this report will be on commitments associated with project operations.

## Summary of SDS Activities During this Reporting Period

Construction of the water treatment plant and the raw water pump stations was completed during the reporting period. Startup and commissioning of the system was completed and SDS began operation in April 2016. Vegetation restoration efforts continued on the pipeline work packages. The 30% design of UWCR was completed.

Colorado Springs Utilities also continued identification of locations for wetland construction to mitigate the 12.0 acres of non-jurisdictional wetlands affected as a result of current and future SDS activities. On previously identified locations, construction was completed for a portion of this mitigation, while construction began on another area. In addition there was on-going effort to track compliance with programmatic permit/approval commitments and construction permit requirements.

## Future SDS Activities

Compliance monitoring will continue for on-going operational activities. Phase II activities include UWCR geotechnical investigations and a minor modification of the NEPA and cultural resource boundaries related to utility relocates associated with reservoir construction. No material changes from the project as described in the 2009 EIS have been made to the UWCR.

# 1.0 Introduction

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## 1.1 Purpose

The purpose of the SDS Permit Compliance Annual Report (PCAR), submitted by Colorado Springs Utilities as SDS Project Manager, is to demonstrate the progress in successfully implementing the commitments identified in the ROD (Reclamation 2009). This PCAR has been prepared to be consistent with the ROD and other permits issued by agencies having jurisdiction over SDS, specifically the following programmatic permits/approvals:

- Bureau of Reclamation Record of Decision for the Southern Delivery System Final Environmental Impact Statement, Record of Decision Reference No. GP-2009-01, March 20, 2009
- El Paso County Location Approvals
  - Planning Commission Resolution U-09-002, March 2, 2010, Southern Delivery System Raw Water Pipelines, Amended by Resolution U-12-001, October 18, 2012
  - Planning Commission Resolution U-09-003, March 2, 2010, Southern Delivery System Finished Water Pipelines, Amended by Resolution U-12-003, October 18, 2012
  - Planning Commission Resolution U-09-004, March 16, 2010, Southern Delivery System Bradley Pump Station
  - Planning Commission Resolution U-09-005, March 16, 2010, Southern Delivery System Upper Williams Creek Reservoir, Amended by Resolution U-12-002, October 18, 2012
  - Planning Commission Resolution U-09-007, March 16, 2010, Southern Delivery System Exchange Flow System, Amended by Resolution U-12-004, October 18, 2012
- El Paso County 1041 Permits
  - Development Services Department, File No. AASI-13-002, Southern Delivery System Finished Water Section 1C, Administratively Approved January 2, 2014
  - Development Services Department, File No. AASI-13-005, Southern Delivery System Finished Water Section 3, Administratively Approved January 29, 2014
  - Development Services Department, File No. AASI-14-001, Southern Delivery System Raw Water Pipeline Section S4AC, Administratively Approved February 18, 2014
- Pueblo County Board of County Commissioners Resolution No. P&D 09-22 approving 1041 Permit No. 2008-02, April 21, 2009
- Fountain Creek Watershed, Flood Control, and Greenway District (District) Resolution 2010-01, February 26, 2010

- Colorado Department of Public Health and Environment (CDPHE) 401 Certification No. 4224, April 23, 2010, which includes the requirement to provide copies of all other annual reports

Colorado Springs Utilities reviewed all eight of the programmatic permits/approvals that are in place to identify annual reporting requirements of each. The following two programmatic permits/approvals do not specifically include annual reporting requirements:

- Memorandum of Agreement with the State of Colorado, Department of Natural Resources on behalf of the Colorado Division of Wildlife regarding the Fish and Wildlife Mitigation Plan, May 18, 2010
- United States Army Corps of Engineers Clean Water Act Section 404 Individual Permit No. SPA-2005-00131-SCO, April 26, 2010

Colorado Springs Utilities prepared an Environmental Commitment Plan and developed a Phase I Environmental Management System (EMS) to track compliance with the commitments associated with all of the programmatic permits/approvals.

## 1.2 Southern Delivery System Project Overview

SDS is a regional water delivery project that serves the City of Colorado Springs (via Colorado Springs Utilities), City of Fountain, Security Water District, and Pueblo West Metropolitan District (collectively, the SDS Participants).

The first phase of SDS includes construction of the following facilities:

- 45 miles of raw water pipeline (66- and 72-inch diameter)
- Two 78-million-gallon-per-day (mgd) raw water pump stations and one 50-mgd raw water pump station (expandable in Phase 2)
- A water treatment plant (WTP) with a capacity of 50 mgd (expandable in Phase 2)
- Approximately seven miles of finished water pipelines up to 54 inches in diameter

Phase 2 of SDS includes the following:

- A 30,500 acre-feet terminal storage reservoir on upper Williams Creek, Upper Williams Creek Reservoir (UWCR)
- Expansion of the 50-mgd raw water pump station and WTP to 100-mgd capacity
- Expansion of the treated water delivery system
- A 28,000 acre-feet exchange storage reservoir on Williams Creek, Williams Creek Reservoir, and conveyance facilities to transfer water to and from Fountain Creek for exchange operations.

SDS has been broken down into various work packages. The work packages and the facilities identified above are shown on Figure 1.

FIGURE 1. SOUTHERN DELIVERY SYSTEM WORK PACKAGES AND FACILITIES



## 1.3 SDS Participant Information

Contact details for the SDS Participants and their authorized agent are as follows.

### 1.3.1 SDS Participants

#### Colorado Springs Utilities

##### (Authorized agent acting on behalf of Participants)

Contact: Joseph Rasmussen, Principal Project Manager  
 Leon Young Service Center  
 1521 South Hancock Expressway  
 MC 1821  
 Colorado Springs, CO 80947  
 Phone: (719) 668-4173; Fax: (719) 668-5651  
 E-mail: jrasmussen@csu.org

#### Security Water District (Participant)

Contact: Roy Heald, District Manager  
 231 Security Blvd.  
 Security, CO 80911  
 Phone: (719) 392-3475; Fax: (719) 390-7252  
 E-mail: r.heald@securitywsd.com

#### City of Fountain (Participant)

Contact: Curtis Mitchell, Director of Utilities  
 116 S. Main St.  
 Fountain, CO 80817  
 Phone: (719) 322-2040; Fax: (719) 322-2011  
 E-mail: cmitchell@fountaincolorado.org

#### Pueblo West Metropolitan District (Participant)

Contact: Scott Eilert, Utilities Director  
 109 E. Industrial Blvd.  
 Pueblo West, CO 80017  
 Phone: (719) 547-5044; Fax: (719) 547-2833  
 E-mail: seilert@pwmd-co.us

## 1.4 Southern Delivery System Project Regulatory Review Process

SDS has undergone, and continues to undergo, significant regulatory oversight at the federal, state, and local levels. At the federal level, Reclamation has performed extensive and detailed environmental studies as a part of the National Environmental Policy Act (NEPA) process, the culmination of which was a Final Environmental Impact Statement (FEIS) and issuance of a ROD.

The ROD for SDS was issued on March 20, 2009. It identified SDS, as shown on Figure 1, as the Preferred Alternative. SDS has been determined to cause “the least damage to the biological and physical environment” (Reclamation 2009). The ROD included extensive commitments by the SDS Participants to significant, long-term mitigation measures.

Because SDS crosses wetlands and other waters of the United States, it required a permit from the USACE under the dredge and fill material permit program established under Section 404 of the federal Clean Water Act. A Section 404 Permit was received for SDS on April 26, 2010. Colorado Springs Utilities has developed new wetlands as compensatory mitigation under the Section 404 Permit, and provided copies of the mitigation plans to the Fountain Creek Watershed, Flood Control, and Greenway District for review. The jurisdictional wetlands mitigation project was reviewed and approved by the USACE and Fountain Creek Watershed, Flood Control, and Greenway District prior to its construction in September 2011. On January 22, 2015, the USACE determined that the wetland mitigation project was established and complete.

At the state level, the SDS Section 404 Permit received a Certification under Section 401 of the Clean Water Act from the Colorado Department of Public Health and Environment (CDPHE) on April 23, 2010. In February 2011, the State Water Quality Control Commission denied a challenge to the CDPHE (Water Quality Control Division) certification and upheld the certification. In April 2012, the Pueblo County District Court determined that the Commission action was not supported by the administrative record and remanded the certification. In July 2013, the Colorado Court of Appeals ruled that the state Water Quality Control Commission’s approval of the SDS certification was consistent with applicable laws and regulations and was supported by substantial evidence.

Colorado Parks and Wildlife (CPW) also reviewed SDS, and the SDS Fish and Wildlife Mitigation Plan (FWMP) was prepared collaboratively with CPW staff and approved by both the Colorado Wildlife Commission (CWC) and the Colorado Water Conservation Board (CWCB) (Colorado Springs Utilities, City of Fountain, Security Water District, Pueblo West Metropolitan District, and Colorado Division of Wildlife 2010). A Memorandum of Agreement implementing the FWMP was executed with the CPW on May 18, 2010.

At the county, regional, and city levels, SDS is subject to a variety of regulatory reviews and associated mitigation requirements, including the following:

- Pueblo County 1041 Permit (No. 2008-002),
- El Paso County Approval of Location, Site Development Plan, and 1041 Permit processes, and
- Land use approval by the Fountain Creek Watershed, Flood Control, and Greenway District (District).

Collectively, these permit conditions include comprehensive and extensive mitigation requirements, which are detailed in the respective resolutions of approval.



## 2.0 Listing of Permit Compliance Reporting Requirements for SDS

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A detailed and specific listing of the permit compliance reporting requirements for SDS for the six programmatic permits and approvals received for SDS that have annual reporting requirements is provided in Attachment 1 – Annual Implementation Progress Matrix. As construction of Phase I was completed during 2016, this will be the last report to document Phase I construction activities.

The Annual Implementation Progress Matrix contains:

- A listing of the environmental commitments for SDS with annual reporting requirements (columns 1 and 2).
- A description of SDS implementation progress towards compliance with each of the commitments (column 3).
- A field to show if additional documentation is included in an attachment to this report (column 4).
- Items that are specific to either construction or operations have been color coded.

Supporting documentation listed in column 4 is provided in the following attachments:

- Attachment 2 - Monthly Average Flow Data from United States Geological Survey (USGS) Gauge Station
- Attachment 3 - Water Quality Monitoring Data
- Attachment 4 - Complaint Log
- Attachment 5 - Emergency Response Log
- Attachment 6 - Log of Work Occurring During Non-Typical Work Hours
- Attachment 7 - Expenditures for Wastewater System Improvements Annual Report for 2016
- Attachment 8 - Summary of Storage, Diversion, Delivery of Water in Pueblo County
- Attachment 9 - Summary of Participants' Return Flows to Fountain Creek Including Storage and Releases of Such Return Flows
- Attachment 10 - Summaries of Exchanges by Participants between Pueblo Reservoir and the Fountain Creek Confluence
- Attachment 11 - Geomorphology Monitoring

## 3.0 Summary of SDS Activities Undertaken During the Reporting Period

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A number of actions have been taken during this reporting period related to the construction of SDS. Some of the key activities during this reporting period include the following:

### **Pueblo Dam Connection (PDC1A)**

SDS construction activities were completed at the PDC1A in 2013. Activities at Pueblo Dam during the reporting period included maintenance of stormwater best management practices (BMPs), irrigation, vegetation maintenance, and noxious weed mitigation. Vegetation restoration and noxious weed mitigation were completed in 2016 with acceptance by Reclamation and CPW on June 26, 2016. All requirements associated with PDC1A have been fulfilled. The location of PDC1A is shown on Figure 1.

### **PDC1B**

Construction of PDC1B began in August 2013 and was completed in 2014. Activities at Pueblo Dam included maintenance of stormwater BMPs, irrigation, vegetation maintenance, noxious weed mitigation and removal of the irrigation system. Vegetation restoration was completed in 2016 with acceptance by Reclamation and CPW on June 26, 2016. The location of PDC1B is shown on Figure 1.

### **S1 Pipeline**

SDS construction activities on the S1 Pipeline were completed in 2013, while vegetation restoration and maintenance activities continued in 2016. Activities at S1 included BMP maintenance, maintenance of the revegetation, and noxious weed mitigation. The location of the S1 Pipeline is shown on Figure 1.

### **S2 Pipeline**

SDS construction activities on the S2 Pipeline were completed in 2013, while vegetation restoration and maintenance activities continued through 2016. Activities at S2 included maintenance of BMPs, maintenance of the revegetation, and noxious weed mitigation. The location of the S2 Pipeline is shown on Figure 1.

### **S3 Pipeline**

SDS construction activities on the S3 Pipeline were completed in 2013, while vegetation restoration and maintenance activities continued in 2016. Activities included maintenance of BMPs, seeding, mulching, irrigation, maintenance of the revegetation, and noxious weed mitigation. Colorado Springs Utilities has been performing additional work along S3 in an effort to address damage from rainstorms during the 2014 growing season, and reached a final settlement with the largest property owner on S3 regarding final restoration efforts. The location of the S3 Pipeline is shown on Figure 1.



### **S4A East/West**

SDS construction activities on the S4A East and S4A West Pipelines were completed in 2014, while vegetation restoration and maintenance activities continued in 2016. Activities included maintenance of BMPs, vegetation restoration activities including seeding, mulching, irrigation, maintenance of the revegetation, and noxious weed mitigation. The location of the S4A East and West Pipelines are shown on Figure 1.

### **S4A Central**

SDS construction activities on the S4A Central Pipeline were completed in 2015, while vegetation restoration and maintenance activities continued in 2016. Activities included maintenance of BMPs, maintenance of the revegetation, and noxious weed mitigation. The location of the S4A Central Pipeline is shown on Figure 1.

### **S4B/N1A/N1B**

SDS construction activities on the S4B/N1A/N1B Pipeline were completed in 2013, while vegetation restoration and maintenance activities were completed in 2015. Activities in 2016 included temporary construction fence removal and noxious weed mitigation. The location of the S4B/N1A/N1B Pipeline is shown on Figure 1.

### **N1C/N2A**

Construction for the N1C/N2A Pipeline was completed in 2013, while vegetation restoration and maintenance activities continued in 2016. Activities included BMP maintenance, maintenance of the revegetation, and noxious weed mitigation. The location of the N1C/N2A Pipeline is shown on Figure 1.

### **N2B**

Construction activities on the N2B Pipeline were completed in 2015, while vegetation restoration and maintenance activities continued in 2016. Activities in 2016 included maintenance of BMPs, seeding, mulching, irrigation, maintenance of the revegetation, fence repair, and noxious weed mitigation. The location of the N2B Pipeline is shown on Figure 1.

### **FW1B**

FW1B was completed in 2012, with repair work on the detention pond completed in 2014. Vegetation restoration and maintenance activities continued in 2016. Activities included noxious weed mitigation. The location of the FW1B Pipeline is shown on Figure 1.

### **FW1C**

Construction activities on the FW1C Pipeline were completed in 2015, while vegetation restoration and maintenance activities continued in 2016. Activities in 2016 included maintenance of BMPs, maintenance of the revegetation, and noxious weed mitigation. The location of the FW1C Pipeline is shown on Figure 1.

### **FW3**

Construction activities were completed in 2014 while revegetation restoration and maintenance activities continued in 2016. Activities included maintenance of the

revegetation and noxious weed mitigation.. The location of the FW3 Pipeline is shown on Figure 1.

### **WTP**

Construction of the SDS WTP was completed in 2016. Activities included electrical work, chemical deliveries, seeding, mulching, planting of trees and shrubs, paving, installation of rock mulch, concrete work, and installation and maintenance of BMPs. There were also startup and commissioning and optimization activities. The location of WTP is shown on Figure 1.

### **RWPS**

Construction of the three raw water pump stations (RWPS), Bradley Pump Station (BPS), Williams Creek Pump Station (WCPS) and Juniper Pump Station (JPS), was completed in 2016. Activities included installation of BMPs, BMP maintenance, startup and commissioning activities. The locations of the three RWPS are shown on Figure 1.

### **UWCR**

30% design for the UWCR was completed in 2016. Geotechnical test pits were excavated and backfilled. The location of the UWCR is shown on Figure 1.

### **Other**

In addition to the milestones listed above, Colorado Springs Utilities engaged in the following initiatives of note during the reporting period.

- Continued identification of locations for wetlands construction to mitigate the 12.0 acres of non-jurisdictional wetlands that will be permanently impacted as a result of SDS current and future activities. Enhancements to one of the areas that was constructed along Fountain Creek in 2014 were completed in 2016. Another area's design was completed and construction of this mitigation project commenced in November 2016.
- Colorado Springs Utilities, or its selected contractors, continue to obtain a number of construction-related permits associated with integration and mitigation projects. Acquisition and compliance with programmatic permit/approval commitments and construction permit requirements are being tracked through the Environmental Management System (EMS).

The following list identifies other project-related items that were accomplished during the reporting period:

- Stormwater – the City of Colorado Springs, Colorado Springs Utilities, and the County of Pueblo entered into an Intergovernmental Agreement (IGA) on April 27, 2016 related to stormwater management activities. The IGA contains an annual reporting requirement. The report, the final version of which is not due until June 30 of each year, will be prepared by the City of Colorado Springs and submitted to Pueblo County under separate cover. Such report will not be submitted as part of this annual report.

- Sediment Control – As a condition of the IGA, Colorado Springs agreed to contribute, subject to those conditions outlined in the IGA, \$1 million per year for 3 years to the City of Pueblo or its Stormwater Enterprise for the purpose of funding repairs or improvements, including sediment and debris removal, to the levee system on Fountain Creek within the City of Pueblo. The first of the three payments was made on May 31, 2016.
- Revegetation – Cover and diversity evaluations were conducted by the Colorado Natural Heritage Program (CNHP) and by Pueblo County subject matter experts. Preliminary results indicate that the 90% cover requirement has been met on all pipeline segments in Pueblo County. Reports were reviewed by Pueblo County staff and Board of County Commissioners (BOCC) and the County held a series of hearings. On February 1, 2016, the County issued findings of compliance, with accompanying conditions, and released the revegetation bonds. Colorado Springs Utilities will continue to work cooperatively in the future with Pueblo County with respect to the maintenance of the SDS right-of-way and will meet its obligations under the SDS easement documents.

## 4.0 Future SDS Activities

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Anticipated activities for 2017 include:

Land acquisition for UWCR.

Compliance monitoring for operational activities.

NEPA and cultural resource surveys for Phase II construction.

## 5.0 References

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- Bureau of Reclamation. 2008. Southern Delivery System Final Environmental Impact Statement. December.
- Bureau of Reclamation. 2009. Record of Decision for the Southern Delivery System Project Final Environmental Impact Statement. Record of Decision Reference No. GP-2009-01. Colorado Department of Public Health and Environment. 2010. Section 401 Water Quality Certification; Colorado 401 Certification No.: 4224; U.S. COE 404 Permit No.: SPA-1995-00131-SCO; Description: Southern Delivery System; Location: El Paso and Pueblo Counties; Watercourse: Arkansas River, Fountain Creek and tributaries; Designation: Reviewable (MA01, MA02, MA03, FO02a, FO02b); Use Protected: (FO04, LA01a, LA01b). April 23
- Colorado Springs Utilities, City of Fountain, Security Water District, Pueblo West Metropolitan District, and Colorado Division of Wildlife. 2010. Southern Delivery System Fish and Wildlife Mitigation Plan. March 11.
- El Paso County. 2010a. Planning Commission Resolution U-09-002. For the Approval of Location of the Southern Delivery System Raw Water Pipeline within the A-5 (Agricultural), PUD (Planned Unit Development), RR - 2.5 (Rural Residential) and RR-5 (Residential Rural) Zone District. March 2.
- El Paso County. 2010b. Planning Commission Resolution U-09-003. For the Approval of Location of the Southern Delivery System Finished Water Pipeline within the PUD (Planned Unit Development) Zone District. March 2.
- El Paso County. 2010c. Planning Commission Resolution U-09-004. For the Approval of Location of the Southern Delivery System Bradley Pump Station within the RR-5 (Residential Rural) Zone District. March 16.
- El Paso County. 2010d. Planning Commission Resolution U-09-005. For the Approval of Location of the Upper Williams Creek Reservoir within the RR-5 (Residential Rural) Zone District. March 16.
- El Paso County. 2010e. Planning Commission Resolution U-09-007. For the Approval of Location of the Exchange Flow System within the RR-5 (Residential Rural) Zone District. March 16.
- El Paso County. 2014a. Development Services Department, File No. AASI-13-002, Southern Delivery System Finished Water Section 1C. Administratively Approved Permit Issued to Conduct a Designated Activity of State Interest or to Engage in Development in a Designed Area of State Interest in El Paso County, Colorado. January 2.
- El Paso County. 2014b. Development Services Department, File No. AASI-13-005, Southern Delivery System Finished Water Section 2. Administratively Approved Permit Issued to Conduct a Designated Activity of State Interest or to Engage in

- Development in a Designed Area of State Interest in El Paso County, Colorado. January 29.
- El Paso County. 2014c. Development Services Department, File No. AASI-14-001, Southern Delivery System Raw Water Pipeline Section S4AC. Administratively Approved Permit Issued to Conduct a Designated Activity of State Interest or to Engage in Development in a Designed Area of State Interest in El Paso County, Colorado. February 18.
- Fountain Creek Watershed, Flood Control, and Greenway District. 2010. Board of Directors Resolution 2010-01 – Land Use. A Resolution recommending that the El Paso County Planning Commission approve applications by Colorado Springs Utilities and on behalf of the Project Participants for location approvals for the Southern Delivery System located within the Fountain Creek Watershed Management Area and approving those portions of the Southern Delivery System located within the Fountain Creek Corridor. February 26.
- Pueblo County. 2009. 1041 Permit No. 2008-002. The Board of County Commissioners of Pueblo County Colorado; A Resolution Approving 1041 Permit No.2008-002 With Terms and Conditions for Construction and Use of a Municipal Water Project Known as the Southern Delivery System within Pueblo County, Colorado. April 21.
- State of Colorado. 2010. Memorandum of Agreement by and between the State of Colorado, acting by and through the Department of Natural Resources, for the use and benefit of the Division of Wildlife and Colorado Springs Utilities, acting as the Project Manager for the Southern Delivery System. May 18.
- U.S. Army Corps of Engineers. 2010. Department of the Army Permit; Permittee: Colorado Springs Utilities; Permit No. SPA-2005-00131-SCO; Issuing Office: Albuquerque District, U.S. Army Corps of Engineers. April 26.

# Implementation Progress Matrix

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The cells in the implementation column have been color coded to indicate which conditions have been completed (gray), are no longer applicable (gray) or are required now that SDS is operational (blue). This is the last year the cells in gray will be reported.

ATTACHMENT 1

Annual Implementation Progress Matrix

Reporting Requirements		CY2016 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
<b>Bureau of Reclamation - Record of Decision</b>			
<b>Environmental Commitments</b>			
p. 11, ¶1	Such contracts will, at a minimum, include a requirement for the SDS Participants to submit to Reclamation an annual compliance report that certifies progress in successfully implementing these commitments in a timely manner as prescribed in this ROD and any contracts.	This Permit Compliance Annual Report is being prepared to demonstrate the progress in successfully implementing the commitments as prescribed in the ROD and the annual reporting requirements found in the other programmatic permits and approvals including: the Pueblo County 1041 Permit, the El Paso County Location Approvals, El Paso County 1041 Permits, the CDPHE 401 Water Quality Certification and the Fountain Creek Watershed, Flood Control and Greenway District approval.	No
p. 11, ¶2	The Participants must obtain other significant Federal, State, and local permits, approvals, and agreements for the SDS Project.	The programmatic permits for the Southern Delivery System (SDS) are in place. The selected construction contractors are required through the contract documents to submit copies of all permits acquired. The SDS Participants are tracking the permit acquisition progress for each of the work packages as construction activities commence.	No
p. 11, ¶3	A detailed and specific list of environmental commitments and plan for their implementation will emerge from this coordination process.  The timing of this process is important. Coordination of implementation of the environmental commitment plan will occur prior to executing any contracts for the SDS Project.	An Environmental Commitments Plan was completed and submitted to the Bureau of Reclamation on March 18, 2011.	No
<b>Participants' Commitments: General Commitments</b>			
p. 12, Bullet 1	Comply with all applicable permits, regulations, and laws including but not limited to CDPHE, USCOE 404, and local land use permits obtained for the SDS Project.	Compliance with permit and regulatory requirements is being tracked through the implementation of an Environmental Management System (EMS). In addition, the construction contract documents for each of the work packages include permit and regulatory compliance requirements. The EMS ensures that all applicable actions necessary for compliance are taken in a timely manner.	No
p. 12, Bullet 2	Construct and operate the SDS Project in a manner that does not differ substantially from that evaluated in this FEIS, except under emergency conditions, and unless additional and appropriate environmental investigations are completed by Reclamation and approval is then given to Participants to alter construction or operation of the SDS Project.	The SDS Participants constructed and will operate the preferred alternative that was identified in the FEIS in a manner that does not differ substantially from that evaluated in the FEIS.	No
p. 12, Bullet 3	Develop and implement a head pressure monitoring program on the Joint Use Manifold to isolate effects attributable to the SDS Project and to mitigate those effects if they were to occur. This program will be developed over a 3-year period from the date that water is first delivered from the Joint Use Manifold for the SDS project. Development of the monitoring program will include involvement of all other Joint Use Manifold users.	This commitment is no longer applicable to SDS. The Joint Use Manifold will not be used with the construction of the Pueblo Dam Connection at the North Outlet Works.	No



ATTACHMENT 1

Annual Implementation Progress Matrix

Reporting Requirements		CY2016 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
p. 12, Bullet 4	Develop an integrated adaptive management program for the project that will be coordinated with the Participants' existing monitoring programs and the Environmental Management System discussed in Appendix F of the FEIS. The integrated adaptive management program will be finalized prior to executing any contracts for the SDS project.	An Integrated Adaptive Management Plan (IAMP) has been developed and was submitted to the Bureau of Reclamation on March 18, 2011. The requirements of the IAMP will be coordinated with the development of the Phase II EMS that Colorado Springs Utilities is developing. The requirements of the IAMP are not effective until SDS is operational.	No
<b>Participants' Commitments: Surface Water</b>			
p. 12, Bullet 1	Comply with the Upper Arkansas Voluntary Flow Management Program except during emergency conditions as defined in Section 2.b. of the Memorandum Of Understanding for Settlement of Case No. 04CW129, Water Division 2 (Chaffee County Recreation In-Channel Diversion).	The SDS Participants complied with the Upper Arkansas Voluntary Flow Management Program.	No
p. 13, Bullet 2	Comply with the Pueblo Flow Management Program pursuant to existing intergovernmental agreements. If Reclamation and the Participants receive credible information that project operations are impairing physical diversion of a senior water right, contrary to Colorado water law, the Participants will immediately initiate discussions among the parties, including the party alleging the impairment of Reclamation, to develop a solution and remedy the impairment in compliance with Colorado water law.	SDS Participants complied with the Pueblo Flow Management Program and details are shown in Attachments 8, 9, and 10.	Attachments 8 through 10.
p. 13, Bullet 3	Participants will consult with Reclamation each year on the average annual flow in Fountain Creek. If the average annual stream flow of Fountain Creek as measured at Pueblo (USGS gauge station number 07106500) exceeds the scope and range of the flow estimated and analyzed in the Final Environmental Impact Statement (see Table 33 of the FEIS), then Participants will coordinate with Reclamation, within their adaptive management plan, to evaluate the cause(s) for the change in flows and determine whether appropriate response actions, such as monitoring and/or mitigation measures, are warranted. Each year, Participants will report to Reclamation the average annual flow in Fountain Creek at Pueblo together with other relevant data.	The average annual flow during this reporting period in Fountain Creek as measured at USGS gauge station number 07106500 was approximately 204.1 cubic feet per second (cfs). Table 33 of the FEIS reported the average annual simulated streamflow at this location under existing conditions as 188 cfs and under the preferred alternative (Alt 2) as 253 cfs. The Southern Delivery System was under construction during a portion of this reporting period and no flows were introduced to Fountain Creek as a result of this project during such time. During such time as the project was operational, flows did not exceed the scope and range identified in the FEIS. See Attachment 2 for the monthly average flow data from USGS Gauge Station Number 07106500.	Attachment 2 - Monthly Average Flow Data from USGS Gauge Station Number 07106500
p. 13, ¶1	Surface water mitigation measures will resolve adverse effects to physical diversions of senior water rights.	This requirement is a summary statement of the specific surface water mitigation measures described in the three bullets listed above. The SDS Participants are implementing the surface water mitigation measures per the Upper Arkansas Voluntary Flow Management Program and the Pueblo Flow Management Program.	No
<b>Participants' Commitments: Water Quality</b>			
p. 13, Bullet 1	Include water quality monitoring and adaptive management within the integrated adaptive management program (see Participants' General Commitments).	The Monitoring Plan has been completed and was submitted to the Bureau of Reclamation on March 18, 2011.	No

# ATTACHMENT 1

## Annual Implementation Progress Matrix

Reporting Requirements		CY2016 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
p. 13, Bullet 2	Begin implementing water quality monitoring when construction of the project begins. This will allow about three years of baseline data to be collected before project operations begin.	A Joint Funding Agreement was executed with the U.S. Geological Survey (USGS) on the water quality monitoring program. Water quality monitoring began in January, 2011.	Attachment 3 - Water Quality Monitoring Data
p. 13, Bullet 3	Submit water quality monitoring data, including trend analyses, for the preceding calendar year to Reclamation by January 31st of the subsequent year.	A Joint Funding Agreement was executed with the U.S. Geological Survey (USGS) on the water quality monitoring program. Water quality monitoring began in January, 2011. See Attachment 3 for the water quality monitoring data. USGS reports data on a water year basis (October-September). The annual report will present data based on that reporting period. Trend analysis is not included in this report because Section 14.0 of the approved IAMP indicates periodic reviews are to begin a minimum of 10 years following the initiation of the SDS Project operations. SDS began operation in April 2016, so trend analysis will not begin until the 2026 reporting year.	Attachment 3 - Water Quality Monitoring Data
p. 13, Bullet 4	If the Colorado Department of Public Health and Environment (CDPHE) determines that operation of the SDS Project is causing significant adverse water quality effects, the Participants will coordinate with Reclamation, CDPHE, and other interested parties to evaluate and select measures to mitigate adverse effects.	CDPHE has not indicated that any adverse water quality effects have occurred due to the operation of SDS.	No
p. 13, Bullet 5	In the event that operation of the SDS Project causes, or threatens to cause, stream flows in the Arkansas River or other waterways to diminish to low levels that will contribute significantly to elevated concentrations/densities of dissolved selenium, <i>E. coli</i> , or sulfate, the Participants will coordinate with Reclamation, CDPHE, CDOW, and other interested parties to evaluate and select measures to mitigate adverse effects.	The SDS Project has not caused or threatened to cause stream flows to diminish to such low levels.	No
p. 13, ¶1	Development and implementation of a water quality monitoring and adaptive management plan will provide a means of detecting changes in water quality, judging whether they are likely caused by operation of the SDS Project, and addressing actual effects in a systematic manner. Additionally, implementation of the geomorphology mitigation measures (below) will reduce suspended sediment and total recoverable iron concentrations in Fountain Creek and the lower Arkansas River.	This requirement is a summary statement of the specific water quality commitments described in the five bullets listed above. The Monitoring Plan, Geomorphic Mitigation Plan and IAMP have been completed. These plans were submitted to the Bureau of Reclamation in March 2011. The plans will be implemented during the operation of the SDS project in accordance with this commitment.	No

ATTACHMENT 1

Annual Implementation Progress Matrix

Reporting Requirements		CY2016 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
<b>Participants' Commitments: Geomorphology</b>			
p. 14, Bullet 1	<p>Prepare a geomorphic mitigation plan and secure Reclamation approval prior to executing any contracts for the SDS Project. This plan could include, but is not limited to:</p> <ul style="list-style-type: none"> <li>• Evaluate and consider strategies to remove sediments that reduce the effectiveness of Corps levees located near Fountain Creek at its confluence with the Arkansas River</li> <li>• Evaluate and consider strategies to increase the sinuosity of Fountain Creek at appropriate locations in order to reduce undesirable erosion and sedimentation</li> <li>• Evaluate and consider strategies at appropriate locations along Fountain Creek to reduce undesirable erosion and sedimentation</li> <li>• Select geomorphic mitigation measures for SDS Project effects that are, to the extent practicable, consistent with priority projects identified in the Corps of Engineers' Fountain Creek Watershed Study and the Fountain Creek Corridor Master Plan. Locations where geomorphic mitigation projects could occur include, but are not limited to: <ul style="list-style-type: none"> <li>• Fountain Creek at the Clear Spring Ranch site, directly upstream and downstream of the confluence of Little Fountain Creek and Fountain Creek (approximately 4 miles)</li> <li>• Fountain Creek from upstream of Fountain Boulevard to upstream of Colorado 85/87 at the Sand Creek confluence (approximately 3 miles)</li> </ul> </li> </ul>	<p>A Geomorphic Mitigation Plan was completed and submitted to the Bureau of Reclamation on March 15, 2011. The Bureau of Reclamation approved this plan on April 26, 2011. Consistent with the Geomorphic Mitigation Plan, data collection began following the start of project construction. CSU, in conjunction with USGS, has been performing geomorphological monitoring.</p> <p>The Fountain Creek realignment was completed in 2014, which included drop control structures, channel grading, installation of buried rip rap, erosion control blanket, seed, wetlands plugs, willows and cottonwood stakes. Repairs and enhancements to this project were completed in 2016.</p>	No
p. 14, Bullet 2	Complete pre-project geomorphic mitigation, including channel stabilization projects and non-structural options such as conservation easements, before the project is operational. Channel stabilization could include, but is not limited to, increasing stream sinuosity, flattening of steep side slopes, installation of grade control structures and use of buried riprap, erosion blankets, and/or vegetative cover for channel stabilization in areas of high and/or erosive velocities.	The SDS Participants have coordinated extensively with Pueblo County regarding the scope of a Fountain Creek dredging project. On August 30, 2010, an agreement was reached by which the SDS Participants provided approximately \$2.2 million in funding to Pueblo County for the Fountain Creek dredging project. The SDS Participants made this payment to Pueblo County on September 27, 2010.	No
p. 14, Bullet 3	Design and construct an energy dissipation structure that will protect against erosion at the outlet of the pipeline from Williams Creek Reservoir to Fountain Creek.	The final design of the Williams Creek Reservoir is anticipated to begin during the period from 2020 to 2025. An energy dissipation structure at the pipe outlet will be incorporated into the design.	No
p. 14, Bullet 4	Evaluate and implement appropriate future geomorphic stabilization projects, if such future projects are determined to be necessary after the project is operational.	The Geomorphic Mitigation Plan provides a means for evaluating geomorphic impacts and determining the need for stabilization projects. No need has been identified during the reporting period.	No
p. 14, ¶1	When implemented, these recommendations will mitigate potential adverse effects on geomorphology by avoiding or minimizing effects of return flow discharges through an energy dissipation structure, compensating for anticipated effects, and responding to effects identified after project operations begin.	This requirement is a summary statement of the specific water quality commitments described in the five bullets listed above. A Geomorphic Mitigation Plan has been completed and will be implemented during the construction and operation of SDS in accordance with this commitment.	No

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Reporting Requirements		CY2016 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
<b>Participants' Commitments: Aquatic Life</b>			
p. 15, Bullet 1	Submit a proposed wildlife mitigation plan to the Colorado Wildlife Commission (Wildlife Commission) pursuant to C.R.S. 37-60-122.2. This proposal will include actions the Participants propose to mitigate impacts that the SDS Project may have on fish and wildlife. As required by that statute, the Wildlife Commission will evaluate the probable impact of the project on fish and wildlife and, if the Participants and Wildlife Commission cannot agree upon reasonable mitigation, the Wildlife Commission will make recommendations to the Colorado Water Conservation Board (CWCB) regarding what it believes to be reasonable mitigation actions. If the Participants and the Wildlife Commission agree on a mitigation plan, the Wildlife Commission will submit that agreement to the CWCB, which must adopt the agreement as the state's official position. If the Participants and the Wildlife Commission do not reach agreement on a mitigation plan, the CWCB will consider the plan submitted by the Participants and the recommendations of the Wildlife Commission, which then becomes the State's official position, or submit its own recommendations to the Governor, who will ultimately determine the state's official position on the proposed wildlife mitigation plan.	A Wildlife Mitigation Plan was developed in cooperation with the Colorado Division of Wildlife, which was then submitted to the Colorado Wildlife Commission pursuant to C.R.S. 37-60-122.2. The Colorado Wildlife Commission approved the Wildlife Mitigation Plan and the Colorado Water Conservation Board adopted it. A Memorandum of Agreement between the SDS Participants and the Colorado Department of Natural Resources, on behalf of the Colorado Division of Wildlife, was executed May 18, 2010. CSU, in collaboration with Colorado Parks and Wildlife and the Colorado Wildlife Commission drafted an amendment to the SDS Fish and Wildlife Mitigation Plan (Plan) , Section 3.1.2 – Mitigation of Fish Retention Structures. This amendment allows for alternative mitigation efforts than what is currently in the Plan at Lake Henry and Lake Meredith. This amendment was accepted by the Colorado Parks and Wildlife Commission on August 12, 2016.	No
p. 15, Bullet 2	In the event that the operation of the SDS Project causes, or threatens to cause, stream flows in Fountain Creek or the Arkansas River to diminish to low levels that could contribute significantly to impairment of aquatic life, coordinate with Reclamation, CDPHE, CDOW and other interested parties to evaluate and select measures to mitigate adverse effects.	The SDS Project has not caused or threatened to cause stream flows to diminish to low levels.	No
p. 15, Bullet 3	Evaluate and consider participation in CDOW fish hatchery programs.	The Memorandum of Agreement between the SDS Participants and the Colorado Department of Natural Resources, on behalf of the Colorado Division of Wildlife (CDOW), includes a commitment that Colorado Springs Utilities will either construct 7.5 acres of fish rearing ponds for warm water species or provide \$7.5M in funding to CDOW for this construction. CSU made a \$7,500,000 payment in January 2016 to CPW for fish hatchery mitigation in fulfillment of its obligations.	No
p. 15, Bullet 4	Monitor the effects of the operation of the SDS Project upon aquatic life in Fountain Creek and the Arkansas River between Pueblo Dam and the Las Animas Gage. Aquatic sampling will be conducted once per year at up to 10 locations. Monitoring methods and locations will be identified in the proposed wildlife mitigation plan that will be submitted to the Colorado Wildlife Commission pursuant to C.R.S. 37-60-122.2. Use the information from this monitoring in the adaptive management program for the SDS Project.	The SDS project did not become operational until late April 2016. Aquatic sampling was performed per the Wildlife Mitigation Plan. USGS has yet to provide 2016 results, but there is no indication of adverse impacts to date as a consequence of the limited project operation.	No

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Reporting Requirements		CY2016 Annual Report Information	
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p. 15, ¶1	When implemented, these recommendations will mitigate potential adverse effects on aquatic life by avoiding or minimizing effects, compensating for anticipated effects, and detecting and responding to effects identified after project operations begin.	This requirement is a summary statement of the specific aquatic life commitments described in the four bullets listed above. The SDS Participants has implemented the Fish & Wildlife Mitigation Plan as well as the agreements from the MOA with the Colorado Department of Natural Resources during the construction phase and will continue to do so during the operation of SDS.	No
<b>Participants' Commitments: Wetlands, Waters, and Riparian Vegetation</b>			
p. 15, Bullet 1	Design final alignments and facilities to avoid and minimize wetland impacts.	The pipeline alignments and facilities were designed in accordance with the information that was submitted and approved by the USACE with the individual 404 permit application for SDS. The requirements of the 404 permit are included in the construction contract document for each work package, as applicable.	No
p. 15, Bullet 2	Assess alternative construction methods for pipeline crossings (i.e., directional drilling v. open cut) to minimize wetland and stream impacts.	Alternative construction methods for pipeline crossings were considered during the development of the individual 404 permit application for the SDS. The final design of pipeline crossings is in accordance with the information provided in the individual 404 permit where impacts to jurisdictional waters were described.	No
p. 16, Bullet 3	Mitigate impacts to jurisdictional and non-jurisdictional wetlands in areas of temporary, short-term effects such as pipeline crossings, on-site at the place of disturbance with similar wetlands and soils to replace existing wetland functions and values.	The construction contract documents for each work package, as applicable, include the 404 permit Nationwide Permit (NWP) 12 requirements for all temporary, short-term effects to jurisdictional and non-jurisdictional wetlands. The impacts have been mitigated on-site through the implementation of the NWP 12 requirements. Areas with temporary impacts have been re-seeded and to date have shown satisfactory establishment.	No

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Reporting Requirements		CY2016 Annual Report Information	
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p. 16, Bullet 4	Mitigate all unavoidable, permanent impacts to jurisdictional and non-jurisdictional wetlands with compensatory wetlands that replace existing wetland functions and values. Compensatory wetland mitigation will likely occur at the Clear Spring Ranch site on Fountain Creek downstream of the City of Fountain.	Colorado Springs Utilities procured engineering design services for the compensatory wetland mitigation project at the Clear Spring Ranch site. The SDS Participants presented the final design for Reclamation and USACE review and approval in April 2011. The jurisdictional wetlands mitigation project construction was initiated in September 2011 and completed in April 2012. Monitoring of this wetland continued in 2014 and performance goals established for the wetland were met. On January 22, 2015, the USACE determined that the wetland mitigation project was established and complete. Some non-jurisdictional wetlands mitigation has been done as part of the Fountain Creek realignment project. The Pinello Ranch Wetland Mitigation design has been completed and construction has begun.	No
p. 16, Bullet 5	Control Tamarisk that may establish around newly constructed reservoirs.	This requirement is not applicable yet as no SDS reservoir construction has commenced during this reporting period.	No
p. 16, Bullet 6	Evaluate and consider a strategy to increase the sinuosity of Fountain Creek at appropriate locations in order to create wetlands areas.	The SDS Participants considered options to increase the sinuosity of Fountain Creek at the Clear Spring Ranch site in order to create wetland areas in association with the design of the compensatory wetland mitigation project. The Fountain Creek realignment was completed in 2014, which included drop control structures, channel grading, and included the creation of approximately 5.5 acres of wetlands that were planted with wetlands plugs, willows and cottonwood stakes. Enhancements and repairs to this project were completed in 2016.	No
p. 16, Bullet 7	Evaluate and consider the construction and maintenance of new areas of wetlands along Fountain Creek in order to participate in wetlands banking programs. Evaluate and consider cooperation with Colorado agencies to expand such a wetlands creation process.	The USACE verbally denied Colorado Springs Utilities the opportunity of a wetland banking partnership with Colorado agencies, stating that Colorado Springs Utilities cannot share the umbrella of a wetland banking tool. Therefore, no further evaluation of this approach is contemplated.	No

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Reporting Requirements		CY2016 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
p. 16, ¶1	Mitigation plans for jurisdictional and non-jurisdictional wetlands will be submitted for approval by the Corps of Engineers and Reclamation, respectively. All design and planning measures for wetlands, waters, and riparian vegetation will be completed before any contracts for the SDS Project.	Mitigation plans for jurisdictional and non-jurisdictional wetlands were submitted for approval by the USACE and reclamation prior to construction of PDC1A. Colorado Springs Utilities procured engineering design services for the compensatory wetland mitigation project at the Clear Spring Ranch site. The SDS Participants presented the final design for Reclamation and USACE review and approval in April 2011. The jurisdictional wetlands mitigation project was constructed in September 2011.	No
p. 16, ¶2	By reviewing the location of wetlands during final design, effects on wetlands can be avoided and minimized. Specifically, the pipeline construction corridors through wetlands will be reduced to the minimum width practicable. Similarly, construction methods that do not involve trenching through a wetland will avoid impacts. Wetlands mitigated in place and off-site will replace affected wetlands on a 1:1 ratio and will provide similar functions and values. The 404 permitting process is ongoing and the final off-site mitigation ration for jurisdictional wetlands for the 404 permit has not yet been determined.	This requirement is a summary statement of the specific wetlands, waters and riparian vegetation commitments described in the seven bullets listed above. The pipeline alignments and facilities have been designed in accordance with the information that was submitted and approved by the USACE with the individual 404 permit application for SDS, as applicable. Wetland impacts were minimized. The requirements of the 404 permit are included into the construction contract document for each work package, as applicable.	No
<b>Participants' Commitments: Vegetation</b>			
p. 16, Bullet 1	Prior to final design, review locations of Needle and Thread grass -Blue Grama Grasslands, high quality shrublands and woodlands, and other areas with desirable vegetation to determine design changes within the current study area that will avoid and minimize impacts.	Pre-construction wildlife and vegetation surveys were completed as part of the final design for each of the work packages. The results of these surveys are being incorporated into the construction contract documents as necessary.	No
p. 16, Bullet 2	Replace mature trees (diameter at breast height of 12 inches or greater) within construction areas at a 1:1 ratio with the same or similar native species with available nursery container stock or pole plantings as soon as practicable after construction activities have ended.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 16, Bullet 3	For 1 year after construction, monitor the construction areas to determine if appropriate native vegetation is establishing. If native vegetation is not establishing, the site will be reseeded with appropriate species.	Revegetation efforts have begun or been completed on the all pipeline and facility work packages. All of these work packages were, or are being monitored following established protocols.	No
p. 16, Bullet 4	In the appropriate season prior to construction, survey potential construction areas with known populations of dwarf milkweed and other plant species of concern, to locate areas where impacts can be avoided and minimized to the extent practicable with design changes within the current study area. After identifying populations to avoid, mark populations within or nearby the construction easement as environmentally sensitive so that workers avoid inadvertent impacts.	Pre-construction wildlife and vegetation surveys were completed for each of the work packages. The results of these surveys were incorporated into the construction contract documents as necessary.	No
p. 17, Bullet 5	During construction, wash major construction equipment before it enters the site so that noxious weeds are not spread from other construction sites.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No



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Reporting Requirements		CY2016 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
p. 17, Bullet 6	Use certified weed-free mulch after seeding construction areas.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 17, Bullet 7	Reseed construction areas with comparable native vegetation as soon as practicable after disturbance, using seed that does not contain any noxious weed seed.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 17, Bullet 8	Monitor construction areas for 3 years after construction to assess if noxious weeds have invaded the site. If noxious weeds are present, weed control plans will be formulated and completed.	As part of the pre-construction vegetation surveys completed for each work package, a noxious weed survey was conducted. The noxious weed survey includes recommended weed control methods. This information was incorporated into the contract documents. Monitoring of construction areas will continue for three years after construction to ensure that any necessary weed control is performed. In 2016, all work packages were monitored for noxious weeds, control plans were followed and observed noxious weeds were treated consistent with these plans.	No
p. 17, Bullet 9	Because the project may indirectly increase the spread of tamarisk, the Participants will work with the Colorado Department of Agriculture's Colorado Noxious Weed Management Team on tamarisk issues in the Arkansas Valley including submitting a request for partnership evaluation.	The Fish and Wildlife Mitigation Plan has identified the inlet area at the Pueblo Reservoir as an area of specific interest and identified the Colorado Department of Agriculture's Colorado Noxious Weed Management group as a consulting agency. Appropriate coordination will continue to occur.	No
p. 17, ¶1	Impacts to plant species and communities of concern and other sensitive vegetation areas can be avoided and minimized during final design and implementation. Because mitigation measures such as transplanting of individuals are often unsuccessful, avoidance and minimization will ensure survival, especially of plant species of concern. Seeding disturbed areas, replacing mature trees, and controlling noxious weeds will replace existing vegetation types and structural diversity and will ensure that high quality habitat remained.	As described in the previous nine responses, numerous measures were implemented to minimize potential impacts to plant species and communities of concern and other sensitive vegetation areas. For this item and the previous nine, no concerns have been identified to date.	No
<b>Participants' Commitments: Wildlife</b>			
p. 17, Bullet 1	Submit a proposed wildlife mitigation plan to Colorado Wildlife Commission pursuant to C.R.S. 37-60-1212.2 as described above.	A Wildlife Mitigation Plan was developed in cooperation with the Colorado Division of Wildlife, which was then submitted to the Colorado Wildlife Commission pursuant to C.R.S. 37-60-122.2. The Colorado Wildlife Commission approved the Wildlife Mitigation Plan and the Colorado Water Conservation Board adopted it. A Memorandum of Agreement between the SDS Participants and the Colorado Department of Natural Resources, on behalf of the Colorado Division of Wildlife was executed May 18, 2010.	No
p. 17, Bullet 2	Promptly revegetate all disturbed areas with native species that provide species diversity and food and cover for large game and wildlife habitat.	This commitment was incorporated into the revegetation contract documents for each of the work packages, as applicable.	No



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Reporting Requirements		CY2016 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
p. 17, Bullet 3	Conduct clearance surveys in suitable habitat for state-listed species following standard protocols, as available, prior to construction (e.g., CDOW undated).	The SDS Participants completed pre-construction wildlife and vegetation surveys as part of the final design for each of the work packages. The results of these surveys were incorporated into the construction contract documents as necessary.	No
p. 17, Bullet 4	Conduct raptor nest surveys prior to construction and impose seasonal restrictions to surface activity within recommended buffers (generally 1/4 to 1/2 mile) around active raptor nest sites and heron rookeries during construction.	Pre-construction raptor nest and heron rookery surveys were being completed for each of the work packages. The results of these surveys were incorporated into the construction contract documents as necessary.	No
p. 17, Bullet 5	Consult with CDOW and U.S. Fish and Wildlife Services' Migratory Permit Bird Office to develop mitigation for unavoidable loss of raptor nests. Options may include constructing artificial nests in suitable habitat or enhancing prey habitat.	The following protocol identified in the Fish and Wildlife Plan was used during construction of SDS: If a nest was detected during the pre-construction raptor nest survey, Colorado Springs Utilities coordinated with Colorado Division of Wildlife and USFWS to develop mitigation for unavoidable raptor nest loss. A nest was identified in one of the pipeline alignments and CDOW was consulted as a lead agency. A raptor nest mitigation plan was submitted and approved and Colorado Springs Utilities mitigated the nest. A nest was installed at Clear Spring Ranch.	No
p. 17, Bullet 6	Develop construction schedules to avoid impacts to nesting migratory birds. If construction is scheduled to occur during the nesting season (April 1 through August 31) in areas where migratory birds may nest, a qualified biologist will conduct a nesting bird survey prior to the commencement of construction activities to determine the presence of migratory birds and their nests. If an active nest is detected, a buffer zone between the nest and the limit of construction will be flagged and avoided during the nesting season, or construction will be scheduled outside of the nesting season.	The following protocol was used during construction of SDS: If an active nest was detected during the pre-construction raptor nest survey, Colorado Springs Utilities coordinated with Colorado Division of Wildlife and the construction contractor to ensure a buffer zone between the nest and the limit of construction was identified and the area avoided during the nesting season, or construction was scheduled outside of the nesting season.	No
p. 18, Bullet 7	Conduct pre-construction surveys for swift fox den sites within appropriate habitat along the pipeline corridor and proposed reservoir sites. Avoid surface disturbance within 1/4 mile of active den sites while young are den-dependent (March 15 -June 15).	Pre-construction wildlife and vegetation surveys were completed as part of the final design for each of the work packages. The results of these surveys were incorporated into the construction contract documents as necessary.	No
p. 18, Bullet 8	Restrict pesticides for rodent control within swift fox overall range.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 18, Bullet 9	Mitigate impacts to state-listed amphibian species by avoiding, minimizing, and mitigating wetland effects as described above.	The 404 Individual Permit, the 404 Compensatory Wetland Mitigation Plan and the Fish and Wildlife Mitigation Plan will be followed.	No
p. 18, Bullet 10	Impose seasonal restrictions on construction to avoid sensitive large game winter habitat (from first large snowfall to summer green-up).	Pre-construction wildlife and vegetation surveys were completed as part of the final design for each of the work packages. The results of these surveys were incorporated into the construction contract documents as necessary.	No

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Reporting Requirements		CY2016 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
p. 18, Bullet 11	Install wildlife crossovers (trench plugs) during pipeline construction with ramps on each side at a maximum of 1/4 mile intervals and at well-defined game trails.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 18, Bullet 12	Create additional nesting habitat or nest boxes in nearby trees for the Lewis' woodpecker when nest trees are destroyed.	Pre-construction wildlife and vegetation surveys were completed as part of the final design for each of the work packages. No Lewis' woodpecker nests were identified.	No
p. 18, ¶1	By replacing vegetation including structural diversity, the long-term effects on wildlife will be reduced by allowing wildlife to return to disturbed areas. Pre-construction surveys will identify wildlife use at the time of construction and allow for planning for avoidance and minimization. Imposing seasonal and/or daily restrictions on construction will enable wildlife to use important habitat, especially during breeding and other critical periods. Wildlife crossovers installed within the pipeline trench will facilitate wildlife passage and provide escape routes for wildlife trapped within the trench, thereby reducing mortality.	As described in the previous twelve responses, numerous measures were implemented to minimize potential impacts to wildlife. These measures were incorporated in the construction contract documents. Measures were implemented and some measures, such as ramps in the trenches were placed at shorter intervals than required.	No
<b>Participants' Commitments: Recreation</b>			
p. 18, Bullet 1	During short-term construction activities that require trail closures of developed recreational trails, designate a safe and reasonable detour around the project site. Post signs directing trail users.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 18, Bullet 2	Work with the local municipality to establish alternate trails with consistent width, surfacing, and signage.	Colorado Springs Utilities coordinated with affected local municipalities as needed to identify temporary alternate trails to be used or constructed during construction.	No
p. 18, Bullet 3	Within developed parks with temporary effects, commit to full reclamation of the impact area by replacing turf, irrigation systems, and other facilities that could be affected. Provide follow-up monitoring and maintenance for 1 year to ensure that reclamation efforts are successful.	There were no temporary effects to developed parks as a result of SDS construction this year. This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 18, Bullet 4	In developed park areas with permanent, above ground SDS Project facilities, reconfigure park facilities that will be directly affected and visually screen SDS Project facilities from other park uses with vegetation, berming or attractive fencing.	Construction has been completed on the Juniper Pump Station. Colorado State Parks was a reviewing agency on the design. Fencing was erected to screen construction operations.	No
p. 18, Bullet 5	Seek opportunities to enhance angling, boating, or other recreation opportunities at Lake Henry, Lake Meredith, and Holbrook Reservoir so that they are less vulnerable to water level fluctuations. Work with the CDOW to identify priority projects and include them in a proposed wildlife mitigation plan to the Colorado Wildlife Commission pursuant to C.R.S. 37-60-122.2 as above.	A Memorandum of Agreement between the SDS Participants and the Colorado Department of Natural Resources, on behalf of the Colorado Division of Wildlife, which adopted the Fish and Wildlife Mitigation Plan, was executed May 18, 2010 and was amended on August 12, 2016.	No
p. 19, ¶1	The proposed mitigation measures will reduce the impact of project facility construction on trail users. They will also reduce the short- and long-term impacts of project facilities on park infrastructure, vegetation, aesthetics, and recreation experiences. Collaboration with the CDOW to enhance fishing and boating opportunities may result in such improvements to recreation at Lake Henry, Lake Meredith, and Holbrook Reservoir.	As described in the previous five responses, numerous measures are being implemented to minimize potential impacts to recreation opportunities. For this item and the previous five, no concerns have been identified to date.	No

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Reporting Requirements		CY2016 Annual Report Information	
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<b>Participants' Commitments: Socioeconomics and Land Use</b>			
p. 19, Bullet 1	Acquire properties and easements through voluntary, willing participant agreements to the maximum extent practicable.	Colorado Springs coordinated with individual landowners to acquire properties and easements through voluntary negotiations to the maximum extent practicable.	No
p. 19, Bullet 2	Develop a construction management plan to outline best management practices to minimize impacts to surrounding properties and submit plan to Reclamation for approval prior to construction.	A Socioeconomic Construction Management Plan was completed and was submitted to the Bureau of Reclamation on March 15, 2011. The Bureau of Reclamation approved this plan on April 26, 2011.	No
p. 19, ¶1	Adverse short-term effects on landowners with parcels that will contain SDS features will be offset through mutually agreed upon compensation. The land use mitigation measures will minimize disturbances to properties near the project during construction or minimize land use changes and conflicts.	A Socioeconomic Construction Management Plan was completed and was submitted to the Bureau of Reclamation on March 15, 2011. The Bureau of Reclamation approved this plan on April 26, 2011. The plan provided for appropriate compensation and mitigation.	No
<b>Participants' Commitments: Cultural Resources</b>			
p. 19, Bullet 1	Comply with the requirements of the Programmatic Agreement between Reclamation, the ACHP, Colorado Springs, and the Colorado SHPO (Appendix I of the FEIS).	The requirements of the Programmatic Agreement were referenced or included in the construction contract documents for each work package.	No
p. 19, ¶1	Development of the project alternatives will result in impacts to non-renewable historic properties. As a result, it will be necessary to implement a mitigation plan in an effort to resolve any adverse effects. Mitigation may be accomplished through avoidance, implementation of protective measures, or data recovery. If avoidance and preservation are not possible, a data recovery plan may be used to collect and analyze significant information, thus preserving that information. Data collection as a mitigation measure should only be implemented when other means to protect or preserve historic properties have been exhausted or are not feasible. Within the data recovery plan, specific research problems concerning scientific, humanistic, and cultural concerns will be developed. Research also will focus on problems in prehistoric and historic archaeological methods and theory. Ultimately, the data collected likely will provide information regarding the cultures that have occupied the area in the past.	Colorado Springs Utilities prepared a Treatment Plan which addressed how mitigation was determined for each eligible or potentially eligible cultural resource site. The Treatment Plan was executed in June 2011.	No
<b>Participants' Commitments: Indian Trust Assets</b>			
p. 19, ¶1	Continue consultation with Native American Tribes in accordance with the Programmatic Agreement. Under the Agreement, Reclamation and the SDS Participants will coordinate with the tribes to identify and mitigate impacts to any traditional cultural properties or resources.	The requirements of the Programmatic Agreement were referenced or included in the construction contract documents for each work package.	No
<b>Participants' Commitments: Noise and Vibration</b>			
p. 19, Bullet 1	Construction equipment used by contractors shall function as designed and shall conform to applicable noise emission standards.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 19, Bullet 2	Generally adhere to project work hour restrictions (7 a.m. to 7 p.m.) within 500 feet of residences, hospitals, schools, churches, and libraries. Work hours may need to be extended from time to time in order to expeditiously restore traffic flow or public access.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No

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p. 20, Bullet 3	Restrict access to construction areas so that the public could not be in close proximity to loud equipment or blasting.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 4	House project operating equipment (e.g. pump stations) in structures designed to minimize radiated noise outside the structure, and will meet local noise ordinance requirements.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, ¶1	By following existing standards, restricting work hours and access to construction areas, and insulating new noise within structures, noise effects will be minimized by maintaining acceptable noise levels and limiting the number of people exposed to increased noise levels.	As described in the previous four responses, these commitments were incorporated into the construction contract documents to minimize potential construction and operation impacts due to noise and vibration. SDS inspectors regularly visit all active sites.	No
<b>Participants' Commitments: Visual Resources</b>			
p. 20, Bullet 1	Vegetate earthen dam faces with native herbaceous plants to match the adjacent undisturbed prairie plant communities.	This requirement is not applicable yet as the final design of the Upper Williams Creek and Williams Creek Reservoirs did not begin during this reporting period.	No
p. 20, Bullet 2	Revegetate and/or landscape with plants, all disturbances associated with the construction of all facilities.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 3	Restore as many existing grades as practicable following pipeline excavations.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 4	Enclose pump stations and well equipment in structures matching the architectural characteristics of the surrounding structures.	Colorado Springs Utilities coordinated with the Bureau of Reclamation and Pueblo County representatives regarding the proposed architecture for the Juniper Pump Station located at Pueblo Reservoir. On September 20, 2012 and November 1, 2012, Colorado Springs Utilities met with representatives of Pueblo County, Colorado State Parks and the Bureau of Reclamation to present the final architectural and landscape plans for the Juniper Pump Station. On November 8, 2012, Colorado Springs Utilities met with Pueblo County to present the final architectural design of the Juniper Pump Station. On November 13, 2012 the Pueblo County Board of County Commissioners(BOCC) passed and adopted Pueblo County Resolution No. 12-270 appointing Pueblo County's Director of Planning and Development, Joan Armstrong, to be Pueblo County's representative to participate in the final selection of the architecture and landscaping for the Juniper Pump Station along with representatives of Colorado State Parks and the Bureau of Reclamation. The resolution also approved the final stage of the design consisting principally of the exterior treatments and architecture of the proposed pump station, including the colors and building materials to be used, and the landscaping immediately around the proposed structure.	No

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p. 20, Bullet 5	Construct powerlines with non-specular (not shiny) wire, non-reflective and opaque insulators, and light-colored, non-reflective finished poles.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 6	Reclaim construction access roads and staging areas by restoring existing grade and revegetating the area of disturbance.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 7	Apply water with standard construction practices to control airborne fugitive dust within construction areas.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 8	Install baffles on construction lighting fixtures to direct light onto the construction activity only in locations where safety is a concern, scenic quality will be affected, or near occupied homes and businesses.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, ¶1	Restoring existing grades, revegetating disturbed areas, using architectural styles consistent with the area, and designing powerlines to have low visibility will minimize the visual contrast between the surrounding areas and will reduce the visibility of disturbance or new structures from observation points. Reducing airborne fugitive dust and construction lighting will reduce the area affected during construction.	As described in the previous eight responses, these requirements were incorporated into the designs and construction contract documents for each work package to minimize potential impacts to visual resources. For this item and the previous eight, no concerns have been identified to date.	No
<b>Participants' Commitments: Traffic</b>			
p. 20, Bullet 1	Use trenchless construction to the extent practicable when construction features cross railroad lines, state highways, county roadways in densely populated areas, and major city roadways in densely populated areas.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 2	Prepare traffic control plans for approval by state and local traffic authorities and followed by contractors during construction.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 3	Construct traffic signage, signals, acceleration, and deceleration lanes as directed by state and local traffic authorities for access to reservoir sites, treatment plants, and pump stations.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 4	Construct improvements to existing access roads or construction of temporary alternate access roads to reservoir sites, treatment plants, and pump stations as directed by state and local traffic officials.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 5	Modify or reconstruct bridges when the load limits are not adequate for construction of the SDS Project and other access routes are not reasonable.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, ¶1	When implemented, these recommendations will mitigate potential adverse effects on traffic by minimizing delays and promoting traffic safety.	As described in the previous five responses, these commitments were incorporated into the construction contract documents for each work package to minimize potential construction and operations impacts to traffic flow patterns. For this item and the previous five, no concerns have been identified to date.	No
<b>Participants' Commitments: Soils</b>			
p. 21, Bullet 1	Minimize the area of disturbance to defined construction limits and limit the time bare soil is exposed.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 2	Contain soils within the construction area through temporary sediment control measures such as silt fences, sediment logs, trenches, and sediment traps.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No

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Annual Implementation Progress Matrix

Reporting Requirements		CY2016 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
p. 21, Bullet 3	Remove woody vegetation prior to topsoil salvage and, to the extent possible, salvage topsoil within tree stump roots.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 4	Use topsoil salvage methods including windrowing topsoil at the limits of construction and pulling the soil back on slopes during reclamation.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 5	Apply topsoil, soil amendments, fertilizers, and mulches as appropriate, and seed selectively during favorable plant establishment climate conditions to match site conditions and revegetation goals.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 6	To the extent practicable, avoid irrigated lands during final design.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 7	To the extent practicable, allow continued use of lands crossed by project facilities after construction.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 8	Where the proposed pipeline crosses prime farmland soils, develop a soils handling plan that separates the top 6 inches and the soils between 6 and 36 inches for subsequent reclamation.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, ¶1	Proposed mitigation measures will reduce short-term and long-term losses of soil and soil productivity. Redistribution of topsoil to soil-deficient areas will increase soil productivity in those areas. Topsoil, soil amendments, fertilizers, and mulches will increase productivity and help establish cultivated vegetation and crops. A soils handling plan for prime farmland soils will ensure high quality topsoil is preserved and distributed properly.	As described in the previous eight responses, these commitments were incorporated into the construction contract documents for each work package to minimize potential soil erosion and loss during construction. For this item and the previous eight, no concerns have been identified to date.	No
<b>Participants' Commitments: Air Quality</b>			
p. 21, Bullet 1	Develop and implement standard control practices, such as watering, to minimize particulate and dust emissions from construction work sites as specified in the fugitive dust control plan.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 2	Ensure construction equipment (especially diesel equipment) meets opacity standards for operating emissions.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 3	Promptly revegetate disturbed areas.	The SDS Participants incorporated this commitment into the construction contract documents for each of the work packages, as applicable. For Pueblo County work packages, the revegetation contractor coordinated with the construction contractor to begin revegetation efforts following substantial completion of each construction project. For El Paso County Work Packages, each construction contractor had a revegetation sub-contractor perform the work. Revegetation efforts have begun or been completed on all pipeline and facility work packages.	No
p. 21, ¶1	The proposed mitigation measures will reduce both short-term and long-term effects on air quality by following standards on construction equipment and minimizing fugitive dust.	As described in the previous three responses, these commitments were incorporated into the construction contract documents for each work package to minimize potential air quality impacts during construction. For this item and the previous three, no concerns have been identified to date.	No



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Annual Implementation Progress Matrix

Reporting Requirements		CY2016 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
<b>Participants' Commitments: Hazardous Materials</b>			
p. 22, Bullet 1	Remove solid waste and properly dispose of at a permitted solid waste disposal facility prior to construction of project facilities at the site.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable. Contractors met all solid waste and disposal requirements.	No
p. 22, Bullet 2	Inspect the ground surface beneath the solid waste for evidence of hazardous material or petroleum product spills such as soil staining and unusual odors or colors.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 22, Bullet 3	If evidence of a spill or spills is noted, delineate the extent of the spill by laboratory analysis and excavate any contaminated soils and properly dispose of at a permitted waste disposal facility.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 22, Bullet 4	If soil and/or ground water contamination is encountered during construction of project facilities, implement mitigation procedures to minimize the risk to construction workers and to the future operation of the project.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 22, ¶1	The proposed mitigation measures will identify areas of potential contamination from hazardous materials and will remediate the soil and ground water if any contamination was identified.	As described in the previous four responses, these commitments were incorporated into the construction contract documents for each work package to minimize potential for a hazardous materials spill. For this item and the previous four, no concerns have been identified to date.	No
<b>El Paso County - Location Approvals</b>			
Final Resolution, Annual Report Requirement	This approval of location shall be subject to annual reporting by the applicant on January 31 annually and review by Development Services Department to determine compliance with all applicable requirements and standards of the El Paso County regulations and the conditions and safeguards imposed upon the approval of location by the Planning Commission. Upon completion of each periodic review, the Development Services Department shall forward its report and any recommendations to the Planning Commission, Board of County Commissioners and the holder of the approval of location. The annual report shall include:	This Permit Compliance Annual Report is being prepared to demonstrate the progress in successfully implementing the commitments as prescribed in the ROD and the annual reporting requirements found in the other programmatic permits and approvals including: the Pueblo County 1041 Permit, the El Paso County Approval of Locations, El Paso County 1041 Permits, the CDPHE 401 Water Quality Certification and the Fountain Creek Watershed, Flood Control and Greenway District approval.	No
Annual Report Requirement, Sub-Bullet a	Evaluation of compliance with El Paso County conditions of approval	Compliance with the conditions of approval has been documented through the Site Development Plan processes for each work package. The Site Development Plan was approved for finished water pipeline segment FW1A on September 8, 2010, for the S4B/N1A pipeline on April 27, 2011, for the N1B pipeline on July 18, 2011, the Williams Creek Pump Station on July 18, 2011, the FW1B pipeline on August 17, 2011, the Bradley Pump Station Power Supply on October 11, 2012, the S4A East and West Pipeline on October 18, 2012, the N1C pipeline on February 28, 2013, the Williams Creek Pump Station Power Supply on March 1, 2013, the N2A pipeline on June 5, 2013, and the Bradley Pump Station on July 16, 2013.	No

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## Annual Implementation Progress Matrix

Reporting Requirements		CY2016 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
Annual Report Requirement, Sub-Bullet b	Integrated Adaptive Management Plan	The Integrated Adaptive Management Plan (IAMP) was completed and was submitted to the Bureau of Reclamation on March 18, 2011. The requirements of the IAMP were coordinated with the development of the Phase II EMS that Colorado Springs Utilities developed. The plans will be implemented during the operation of the SDS project in accordance with this commitment.	No
Annual Report Requirement, Sub-Bullet c	Dust control report	The construction contract documents required the contractor to obtain an Air Pollution Emissions Notice (APEN) through the Colorado Department of Public Health & Environment and implement dust control measures as necessary to comply with the APEN requirements. Dust was monitored during routine inspections and only exceptions were reported to the County.	No
Annual Report Requirement, Sub-Bullet d	Weed control report	Noxious weed surveys were completed as part of the final design and Site Development Plan processes. A noxious weed management plan was provided to El Paso County as part of the Site Development Plan process. The noxious weed management plan requirements were incorporated into the construction contract documents for each of the work packages.	No
Annual Report Requirement, Sub-Bullet e	Wildlife management report (any occurrences or actions regarding compliance with State or federal requirements)	Wildlife surveys were completed as part of the Site Development Plan process. Habitat and species have been identified and proposed mitigation measures are identified in the wildlife survey report as necessary. Required mitigation measures were initiated prior to construction. The construction contract documents provided direction to the contractor regarding how to handle sensitive wildlife species habitat that could be encountered during construction.	No
Annual Report Requirement, Sub-Bullet f	Cultural resources report (any occurrences or actions regarding compliance with State or federal requirements)	Class III cultural resource surveys were completed for the NEPA corridor. In addition, a process was initiated with Reclamation and SHPO to address cultural resource impacts as a result of construction of SDS in compliance with the Programmatic Agreement. Colorado Springs Utilities prepared a Treatment Plan which addressed how mitigation was determined for each eligible or potentially eligible cultural resource site. The Treatment Plan was executed in June 2011.	No
Annual Report Requirement, Sub-Bullet g	Groundwater and surface water monitoring report addressing water quality and quantity	A Joint Funding Agreement was executed with the U.S. Geological Survey (USGS) on the water quality monitoring program. Water quality monitoring began in January, 2011. See Attachment 3 for the water quality monitoring data.	Attachment 3 - Water Quality Monitoring Data



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## Annual Implementation Progress Matrix

Reporting Requirements		CY2016 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
Annual Report Requirement, Sub-Bullet h	Vegetation monitoring report (status of revegetation efforts)	Revegetation efforts have begun or have concluded on all pipeline and facility work packages. A third party contractor conducted surveys and provided reports on the revegetation coverage and diversity.	No
Annual Report Requirement, Sub-Bullet i	Complaint log and how the issues were resolved	Colorado Springs Utilities is tracking complaints received through a complaints log which includes a description of the follow-up activities that occurred to address or resolve the complaint. See Attachment 4 for the Complaint Log.	Attachment 4 - Complaint Log
Annual Report Requirement, Sub-Bullet j	Emergency response log and how the issues were resolved	Colorado Springs Utilities is tracking emergency response actions through an emergency response log which includes a description of the actions taken to resolve the issue. See Attachment 5 for the Emergency Response Log.	Attachment 5 - Emergency Response Log
Annual Report Requirement, Sub-Bullet k	Log of when work occurred during non-typical work hours (work outside the hours of 7:00 am and 6:00 pm) and rationale by which the work was deemed necessary	The typical work hours were incorporated into the construction contract documents for each of the work packages, as applicable. The contractor received approval to work during non-typical work hours from the El Paso County Department of Transportation prior to the activity. Colorado Springs Utilities tracked work which occurred during non-typical work hours through a log which includes a rationale by which the work was deemed necessary. See Attachment 6 for the Log of Work Occurring During Non-Typical Work Hours.	Attachment 6 - Log of Work Occurring During Non-Typical Work Hours
<b>El Paso County - 1041 Permits</b>			
Final Resolution, Annual Report Requirement	This approval of location shall be subject to annual reporting by the applicant on January 31 annually and review by Development Services Department to determine compliance with all applicable requirements and standards of the El Paso County regulations and the conditions and safeguards imposed upon the approval of location by the Planning Commission. Upon completion of each periodic review, the Development Services Department shall forward its report and any recommendations to the Planning Commission, Board of County Commissioners and the holder of the approval of location. The annual report shall include:	This Permit Compliance Annual Report is being prepared to demonstrate the progress successfully implementing the commitments as prescribed in the ROD and the annual reporting requirements found in the other programmatic permits and approvals including: the Pueblo County 1041 Permit, the El Paso County Approval of Locations, El Paso County 1041 Permits, the CDPHE 401 Water Quality Certification and the Fountain Creek Watershed, Flood Control and Greenway District approval.	No
Annual Report Requirement, Sub-Bullet a	Evaluation of compliance with El Paso County permit conditions	Compliance with the permit conditions is being documented through the Site Development Plan processes for each work package that received a 1041 Permit. The Site Development Plan was approved for finished water pipeline segment FW1C on January 24, 2014, for finished water pipeline segment FW3 on January 29, 2014, and for the S4A Central pipeline on February 18, 2014.	No

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## Annual Implementation Progress Matrix

Reporting Requirements		CY2016 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
Annual Report Requirement, Sub-Bullet b	State Inspection Reports	There were no state inspections at FW1C, FW3, or S4A Central during the reporting period.	No
Annual Report Requirement, Sub-Bullet c	Federal Inspection Reports	There were no federal inspections at FW1C, FW3, or S4A Central during the reporting period.	No
Annual Report Requirement, Sub-Bullet d	Dust control report	The construction contract documents required the contractor to obtain an Air Pollution Emissions Notice (APEN) through the Colorado Department of Public Health & Environment and to implement dust control measures as necessary to comply with the APEN requirements. Dust was monitored during routine inspections and only exceptions were reported to the County.	No
Annual Report Requirement, Sub-Bullet e	Weed control report	Noxious weed surveys were completed as part of the final design and Site Development Plan processes. A noxious weed management plan was provided to El Paso County as part of the Site Development Plan. The noxious weed management plan requirements were incorporated into the construction contract documents for each of the work packages.	No
Annual Report Requirement, Sub-Bullet f	Wildlife management report (any occurrences or actions regarding compliance with State or federal requirements)	Wildlife surveys were completed as part of the Site Development Plan process. Habitat and species were identified and proposed mitigation measures incorporated into the wildlife survey report as necessary. Required mitigation measures were initiated prior to construction. The construction contract documents provided direction to the contractor regarding how to handle sensitive wildlife species habitat that could be encountered during construction.	No
Annual Report Requirement, Sub-Bullet g	Cultural resources report (any occurrences or actions regarding compliance with State or federal requirements)	Class III cultural resource surveys were completed for the NEPA corridor. In addition, a process was initiated with Reclamation and SHPO to address cultural resource impacts as a result of construction of SDS in compliance with the Programmatic Agreement. Colorado Springs Utilities prepared a Treatment Plan which addressed how mitigation was determined for each eligible or potentially eligible cultural resource site. The Treatment Plan was executed in June 2011.	No
Annual Report Requirement, Sub-Bullet h	Groundwater and surface water monitoring report addressing water quality and quantity	A Joint Funding Agreement was executed with the U.S. Geological Survey (USGS) on the water quality monitoring program. Water quality monitoring began in January, 2011. See Attachment 3 for the water quality monitoring data.	Attachment 3 - Water Quality Monitoring Data

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## Annual Implementation Progress Matrix

Reporting Requirements		CY2016 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
Annual Report Requirement, Sub-Bullet i	Vegetation monitoring report (status of revegetation efforts)	Revegetation efforts continued for the FW3, FW1C and S4A Central work packages. A contractor will conduct surveys and provide reports in the coming year on the revegetation coverage and diversity.	No
Annual Report Requirement, Sub-Bullet j	Complaint log and how the issues were resolved	Colorado Springs Utilities tracked complaints received through a complaints log which includes a description of the follow-up activities that occurred to address or resolve the complaint. See Attachment 4 for the Complaint Log.	Attachment 4 - Complaint Log
Annual Report Requirement, Sub-Bullet k	Emergency response log and how the issues were resolved	Colorado Springs Utilities tracked emergency response actions through an emergency response log which included a description of the actions taken to resolve the issue. There were no emergency responses required during the reporting period.	Attachment 5 - Emergency Response Log
Annual Report Requirement, Sub-Bullet l	Log of when work occurred during non-typical work hours (work outside the hours of 7:00 am and 6:00 pm) and rationale by which the work was deemed necessary	The typical work hours were incorporated into the construction contract documents for each of the work packages, as applicable. The contractor received approval to work during non-typical work hours from the El Paso County Department of Transportation prior to the activity. Colorado Springs Utilities tracked work which occurs during non-typical work hours through a log which included a rationale by which the work was deemed necessary. See Attachment 6 for the Log of Work Occurring During Non-Typical Work Hours.	Attachment 6 - Log of Work Occurring During Non-Typical Work Hours

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Annual Implementation Progress Matrix

Reporting Requirements		CY2016 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
<b>Pueblo County - 1041 permit</b>			
7. Expenditures for Wastewater System Improvements, p. 12	In order to continue its efforts to protect against future spills to Fountain Creek, to increase its opportunities for reuse, and to mitigate possible water quality impacts by the SDS Project to Fountain Creek, Colorado Springs Utilities shall commit to invest an additional \$75,000,000 in its wastewater system. Expenditures will be made as part of the wastewater collection system rehabilitation programs or wastewater reuse systems between January 1, 2009 and December 31, 2024 as required. These expenditures shall be for projects not currently required by other regulatory permits, agency enforcement or court orders, consent agreements, or governmental regulations existing as of January 30, 2009. These expenditures will include the Local Collector Evaluation and Rehabilitation Program (LCERP) for the improvement and fortification of wastewater lines which could adversely affect Fountain Creek or its tributaries. These expenditures are subject to annual appropriation by the Colorado Springs City Council. Beginning in 2010, by January 31 of each year, Colorado Springs Utilities shall provide an annual report to Pueblo County describing such expenditures for the prior year.	Colorado Springs Utilities submitted a wastewater expenditures report documenting 2009 expenditures to Pueblo County on January 29, 2010. Colorado Springs Utilities prepared a report documenting 2010 expenditures which was submitted to Pueblo County on January 31, 2011. The report for 2011 was submitted to Pueblo County on January 26, 2012. The report for 2012 was submitted to Pueblo County on January 31, 2013. The report for 2013 was submitted to Pueblo County on January 31, 2014. The report for 2014 was submitted to Pueblo County on January 28, 2015. The report for 2015 was submitted to Pueblo County on January 16, 2016. The report for 2016 is being prepared and will be submitted to Pueblo County with this Annual Report on or before January 31, 2017.	Attachment 7 - Expenditures for Wastewater System Improvements Annual Report for 2016
25. Compliance Monitoring and Reporting, p. 18	Applicant shall monitor and periodically report to Pueblo County on its compliance with this Permit. During project construction in Pueblo County, Applicant will submit a quarterly report to Pueblo County summarizing the activities during that period, forecasting activities scheduled for the upcoming period, and addressing compliance with the terms and conditions of the Permit. After commencing deliveries of water through the SDS pipeline, Applicant shall submit annual reports to Pueblo County summarizing its activities related to the SDS Project, the Permit, and addressing compliance with the terms and conditions of the Permit. Pueblo County may, at its discretion, hold public reviews of the reports and Permit compliance, including hearings in accordance with its regulations. <i>See Mitigation Appendix ENF-1.</i>	Colorado Springs Utilities has prepared and submitted a quarterly report for 4th Quarter 2015, 1st Quarter 2016, and 2nd Quarter 2016 during this reporting period. As construction activities were concluded in 2nd Quarter 2016, the last quarterly construction report was submitted in July 2016. This report will satisfy the requirement for the annual report following delivery of water through the SDS pipeline.	No

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Annual Implementation Progress Matrix

Reporting Requirements		CY2016 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
Mitigation Appendix ENF-1, Project Detail, Item 1, p. 22 of 28	<p>1. Submit a quarterly report during project construction in Pueblo County that will provide a summary of activities related to the Conditions of the permit. The report will summarize the activities occurring in the reporting period, and a forecast of activities planned in the upcoming period. Contents of the report will include (as applicable):</p> <ul style="list-style-type: none"> <li>a. Safety incident log.</li> <li>b. Citizen call log.</li> <li>c. Description of mitigation and restoration activities (i.e., quantity and location of repaired road surface, reseeding, etc.).</li> <li>d. List of non-compliance issues by contractors (silt releases, work hour infractions, fines and penalties).</li> <li>e. Sustainable construction practices employed.</li> <li>f. Schedule and key milestones met and forecast.</li> <li>g. Location and extent of excavations.</li> <li>h. Instances of work outside normal work hours, except maintenance activities.</li> <li>i. Status of site maintenance, security and access control to properties.</li> <li>j. Location and extent of dewatering activities.</li> <li>k. Status of other required permits, including compliance with the programmatic agreement to protect cultural resources.</li> <li>l. Dust monitoring summary.</li> <li>m. Status of drainage and erosion control measures.</li> <li>n. Status of plant and wildlife protection requirements.</li> <li>o. Status of measures to protect surface and groundwater flows.</li> <li>p. Status of livestock protection measures.</li> <li>q. Status of Clear Spring Ranch project.</li> <li>r. Status of pump station architectural review.</li> <li>s. Status of land acquisition.</li> <li>t. Status of compliance with requirements concerning Pueblo County Roads.</li> <li>u. Status of dredging at the levees on Fountain Creek in Pueblo.</li> <li>v. Status of reclamation and bonding for disturbed areas.</li> <li>w. Status of the written MOU for construction and use of the North River Outlet Works.</li> <li>x. Acceptance of the design of structures at Lake Pueblo Dam by the BOR.</li> <li>y. Status of conservation strategies, local reuse, stormwater management, drainage regulations and enforcement.</li> <li>z. Status of stormwater and wastewater system improvements per permit commitments.</li> <li>aa. Status of NEPA, ROD, contract negotiations with BOR and notice of NEPA-required mitigation and any project changes resulting from contract negotiations.</li> <li>bb. Status of payments in lieu of property taxes.</li> <li>cc. Copies of the annual reports on the SDS Project submitted to Reclamation.</li> </ul>	Colorado Springs Utilities has prepared and submitted a quarterly report for 4th Quarter 2015, 1st Quarter 2016, and 2nd Quarter 2016 during this reporting period. As construction activities were concluded in 2nd Quarter 2016, the last quarterly construction report was submitted in July 2016. Copies of the quarterly reports were provided to the BOR.	No

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Annual Implementation Progress Matrix

Reporting Requirements		CY2016 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
Mitigation Appendix ENF-1, Project Detail, Item 2, p. 23 of 28	2. Submit an annual report to Pueblo County that will provide a summary of activities related to the SDS Project and the Conditions of the Permit. These reports will be due annually on or before January 31, beginning the year following commencement of water deliveries through the SDS pipeline. The reports shall include a signed certification of compliance with the Permit. Contents of the report will include, but will not be necessarily limited to:	This report will satisfy the requirement for the annual report following delivery of water through the SDS pipeline.	
	a. Summary of storage, diversion, delivery of water in Pueblo County.	Summary data from the project Participants in located in Attachment 8.	Attachment 8 - Summary of Storage, Diversion, Delivery of Water in Pueblo County
	b. Summary of Participants' return flows to Fountain Creek including storage and releases of such return flows (maximum daily flows, average annual and monthly flows and amounts).	Summary data from the project Participants in located in Attachment 9.	Attachment 9 - Summary of Participants' Return Flows to Fountain Creek Including Storage and Releases of Such Return Flows
	c. Summaries of exchanges by Participants between Pueblo Reservoir and the Fountain Creek confluence (monthly and annual rates of flow and quantities).	Summary data from the project Participants in located in Attachment 10.	Attachment 10 - Summaries of Exchanges by Participants between Pueblo Reservoir and the Fountain Creek Confluence
	d. Use of any new water rights to be delivered or stored through SDS (amount, time, source).	There were no new water rights to be delivered or stored through SDS during the reporting period.	No
	e. Water quality monitoring.	A Joint Funding Agreement was executed with the U.S. Geological Survey (USGS) on the water quality monitoring program. Water quality monitoring began in January, 2011. See Attachment 3 for the water quality monitoring data.	Attachment 3 - Water Quality Monitoring Data
	f. Geomorphology monitoring.	Data is not yet available for post-construction reporting period. USGS will provide data once quality assurance review is complete. Data will be provided in the next Annual Report.	Attachment 11 - Geomorphology Monitoring

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Annual Implementation Progress Matrix

Reporting Requirements		CY2016 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
	g. Status of adaptive management plans on Fountain Creek.	<p>The Monitoring Plan and Integrated Adaptive Management Plan were submitted to the Bureau of Reclamation on March 18, 2011 and accepted by Reclamation on March 24, 2011. The Geomorphic Mitigation Plan was submitted to Reclamation on March 15, 2011 and approved April 26, 2011.</p> <p>Colorado Springs Utilities participates in a Joint Funding Agreement with the USGS regarding implementation of the Monitoring Plan.</p>	No
	h. Status of payments into the Fountain Creek monetary mitigation fund.	<p>The first installment of \$100,000 was paid via Electronic Funds Transfer (EFT) on September 4, 2009. The EFT identification number for this transaction is 17350. The second installment of \$100,000 was paid via EFT on June 29, 2010. The EFT identification number for this transaction is 21087. The third installment of \$100,000 was paid via EFT on June 28, 2011. The EFT identification number for this transaction is 26356. A further mutually agreed upon advance of \$300,000 was made to the Fountain Creek District in 2009. An understanding between SDS and Pueblo County has been finalized relative to the indexing calculation method. The first of the remaining 5 payments, in the amount of \$9,578,817, was paid to the Fountainn Creek District on May 19, 2016.</p>	No
	i. Status of expenditures for wastewater system improvements for Participants (and third party users in the Fountain Creek basin) per Permit Conditions.	<p>The report for 2016 is being prepared and will be submitted to Pueblo County with this Annual Report on or before January 31, 2017.</p>	Attachment 7 - Expenditures for Wastewater System Improvements Annual Report for 2016
	j. Reports on the operation of the Pueblo Flow Management Program and the Low Flow Program (rates, and quantities, and times of foregone exchanges, releases, and reception documentation).	<p>A Memorandum of Understanding (MOU) was executed between the Pueblo Board of Water Works and Colorado Springs Utilities on April 17, 2009 that provides the terms and conditions under which each of the entities will contribute to and assist in the maintenance of a storage pool in Pueblo Reservoir. Flow management operations are shown in Attachments 8, 9, and 10. No releases were necessary in 2016.</p>	Attachments 8 through 10.

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Annual Implementation Progress Matrix

Reporting Requirements		CY2016 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
	k. Status of lake level management cooperative efforts with other entities at Pueblo Reservoir.	Colorado Springs Utilities remains committed to participate in the development of a reservoir management plan for Pueblo Reservoir at such time as the Bureau of Reclamation and the Southeastern Colorado Water Conservancy District decide to proceed forward.	No
	l. Status of conservation and local reuse.	Colorado Springs Utilities, on behalf of the SDS Participants, remains committed to incorporating conservation and local reuse as important aspects of its water management plan. Colorado Springs Utilities prepared the 2015 Water Use Efficiency Plan which identifies and reports on conservation measures. Colorado Springs Utilities continues to evaluate conservation and additional reuse in its Integrated Water Resources Plan, which is currently being updated.	No
	m. Payments to Pueblo County in lieu of property taxes.	The payment in-lieu of property tax for 2016 for the properties acquired in Pueblo County was made on April 25, 2016.	No
	n. Copies of the annual reports on the SDS Project submitted to Reclamation.	This report will satisfy the requirement for the annual report following delivery of water through the SDS pipeline.	No
<b>CDPHE - 401 Water Quality Certification</b>			
Certification Statement, Bullet 4, p. 6	All collected raw data and annual reports developed as a requirement of other agency conditions will be submitted to the Division at the same time they are submitted to the requiring regulatory agency. Data and reports will be submitted directly to the Environmental Data Unit in an electronic data format agreed to by the Division.	The SDS Permit Compliance Annual Report for Calendar Year 2016 has been prepared to address the annual reporting requirements for all of the major programmatic permits. Colorado Springs Utilities will post this annual report to the SDS website (sdswater.org) where it can be accessed by all interested regulatory agencies or members of the public. Pertinent raw data and reports are being submitted as part of this annual report, of which CDPHE is a recipient.	No
<b>Fountain Creek WFCGD - Resolution 2010-01</b>			
Technical Advisory Committee Condition 2, p. 3 (Also Citizen Advisory Committee Condition 2)	<p>The Integrated Adaptive Management Plan (IAMP) shall be submitted to the District for review, and periodic reports on water quality and quantity shall be provided to the District.</p> <p>The Integrated Adaptive Management Plan (IAMP) will include how mitigation will be performed in case there are problems that were not anticipated during the project. This will include means and methods to address impacts from the project and specific triggers to initiate the process. Once the IAMP is finalized there will be an opportunity for comment.</p>	The IAMP has been completed and was submitted to the Bureau of Reclamation on March 18, 2011. The IAMP has been provided to the District.	No



# Monthly Average Flow Data from USGS Gauge Station No. 07106500 Fountain Creek at Pueblo

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The USGS provides data based on a water year (October through September).

ATTACHMENT 2

USGS Gauge Station No: 07106500

FOUNTAIN CREEK AT PUEBLO, CO

Pueblo County, Colorado

Hydrologic Unit Code 11020003

Latitude 38°17'16", Longitude 104°36'02" NAD27

Drainage area 925 square miles

Gage datum 4,705 feet above sea level NGVD29

00060, Discharge, cubic feet per second,														
YEAR	Monthly mean in cfs (Calculation Period: 2015-10-01 -> 2016-09-30)												Annual Average Flow	Long-Term Average Annual Simulated Streamflow
	Period-of-record for statistical calculation restricted by user													
	2015			2016										
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep		
Mean of Monthly Discharge	185.7	177.6	151.0	171.5	188.0	172.9	223.6	307.8	276.8	194.0	257.3	142.8	204.1	253.0

- Notes:
- 1. No incomplete data has been used for the statistical calculations shown in the table.
  - 2. Data in this table is from USGS National Water Information System: Web Interface ([waterdata.usgs.gov/nwis/monthly](http://waterdata.usgs.gov/nwis/monthly)).
  - 3. The annual average is computed from the monthly mean data published by the U.S. Geological Survey.
  - 4. The long-term average annual simulated streamflow for the preferred alternative (Alt 2) was taken from Table 33 of the FEIS.
  - 5. Data is provisional until it goes through the USGS quality assurance process.

# Water Quality Monitoring Data

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A Joint Funding Agreement was executed with the USGS to begin the water quality monitoring program in January, 2011. Data are provisional until they go through the USGS quality assurance process. Cells shaded in blue represent data that exceed CDPHE Reg. 32 Water Quality for Middle Arkansas River Basin segment 3, Lower Arkansas River Basin segment 1a, and Fountain Creek Basin segments 1a, 2a, 2b, and 6 standards.

Location	Date	Flow	Barometric pressure	Dissolved oxygen	pH	Specific conductance	Temperature	Turbidity	Escherichia coli	Total coliform	Note	Ammonia	Note	Selenium
Standards (if applicable)									126		See Note			4.6
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20151016	19	618	9.8	8.3	312	7.2	1	310	>2400		<0.02		0.12
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20151102	17	608	10	8.3	316	6.6	1	160	>2400		<0.02		0.13
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20151208	19	609	10.6	8.2	320	3.3	3	280	1700		<0.02		0.15
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20160107	19	602	10.6	8.2	320	1.7	3	200	1700		<0.02		0.19
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20160204	E15	611	11.7	8	355	0	2	120	820		0.03		0.22
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20160309	11	606	10.4	8.3	367	5.5	4.3	75	910		<0.02		0.2
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20160408	21	613	10.3	7.8	298	4.6	6.7	180	1700		<0.02		0.16
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20160503	42	614	10.1	7.9	265	5.9	16	72	980		<0.02		0.21
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20160607	36	610	8.9	8.1	227	10.4	14	170	>2400		0.06		0.15
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20160707	18	610	8.2	8.0	275	13.8	13	370	7700		<0.02		0.13
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20160801	11	612	8.1	8.0	339	15.7	3.4	1600	8700		<0.02		0.16
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20160908	29	609	8.5	8.0	207	11.8	11	920	>2400		<0.02		0
Standards (if applicable)									126		See Note			4.6
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20151016	60	622	9.1	8.5	736	12	73	340	1000		<0.02		2.9
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20151104	54	607	9.2	8.5	721	11.1	56	170	>2400		0.03		3
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20151208	53	612	10.2	8.4	808	6	63	120	2400		0.21		3
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20160112	40	616	11.2	8.2	960	2.5	13	28	280		0.18		3.6
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20160209	68	619	9.7	8.3	1020	8.4	44	980	2400		0.08		2.2
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20160308	37	610	10.7	8.3	675	5.0	22	21	1400		0.04		2.8
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20160405	79	612	9.4	8.2	576	9.1	140	210	>2400		<0.02		1.9
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20160502	E128	616	8.9	8.2	449	12.1	53	100	>2400		0.03		1.4
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20160606	87	615	7.2	8.2	493	21.6		94	4400		0.26		1.6
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20160706	65	613	7.2	8.3	559	23.1	34	360	11000		0.25		1.6
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20160802	37	618	7.0	8.4	633	26.1	16	320	>24000		0.02		2
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20160907	52	614	7.5	8.4	694	20.8	28	500	17000		<0.02		0
Standards (if applicable)									126		See Note			4.8
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20151014	69	619	8.7	8.5	753	14.4	25	240	>2400		<0.02		3.1
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20151104	53	609	9.8	8.4	718	8.1	7	83	2000		<0.02		2.8
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20151203	60	620	11.3	8	871	2.2	6	50	2400		0.04		3.2
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20160112	75	617	11.6	8.2	797	1.8	19	17	460		0.08		2.9
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20160210	69	618	11.6	8	1010	1.5	23	88	1000		0.04		2.3
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20160308	55	612	10.6	8.3	675	6.6	17	13	650		0.02		2.6
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20160405	100	613	9.1	8.2	579	11.2	93	150	>2400		<0.02		1.9
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20160503	235	619	9.9	8.0	412	7.0	110	130	>2400		<0.02		1.1
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20160606	139	616	7.5	8.0	425	18.9		140	7300		0.04		1.3
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20160707	74	615	7.9	8.0	559	16.9	16	230	13000		0.03		1.7
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20160802	65	619	6.8	8.3	651	24.6	12	310	>24000		0.02		1.9
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20160908	76	614	8.1	8.1	527	15.0	26	340	6900		<0.02		0

Location	Date	Flow	Barometric pressure	Dissolved oxygen	pH	Specific conductance	Temperature	Turbidity	Escherichia coli	Total coliform	Note	Ammonia	Note	Selenium
Standards (if applicable)									126		See Note			4.8
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20151013	104	622	8.4	8.2	779	15.9	4	330	>2400		0.03		2.8
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20151104	108	611	9.2	8.2	753	12.1	6	110	>2400		0.02		2.7
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20151203	83	622	10.6	8.2	886	8.5	5	78	2400		0.04		3.1
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20160112	116	617	10.6	8.4	828	6.7	11	38	520		0.07		2.9
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20160210	121	620	10.5	8.2	926	7.9	14	89	1600		0.03		2.3
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20160308	141	613	10.1	8.1	723	10.7	16	20	920		0.06		2.6
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20160405	105	615	9.0	8.2	663	14.9	57	160	>2400		0.03		2.2
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20160503	235	620	9.9	7.8	476	7.3	86	210	2400		0.09		1.5
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20160607	193	617	7.9	8.1	546	18.7	29	150	7300		<0.02		1.8
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20160707	111	616	7.9	7.9	666	16.8	15	320	7200		0.05		2.2
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20160801	103	618	7.6	8.2	715	24.9	20	680	>24000		0.05		2.2
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20160908	123	616	8.0	8.0	676	16.6	8.6	240	6900		<0.02		0
Standards (if applicable)									126		See Note			4.8
FOUNTAIN CREEK AT SECURITY, CO	20151015	109	626	8.6	8.4	872	12	14	160	>2400		0.12		3.3
FOUNTAIN CREEK AT SECURITY, CO	20151102	138	618	8.5	8.4	799	14.6	21	64	>2400		0.19		3.2
FOUNTAIN CREEK AT SECURITY, CO	20151203	93	625	9.9	8.3	1040	7.5	18	27	920		0.25		3.9
FOUNTAIN CREEK AT SECURITY, CO	20160107	151	613	10.1	8.4	811	5.7	26	93	>2400		0.27		3.4
FOUNTAIN CREEK AT SECURITY, CO	20160210	141	624	10.2	8.2	1100	7.4	46	79	2400		0.18		3
FOUNTAIN CREEK AT SECURITY, CO	20160308	128	617	9.4	8.6	788	13.3	25	11	2000		0.22		3.1
FOUNTAIN CREEK AT SECURITY, CO	20160406	122	625	9.1	8.1	728	13.4	48	28	>2400		0.04		2.9
FOUNTAIN CREEK AT SECURITY, CO	20160504	276	626	9.4	7.7	523	9.1	73	68	>2400		0.24		1.9
FOUNTAIN CREEK AT SECURITY, CO	20160607	226	622	7.1	8.3	597	22.1	51	300	6100		0.15		2.1
FOUNTAIN CREEK AT SECURITY, CO	20160707	173	621	6.7	8.3	728	25.5	44	200	7300		0.13		2.5
FOUNTAIN CREEK AT SECURITY, CO	20160801	141	622	6.7	8.2	789	27.4	50	200	>24000		0.20		2.7
FOUNTAIN CREEK AT SECURITY, CO	20160901	197	624	7.7	8.1	707	17.7	45	340	>24000		0.08		0
Standards (if applicable)									126		See Note			4.8
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20151008	174	630	8.2	8	790	13.6	97	1000	1000		<0.02		2.8
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20151104	164	618	8.2	8.4	935	13.7	31	45	>2400		<0.02		3.5
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20151207	106	628	10.8	8.2	1030	2.4	26	110	>2400		0.14		3.7
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20160105	130	620	10.5	8.3	907	5.3	24	120	2000		0.12		3.7
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20160208	153	634	10.6	8.1	1320	5.5	36	88	1400		0.26		3.2
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20160307	111	614	9.0	8.4	916	11.4	20	30	690		0.18		3.5
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20160404	165	630	8.9	8.0	841	11.5	33	69	1400		0.18		2.9
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20160504	232	630	8.8	8.1	645	12.1	81	86	2000		0.06		2.2
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20160609	265	624	7.7	8.1	610	18.3	95	560	6900		<0.02		1.9
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20160711	126	622	7.3	7.9	809	18.3	36	230	16000		<0.02		2.6
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20160803	102	628	7.2	8.1	905	20.4	26	240	>24000		0.03		2.8
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20160901	190	628	7.4	8.2	807	19.8	53	360	14000		<0.02		0

Location	Date	Flow	Barometric pressure	Dissolved oxygen	pH	Specific conductance	Temperature	Turbidity	Escherichia coli	Total coliform	Note	Ammonia	Note	Selenium
Standards (if applicable)									126		See Note			4.8
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20151008	200	632	7.9	8.2	840	16	100	2000	2400		0.02		2.9
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20151104	153	620	8.3	8.4	989	14	21	18	2400		<0.02		3.6
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20151207	113	631	10.9	8.2	1080	3	27	160	>2400		0.13		3.9
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20160105	134	621	10.1	8.4	947	6.6	27	39	1100		0.06		4
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20160208	161	636	10.4	8.2	1340	7	39	32	1100		0.15		3.6
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20160307	127	616	9.0	8.4	963	11.2	22	10	550		0.06		3.8
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20160404	164	632	8.6	8.2	892	13.9	49	22	1700		0.07		3.3
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20160504	261	632	8.3	8.1	720	15.2	82	0		1	<0.02		2.8
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20160609	213	627	7.2	8.2	670	21.6	88	330	16000		0.02		2.2
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20160711	124	624	7.2	8.1	871	20.2	37	200	13000		<0.02		2.8
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20160803	113	630	6.9	8.2	989	23.9	19	140	14000		0.02		3
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20160901	256	631	7.2	8.1	857	21.3	77	300	20000		<0.02		0
Standards (if applicable)									126		See Note			4.8
FOUNTAIN CREEK NEAR PINON, CO	20151015	121	641	8.7	8.4	1040	13.2	100	310	>2400		<0.02		3.4
FOUNTAIN CREEK NEAR PINON, CO	20151102	166	631	8.2	8.4	998	15.7	58	60	>2400		<0.02		3.6
FOUNTAIN CREEK NEAR PINON, CO	20151207	124	638	10.9	8.3	1130	3.5	67	410	2400		0.04		3.9
FOUNTAIN CREEK NEAR PINON, CO	20160105	168	629	9.9	8.4	1000	6.3	80	15	1000		0.1		4.2
FOUNTAIN CREEK NEAR PINON, CO	20160208	188	643	10	8.3	1360	8.2	96	40	>2400		0.09		4
FOUNTAIN CREEK NEAR PINON, CO	20160307	134	624	8.8	8.4	1030	13.6	45	11	400		0.03		4.1
FOUNTAIN CREEK NEAR PINON, CO	20160404	169	640	8.3	8.2	980	17.3	78	32	920		<0.02		3.7
FOUNTAIN CREEK NEAR PINON, CO	20160504	262	640	7.9	8.2	821	18.6	130	0		2	<0.02		3.3
FOUNTAIN CREEK NEAR PINON, CO	20160609	223	635	6.8	8.3	793	25.4	160	520	>24000		<0.02		2.7
FOUNTAIN CREEK NEAR PINON, CO	20160711	102	631	6.9	8.2	927	23.8	92	230	20000		<0.02		3.1
FOUNTAIN CREEK NEAR PINON, CO	20160803	101	638	6.6	8.2	1020	27.5	64	210	20000		0.03		3.3
FOUNTAIN CREEK NEAR PINON, CO	20160907	135	637	7.2	8.4	964	23.9	61	97	8700		<0.02		0
Standards (if applicable)									126		See Note			4.8
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20151008	210	646	7.4	8.4	989	21.1	220	1500	>24000		<0.02		3.3
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20151103	190	638	10	8.5	1060	8.4	230	230	>2400		<0.02		3.9
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20151202	114	645	11.5	8.4	1240	1.4	46	36	2000		<0.02		4.9
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20160105	186	635	10.3	8.5	1070	5.4	120	33	>2400		0.06		4.9
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20160203	173	645	10.9	8.3	1110	3.9	180	4	1400		0.08		4.9
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20160307	159	630	8.9	8.5	1090	12.6	95	3	390		<0.02		5
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20160404	174	644	8.2	8.3	1050	19.0	84	8	550		<0.02		4.5
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20160505	285	644	8.8	8.1	828	12.6	190	49	>2400		<0.02		3.9
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20160608	294	638	6.9	8.3	816	23.2	520	1500	>24000		0.02		3.3
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20160706	117	639	6.4	8.3	956	30.2	66	98	5500		<0.02		3.7
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20160804	85	643	7.4	8.2	1070	20.9	110	240	24000		<0.02		4.6
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20160906	170	640	8.1	8.3	1000	16.9	110	200	20000		<0.02		5.2

Location	Date	Flow	Barometric pressure	Dissolved oxygen	pH	Specific conductance	Temperature	Turbidity	Escherichia coli	Total coliform	Note	Ammonia	Note	Selenium
Standards (if applicable)									126		See Note			28.1
FOUNTAIN CREEK AT PUEBLO, CO.	20151008	187	646	7.2	8.4	1010	21.8	220	1900	>24000		<0.02		5.3
FOUNTAIN CREEK AT PUEBLO, CO.	20151103	195	639	9.5	8.5	1080	10.9	220	110	>2400		<0.02		6
FOUNTAIN CREEK AT PUEBLO, CO.	20151203	135	647	10.1	8.4	1230	8	92	6	>2400		<0.02		7.7
FOUNTAIN CREEK AT PUEBLO, CO.	20160111	145	644	12.2	8.3	1250	0	94	27	>2400		0.07		6.9
FOUNTAIN CREEK AT PUEBLO, CO.	20160210	242	645	10	8.3	1250	9	160	28	910		0.04		5.9
FOUNTAIN CREEK AT PUEBLO, CO.	20160308	167	638	9.0	8.5	1100	13.5	73	2	340		<0.02		7.3
FOUNTAIN CREEK AT PUEBLO, CO.	20160404	175	643	7.8	8.3	1080	18.3	81	8	600		<0.02		6.6
FOUNTAIN CREEK AT PUEBLO, CO.	20160502	372	645	8.1	8.4	890	17.3	280	28	>2400		<0.02		5.3
FOUNTAIN CREEK AT PUEBLO, CO.	20160613	320	647	7.7	8.3	844	19.8	400	980	24000		<0.02		4.8
FOUNTAIN CREEK AT PUEBLO, CO.	20160705	187	640	6.5	8.3	958	28.3	110	370	20000		<0.02		5.7
FOUNTAIN CREEK AT PUEBLO, CO.	20160803	126	643	6.4	8.3	1080	29.9	83	250	17000		0.02		7
FOUNTAIN CREEK AT PUEBLO, CO.	20160901	264	645	6.9	8.2	892	25.0	190	330	>24000		<0.02		0
Standards (if applicable)									126		See Note			28.1
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20151015	128	650	7.7	8.5	1150	19.1	90	160	820		<0.02		7.1
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20151103	198	637	8.4	8.5	1100	15.4	160	81	>2400		0.02		6.6
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20151202	122	646	10.1	8.4	1280	7.2	52	11	1600		0.06		8.4
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20160111	150	646	12.4	8.3	1060	-0.1	80	23	>2400		0.07		7.1
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20160211	266	645	10.7	8.2	1270	6.2	320	83	>2400		0.03		5.5
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20160310	168	646	9.2	8.4	1120	13.5	85	9	240		<0.02		7.3
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20160404	188	644	7.7	8.3	1090	19.8	82	2	870		<0.02		6.7
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20160505	274	645	8.0	8.2	903	18.9	190	50	>2400		<0.02		5.6
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20160608	302	641	7.2	8.3	850	21.2	510	1700	>24000		<0.02		4.6
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20160705	173	642	6.7	8.2	972	26.8	130	330	>24000		<0.02		5.6
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20160804	91	646	7.0	8.4	1120	23.9	100	140	17000		<0.02		8.2
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20160906	175	643	7.1	8.3	1040	24.0	120	86	16000		<0.02		7.5
Standards (if applicable)									126		See Note			17.1
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20151015	139	650	9.2	8.7	567	17.9	0	35	>2400		<0.02		10.6
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20151103	408	638	9.3	8.7	522	15.7	7	4	1400		<0.02		7.1
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20151202	92	647	11.6	8.7	715	6.5	0	9	310		<0.02		20.7
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20160111	68	646	12.6	8.4	815	0.4	1	100	770		<0.02		24.4
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20160203	75	646	13	8.3	744	3.4	1	3	330		0.12	3	21
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20160310	291	647	12.4	8.6	539	6.2	2.6	<1	160		<0.02		8.3
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20160406	683	647	11.9	8.4	507	7.5	3.5	1	220		<0.02		6.6
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20160505	398	646	11.7	8.7	563	10.7	1.3	8	190		<0.02		8.7
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20160613	3170	645	9.6	8.4	503	14.1	6.6	1800	17000		0.02		5
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20160705	1450	643	8.7	8.3	373	17.8	9.5	62	1800		<0.02		3.4
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20160804	587	647	8.8	8.3	346	19.8	8.7	290	8700		<0.02		3.7
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20160906	288	643	9.1	8.6	465	20.3	5.9	180	>2400		<0.02		8.2

Location	Date	Flow	Barometric pressure	Dissolved oxygen	pH	Specific conductance	Temperature	Turbidity	Escherichia coli	Total coliform	Note	Ammonia	Note	Selenium
Standards (if applicable)									126		See Note			14.1
ARKANSAS RIVER NEAR AVONDALE, CO.	20151015	377	653	8.7	8.5	883	17.6	27	26	>2400		<0.02		9.9
ARKANSAS RIVER NEAR AVONDALE, CO.	20151103	671	642	9.2	8.4	763	13.4	46	54	2400		<0.02		8.1
ARKANSAS RIVER NEAR AVONDALE, CO.	20151202	365	651	11.2	8.4	1070	3.3	29	30	2000		0.03		13
ARKANSAS RIVER NEAR AVONDALE, CO.	20160106	335	643	11.4	8.3	1090	1.5	53	28	1600		0.06		13.5
ARKANSAS RIVER NEAR AVONDALE, CO.	20160203	331	650	12	8.1	1060	1.5	50	16	520		0.03		13
ARKANSAS RIVER NEAR AVONDALE, CO.	20160310	491	652	10.6	8.4	838	7.5	34	26	390		<0.02		9.2
ARKANSAS RIVER NEAR AVONDALE, CO.	20160406	891	650	9.8	8.2	699	7.2	34	20	980		<0.02		7.6
ARKANSAS RIVER NEAR AVONDALE, CO.	20160505	903	649	8.7	8.2	732	13.8	140	200	>2400		<0.02		8.1
ARKANSAS RIVER NEAR AVONDALE, CO.	20160613	3360	650	8.4	8.2	563	15.2	45	97	6900		<0.02		5.7
ARKANSAS RIVER NEAR AVONDALE, CO.	20160705	1770	646	7.7	7.9	514	17.9	63	120	16000		<0.02		4.8
ARKANSAS RIVER NEAR AVONDALE, CO.	20160804	818	648	7.5	8.2	590	21.2	87	170	>24000		<0.02		5.9
ARKANSAS RIVER NEAR AVONDALE, CO.	20160906	538	645	7.6	8.2	767	20.3	63	190	16000		<0.02		9.1

**Note on Ammonia:** Arkansas River Standards for Ammonia include calculations to be performed monthly. These standards are not included because calculations with the small volume of data taken for SDS would yield inaccurate standards.

**Note on Salinity:** No standards exist for Salinity along the Arkansas River.

- \* QA Notes by #:
- \*e. The value has been edited or estimated by USGS personnel.
- \*1. Bacteria rejected; Read outside allowable hold time.
- \*2. Bacteria rejected; Read outside allowable hold time.
- \*3. Hold time violation; verification requested by PMT. New maximum value for site.



## Complaint Log

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No attachment is provided because no complaints associated with construction of SDS were received during this reporting period.

# Emergency Response Log

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No attachment is provided because no emergency response incidents associated with construction of SDS occurred during this reporting period.

# Log of Work Occurring During Non-Typical Work Hours

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Work Occurring During Non-Typical Work Hours

Work Package	Day	Date	Hours Worked	Reason
JPS	Saturday	1/9/2016	7:00 a.m. - 11:00 a.m.	Maintaining Construction Schedule
JPS	Saturday	1/30/2016	7:00 a.m. - 11:00 a.m.	Maintaining Construction Schedule

# Expenditures for Wastewater System Improvements Annual Report for 2016

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# Pueblo County 1041 Permit

## Expenditures for Wastewater System Improvements

### Annual Progress Report

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January 18, 2017

Reporting for the period between January 1, 2016 and December 31, 2016

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Local Collectors Evaluation and Rehabilitation Project (LCERP).....	2
Collection System Rehabilitation and Replacement Project (R&R).....	3
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### **APPENDIX A – LCERP COMPLETION TABLE**

### **APPENDIX B – R&R COMPLETION TABLE**

## Introduction

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On March 18, 2009 the Pueblo Board of County Commissioners passed Resolution No. P&D 09-22, approving 1041 Permit No. 2008-002 with terms and conditions for construction of the Southern Delivery System water project within Pueblo County, Colorado.

1041 Permit Condition No.7 requires that Springs Utilities provide an annual report to the Pueblo County Board of Commissioners on or before January 31 of each year reporting the Wastewater System Improvement expenditures from January 1 through December 31. Condition No.7 of the permit states:

***Expenditures for Wastewater System Improvements***

*In order to continue its efforts to protect against future spills to Fountain Creek, to increase its opportunities for reuse, and to mitigate possible water quality impacts by the SDS Project to Fountain Creek, Colorado Springs Utilities shall commit to invest an additional seventy-five million dollars (\$75,000,000) in its wastewater system. Expenditures will be made as part of the wastewater collection system rehabilitation programs or wastewater reuse systems between January 1, 2010 and December 31, 2024 as required. These expenditures shall be for projects not currently required by other regulatory permits, agency enforcement or court orders, consent agreements, or governmental regulations existing as of January 30, 2010. These expenditures will include the Local Collector Evaluation and Rehabilitation Program (LCERP) for the improvement and fortification of wastewater lines which could adversely affect Fountain Creek or its tributaries. These expenditures are subject to annual appropriation by the Colorado Springs City Council. Beginning in 2010, by January 31 of each year, Colorado Springs Utilities shall provide an annual report to Pueblo County describing such expenditures for the prior year.*

The Wastewater Collection System Rehabilitation Programs are comprehensive programs that systematically inspect, evaluate, prioritize, and rehabilitate the entire Springs Utilities collection system. In 2016 the projects that met the terms of Condition No. 7 are: 1) the Local Collectors Evaluation and Rehabilitation Project (LCERP); 2) the Manhole Evaluation and Rehabilitation Project (MHERP); and 3) the Collection System Rehabilitation and Replacement Project (R&R). These projects are independent of Springs Utilities' normal operation and maintenance programs.

## Project Descriptions

### Local Collectors Evaluation and Rehabilitation Project (LCERP)

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LCERP consists of the systematic evaluation and rehabilitation of sewer collection pipes less than 10-inch in diameter.

LCERP:

- Determines the condition of all the sanitary sewer pipe segments less than 10-inches in diameter and places them by priority on a schedule to be re-inspected, rehabilitated, repaired and/or replaced.
- Reduces the risk of Sanitary Sewer Overflows (SSO's)
- Is part of the overall long-term investments to our wastewater system through the year 2025.

LCERP repaired or rehabilitated approximately 51,344 feet of less than 10-inch sewer pipe, representing approximately 87 line segments, at a cost of \$1,957,137 in 2016.



## Collection System Rehabilitation and Replacement Project (R&R)

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The Sanitary Sewer Evaluation and Rehabilitation Program (SSERP) was completed on December 31, 2012, meeting all the requirements of the CDPHE Compliance Order on Consent (COC). Closure of the COC was requested on January 29, 2013 and granted by CDPHE on March 8, 2013. The successor Collection System Replacement and Rehabilitation Program (R&R) contracts were also put into place in 2009 to continue the rehabilitation and replacement of the pipes identified and is described below. The total cost associated with SSERP since 2000 is approximately \$74.85million.

The R&R project rehabilitates or replaces large diameter (greater than 10-inch) sewer pipe that were installed after January 1, 1994.

R&R:

- Is designed to facilitate operations, increase capacity, and upgrade the system
- Focuses on the reduction of sanitary sewer overflows and stoppages
- Reduces the risk of spills and protecting the public health and environment.

R&R repaired or rehabilitated approximately 4,494 feet of greater than 10-inch sewer pipe, representing 13 line segments, at a cost of \$871,895 in 2016.

## Wastewater Reuse System

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The Wastewater Reuse System consists of several pumping stations, storage reservoirs, holding ponds, transmission mains and a tertiary treatment facility.

Wastewater Reuse Systems:

- Deliver tertiary-treated wastewater to parks, cemeteries, golf courses and commercial properties for landscape irrigation
- Deliver tertiary-treated wastewater to Drake Power Plant for evaporative cooling
- Include supplies from raw surface water, groundwater, and reclaimed water.

Only normal operation and maintenance of the reuse system was conducted in 2016.

## Summary

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During the reporting period of January 1, 2016 through December 31, 2016 costs for LCERP and System R&R totaled \$2,829,032. The total Wastewater Expenditures reported since 2010 is \$50,256,303.

## Appendix A

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2016 Local Collectors Evaluation and Rehabilitation Program Completion Table

CSU Location ID	Work Order #	DIAMETER (inches)	LENGTH (feet)	Assesment Description	Collection Basin Name	Date Complete
WW.147965	2927116	8	192	CIPP	GARDEN OF THE GODS	10/07/16
WW.158147	2927093	8	129	CIPP	GARDEN OF THE GODS	10/07/16
WW.139674	2925284	8	33	CIPP	GARDEN OF THE GODS	10/07/16
WW.139871	3087198	8	206	CIPP	LOWER SAND CREEK	10/07/16
WW.141762	2927262	8	393	CIPP	GARDEN OF THE GODS	10/06/16
WW.135378	2925523	8	226	CIPP	GARDEN OF THE GODS	10/06/16
WW.134884	3087199	8	237	CIPP	LOWER SAND CREEK	10/06/16
WW.135367	2927139	8	280	CIPP	GARDEN OF THE GODS	10/05/16
WW.151980	2927162	8	305	CIPP	GARDEN OF THE GODS	10/05/16
WW.135361	2927133	8	271	CIPP	GARDEN OF THE GODS	10/04/16
WW.135363	2927137	8	280	CIPP	GARDEN OF THE GODS	10/04/16
WW.156218	2927153	8	456	CIPP	GARDEN OF THE GODS	10/03/16
WW.157880	3087200	8	239	CIPP	LOWER SAND CREEK	10/03/16
WW.158135	2927224	8	217	CIPP	GARDEN OF THE GODS	09/30/16
WW.160156	2925292	8	244	CIPP	GARDEN OF THE GODS	09/30/16
WW.135370	2927145	8	232	CIPP	GARDEN OF THE GODS	09/30/16
WW.156216	2925289	8	269	CIPP	GARDEN OF THE GODS	09/30/16
WW.134887	3087201	8	255	CIPP	LOWER SAND CREEK	09/30/16
WW.132329	2927203	8	143	CIPP	GARDEN OF THE GODS	09/29/16
WW.135383	2925526	8	284	CIPP	GARDEN OF THE GODS	09/29/16
WW.134888	2844027	8	229	CIPP	LOWER SAND CREEK	09/29/16
WW.162182	2927252	8	51	CIPP	GARDEN OF THE GODS	09/28/16
WW.151981	2925288	8	311	CIPP	GARDEN OF THE GODS	09/28/16
WW.147961	2925294	8	225	CIPP	GARDEN OF THE GODS	09/28/16
WW.149989	2925285	8	175	CIPP	GARDEN OF THE GODS	09/28/16
WW.135097	2927226	8	174	CIPP	GARDEN OF THE GODS	09/27/16
WW.145909	2927227	8	321	CIPP	GARDEN OF THE GODS	09/27/16
WW.149980	2927234	8	339	CIPP	GARDEN OF THE GODS	09/26/16
WW.153955	2927247	8	144	CIPP	GARDEN OF THE GODS	09/26/16
WW.141764	2927265	8	276	CIPP	GARDEN OF THE GODS	09/26/16
WW.162181	2927251	8	171	CIPP	GARDEN OF THE GODS	09/23/16
WW.145913	2927256	8	162	CIPP	GARDEN OF THE GODS	09/23/16
WW.157881	3087202	8	375	CIPP	LOWER SAND CREEK	09/23/16
WW.152072	2927212	8	339	CIPP	GARDEN OF THE GODS	09/22/16
WW.155792	3087203	8	158	CIPP	LOWER SAND CREEK	09/22/16
WW.134883	3087204	8	156	CIPP	LOWER SAND CREEK	09/22/16
WW.139664	2927210	8	387	CIPP	GARDEN OF THE GODS	09/21/16
WW.134886	3087205	8	275	CIPP	LOWER SAND CREEK	09/21/16
WW.147769	3087207	8	401	CIPP	LOWER SAND CREEK	09/19/16
WW.143592	2844028	8	229	CIPP	LOWER SAND CREEK	09/16/16
WW.149755	3087208	8	146	CIPP	LOWER SAND CREEK	09/13/16
WW.139430	3087209	8	290	CIPP	LOWER SAND CREEK	09/13/16
WW.134878	3087210	8	371	CIPP	LOWER SAND CREEK	09/12/16
WW.139658	2927267	8	289	CIPP	GARDEN OF THE GODS	09/08/16
WW.156019	2927243	8	345	CIPP	GARDEN OF THE GODS	09/08/16
WW.151763	3087211	8	301	CIPP	LOWER SAND CREEK	09/08/16
WW.141497	3087217	8	128	CIPP	LOWER SAND CREEK	09/08/16
WW.164432	2925290	8	389	CIPP	GARDEN OF THE GODS	08/27/16
WW.149970	2927211	8	398	CIPP	GARDEN OF THE GODS	08/12/16
WW.145996	2927175	8	298	CIPP	GARDEN OF THE GODS	08/12/16
WW.141766	2927264	8	289	CIPP	GARDEN OF THE GODS	08/11/16
WW.149979	2927233	8	375	CIPP	GARDEN OF THE GODS	08/10/16
WW.135368	2927143	8	375	CIPP	GARDEN OF THE GODS	08/09/16
WW.137638	2927261	8	349	CIPP	GARDEN OF THE GODS	08/09/16
WW.162179	2927250	8	341	CIPP	GARDEN OF THE GODS	08/08/16
WW.149976	2927229	8	375	CIPP	GARDEN OF THE GODS	08/08/16
WW.164236	2927248	8	115	CIPP	GARDEN OF THE GODS	08/04/16
WW.153954	2927246	8	83	CIPP	GARDEN OF THE GODS	08/04/16
WW.137636	2927260	8	230	CIPP	GARDEN OF THE GODS	08/03/16
WW.156023	2927245	8	399	CIPP	GARDEN OF THE GODS	08/03/16

CSU Location ID	Work Order #	DIAMETER (inches)	LENGTH (feet)	Assesment Description	Collection Basin Name	Date Complete
WW.158138	2927236	8	399	CIPP	GARDEN OF THE GODS	08/02/16
WW.149977	2927231	8	327	CIPP	GARDEN OF THE GODS	08/02/16
WW.149840	2927213	8	206	CIPP	GARDEN OF THE GODS	08/01/16
WW.132335	2927205	8	189	CIPP	GARDEN OF THE GODS	07/28/16
WW.152495	2927179	8	189	CIPP	GARDEN OF THE GODS	07/28/16
WW.159246	3012042	8	263	CIPP	LOWER COTTONWOOD CREEK	07/28/16
WW.133575	3012067	8	86	CIPP	LOWER COTTONWOOD CREEK	07/28/16
WW.156559	2927270	8	349	CIPP	GARDEN OF THE GODS	07/27/16
WW.150478	2927268	8	260	CIPP	GARDEN OF THE GODS	07/27/16
WW.140799	3012054	8	275	CIPP	LOWER COTTONWOOD CREEK	07/27/16
WW.153095	3012008	8	298	CIPP	LOWER COTTONWOOD CREEK	07/27/16
WW.146436	2927207	8	299	CIPP	GARDEN OF THE GODS	07/26/16
WW.156558	2927197	8	223	CIPP	GARDEN OF THE GODS	07/26/16
WW.149082	3011921	8	188	CIPP	LOWER COTTONWOOD CREEK	07/26/16
WW.145995	2927206	8	326	CIPP	GARDEN OF THE GODS	07/25/16
WW.151852	2927184	8	327	CIPP	GARDEN OF THE GODS	07/25/16
WW.145038	3012049	8	266	CIPP	LOWER COTTONWOOD CREEK	07/25/16
WW.144837	2922994	8	114	CIPP	UPPER SAND CREEK	07/22/16
WW.136553	2922991	8	303	CIPP	UPPER SAND CREEK	07/22/16
WW.143823	2927259	8	200	CIPP	GARDEN OF THE GODS	07/22/16
WW.151978	3087212	8	327	CIPP	GARDEN OF THE GODS	07/22/16
WW.163316	3012012	8	287	CIPP	LOWER COTTONWOOD CREEK	07/22/16
WW.142906	3012052	8	264	CIPP	LOWER COTTONWOOD CREEK	07/22/16
WW.138779	3012051	8	303	CIPP	LOWER COTTONWOOD CREEK	07/20/16
WW.157199	3102044	8	350	CIPP	LOWER COTTONWOOD CREEK	07/19/16
WW.157201	3012046	8	124	CIPP	LOWER COTTONWOOD CREEK	07/18/16
WW.159257	2920834	8	299	CIPP	LOWER COTTONWOOD CREEK	07/15/16
WW.157213	2920836	8	288	CIPP	LOWER COTTONWOOD CREEK	07/15/16
WW.132334	2927204	8	131	CIPP	GARDEN OF THE GODS	07/14/16
WW.142279	2927209	8	439	CIPP	GARDEN OF THE GODS	07/14/16
WW.149076	3011919	8	363	CIPP	LOWER COTTONWOOD CREEK	07/14/16
WW.158637	2927189	8	274	CIPP	GARDEN OF THE GODS	07/13/16
WW.162686	2927201	8	306	CIPP	GARDEN OF THE GODS	07/13/16
WW.145053	2920822	8	407	CIPP	LOWER COTTONWOOD CREEK	07/12/16
WW.160673	2927202	8	400	CIPP	GARDEN OF THE GODS	07/12/16
WW.152493	2927178	8	179	CIPP	GARDEN OF THE GODS	07/12/16
WW.138603	2922992	8	149	CIPP	UPPER SAND CREEK	06/29/16
WW.148885	2922993	8	301	CIPP	UPPER SAND CREEK	06/29/16
WW.136477	2922979	8	297	CIPP	UPPER SAND CREEK	06/28/16
WW.147960	2927257	8	179	CIPP	GARDEN OF THE GODS	06/28/16
WW.152065	2920841	8	330	CIPP	LOWER COTTONWOOD CREEK	06/27/16
WW.144793	2922987	8	358	CIPP	UPPER SAND CREEK	06/27/16
WW.148876	2922997	8	288	CIPP	UPPER SAND CREEK	06/24/16
WW.163098	2922990	8	157	CIPP	UPPER SAND CREEK	06/24/16
WW.139643	2918317	8	402	CIPP	GARDEN OF THE GODS	06/23/16
WW.145902	2927323	8	176	CIPP	GARDEN OF THE GODS	06/21/16
WW.135350	2927320	8	188	CIPP	GARDEN OF THE GODS	06/21/16
WW.163557	1826522	6	33	CIPP	SOUTH TEJON	06/20/16
WW.150070	2927319	8	500	CIPP	GARDEN OF THE GODS	06/17/16
WW.164102	2927120	8	121	CIPP	GARDEN OF THE GODS	06/16/16
WW.141610	2927122	8	163	CIPP	GARDEN OF THE GODS	06/15/16
WW.155889	2927118	8	112	CIPP	GARDEN OF THE GODS	06/15/16
WW.153706	2140796	8	28	CIPP	SHOOKS RUN	06/10/16
WW.158346	2925525	8	533	CIPP	GARDEN OF THE GODS	06/09/16
WW.137746	2922809	8	333	CIPP	MESA VALLEY	06/07/16
WW.144359	2922811	8	156	CIPP	MESA VALLEY	06/07/16
WW.152516	2922810	8	91	CIPP	MESA VALLEY	06/07/16
WW.160150	2918299	8	300	CIPP	GARDEN OF THE GODS	06/06/16
WW.147946	2927348	8	249	CIPP	GARDEN OF THE GODS	06/02/16
WW.160352	2927124	8	270	CIPP	GARDEN OF THE GODS	06/02/16

CSU Location ID	Work Order #	DIAMETER (inches)	LENGTH (feet)	Assesment Description	Collection Basin Name	Date Complete
WW.160138	2927273	8	400	CIPP	GARDEN OF THE GODS	06/01/16
WW.162172	2927281	8	382	CIPP	GARDEN OF THE GODS	06/01/16
WW.135359	2927340	8	303	CIPP	GARDEN OF THE GODS	05/31/16
WW.139651	2927339	8	187	CIPP	GARDEN OF THE GODS	05/31/16
WW.157762	3087218	8	500	CIPP	DOWNTOWN	05/26/16
WW.139885	2927344	8	102	CIPP	GARDEN OF THE GODS	05/25/16
WW.145906	2927350	8	103	CIPP	GARDEN OF THE GODS	05/25/16
WW.154162	2927349	8	296	CIPP	GARDEN OF THE GODS	05/25/16
WW.160145	2927346	8	222	CIPP	GARDEN OF THE GODS	05/24/16
WW.135759	2927343	8	343	CIPP	GARDEN OF THE GODS	05/24/16
WW.149961	2927310	8	400	CIPP	GARDEN OF THE GODS	05/23/16
WW.135351	2927316	8	155	CIPP	GARDEN OF THE GODS	05/23/16
WW.137623	3087216	8	318	CIPP	GARDEN OF THE GODS	05/20/16
WW.137624	2927284	8	372	CIPP	GARDEN OF THE GODS	05/19/16
WW.149962	2927277	8	365	CIPP	GARDEN OF THE GODS	05/19/16
WW.135354	3087213	8	247	CIPP	GARDEN OF THE GODS	05/18/16
WW.135346	2927332	8	264	CIPP	GARDEN OF THE GODS	05/18/16
WW.153949	2927313	8	412	CIPP	GARDEN OF THE GODS	05/17/16
WW.139653	2927317	8	239	CIPP	GARDEN OF THE GODS	05/17/16
WW.162173	2927314	8	377	CIPP	GARDEN OF THE GODS	05/16/16
WW.151967	2927312	8	187	CIPP	GARDEN OF THE GODS	05/16/16
WW.139654	2927318	8	305	CIPP	GARDEN OF THE GODS	05/16/16
WW.153951	2927341	8	472	CIPP	GARDEN OF THE GODS	05/13/16
WW.135358	2927336	8	384	CIPP	GARDEN OF THE GODS	05/12/16
WW.147955	2927338	8	189	CIPP	GARDEN OF THE GODS	05/12/16
WW.158127	2927334	8	178	CIPP	GARDEN OF THE GODS	05/12/16
WW.135344	2927282	8	42	CIPP	GARDEN OF THE GODS	05/11/16
WW.139650	2927308	8	407	CIPP	GARDEN OF THE GODS	05/11/16
WW.162167	2927279	8	242	CIPP	GARDEN OF THE GODS	05/10/16
WW.145898	2927347	8	200	CIPP	GARDEN OF THE GODS	05/10/16
WW.151960	2927345	8	405	CIPP	GARDEN OF THE GODS	05/10/16
WW.145894	2927276	8	100	CIPP	GARDEN OF THE GODS	05/09/16
WW.137847	2927303	8	278	CIPP	GARDEN OF THE GODS	05/09/16
WW.161059	2922948	8	134	CIPP	UPPER SAND CREEK	05/08/16
WW.150105	2923000	8	391	CIPP	UPPER SAND CREEK	05/06/16
WW.144791	2922999	8	70	CIPP	UPPER SAND CREEK	05/06/16
WW.148811	2922978	8	379	CIPP	UPPER SAND CREEK	05/05/16
WW.164309	2922995	8	305	CIPP	UPPER SAND CREEK	05/05/16
WW.158988	2922946	8	233	CIPP	UPPER SAND CREEK	05/04/16
WW.135626	2922996	8	245	CIPP	UPPER SAND CREEK	05/04/16
WW.137773	2922981	8	396	CIPP	UPPER SAND CREEK	05/03/16
WW.148819	2922980	8	355	CIPP	UPPER SAND CREEK	05/03/16
WW.141760	2140807	8	200	CIPP	GARDEN OF THE GODS	05/02/16
WW.162175	2918314	8	432	CIPP	GARDEN OF THE GODS	04/28/16
WW.143815	2918318	8	403	CIPP	GARDEN OF THE GODS	04/26/16
WW.143804	2918303	8	347	CIPP	GARDEN OF THE GODS	04/19/16
WW.150848	3087215	8	258	CIPP	UPPER SAND CREEK	04/06/16
WW.151970	2918319	8	438	CIPP	GARDEN OF THE GODS	04/05/16
WW.156943	2922962	8	201	CIPP	UPPER SAND CREEK	04/04/16
WW.142713	2922956	8	284	CIPP	UPPER SAND CREEK	04/04/16
WW.145914	2927123	8	305	CIPP	GARDEN OF THE GODS	03/29/16
WW.149984	2925286	8	162	CIPP	GARDEN OF THE GODS	03/29/16
WW.150942	2162514	8	341	CIPP	UPPER SAND CREEK	03/22/16
WW.163051	2922982	8	230	CIPP	UPPER SAND CREEK	03/22/16
WW.176670	3087214	8	130	CIPP	PATTY JEWETT	03/21/16
WW.162165	2918313	8	23	CIPP	GARDEN OF THE GODS	03/21/16
WW.139712	2962845	8	308	CIPP	WEST SIDE	03/11/16
WW.145051	2920769	8	131	CIPP	LOWER COTTONWOOD CREEK	01/27/16
WW.149096	2919438	8	172	CIPP	LOWER COTTONWOOD CREEK	01/26/16
WW.142918	2920781	8	168	CIPP	LOWER COTTONWOOD CREEK	01/26/16

2016 Local Collectors Evaluation and Rehabilitation Program Completion Table

CSU Location ID	Work Order #	DIAMETER (inches)	LENGTH (feet)	Assesment Description	Collection Basin Name	Date Complete
WW.133586	2920838	8	295	CIPP	LOWER COTTONWOOD CREEK	01/25/16
WW.133602	2919423	8	206	CIPP	LOWER COTTONWOOD CREEK	01/22/16
WW.149095	2920824	8	96	CIPP	LOWER COTTONWOOD CREEK	01/21/16
WW.146988	2920825	8	251	CIPP	LOWER COTTONWOOD CREEK	01/21/16
WW.151091	2920774	8	296	CIPP	LOWER COTTONWOOD CREEK	01/20/16
WW.159258	2920776	8	355	CIPP	LOWER COTTONWOOD CREEK	01/18/16
WW.140806	2920761	8	72	CIPP	LOWER COTTONWOOD CREEK	01/11/16
WW.163327	2920782	8	296	CIPP	LOWER COTTONWOOD CREEK	01/07/16
WW.159259	2920783	8	370	CIPP	LOWER COTTONWOOD CREEK	01/07/16
WW.133598	2919425	8	226	CIPP	LOWER COTTONWOOD CREEK	01/06/16
WW.133595	2919436	8	237	CIPP	LOWER COTTONWOOD CREEK	01/06/16
WW.144924	2920771	8	337	CIPP	LOWER COTTONWOOD CREEK	01/05/16
WW.196952	2926633	8	166	Replacement	GARDEN OF THE GODS	01/15/16
WW.191726	2926686	8	40	Replacement	GARDEN OF THE GODS	04/28/16
WW.169390	2933808	8	186	Replacement	LOWER COTTONWOOD CREEK	02/09/16
WW.117339	2933871	8	261	Replacement	PATTY JEWETT	04/12/16
WW.168694	3044973	8	20	Replacement	LOWER SAND CREEK	12/22/16
<b>Totals</b>	<b>87</b>		<b>51,344</b>			

## Appendix B

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**2015 - Collection System Rehabilitation and Replacement Project**

<b>Collection System Rehabilitation and Replacement</b>							
<b>PIPE LID</b>	<b>Task Order #</b>	<b>Work Order #</b>	<b>Existing Size</b>	<b>PIPE COND.</b>	<b>LENGTH</b>	<b>NEW PIPE SIZE</b>	<b>Completion Date</b>
WW.140211	72	2934527	<b>24</b>	Protuding Tap	149	NA	7/19/16
WW.137140	72	2934535	10	Sags	140	NA	7/20/16
WW.145418	72	2934541	10	Sags	193	NA	7/20/16
WW.133620	72	2934543	10	Lining Delamination	388	NA	7/21/16
WW.139536	72	2934545	10	Sags, Infiltration	138	NA	8/1/16
WW.141679	72	2934546	12	Infiltration	397	NA	7/15/16
WW.164319	72	2934561	42	Tar Lining Degradation	479	NA	1/5/16
WW.143518	72	2934562	42	Tar Lining Degradation	496	NA	1/5/16
WW.151681	72	2934563	42	Tar Lining Degradation	436	NA	1/8/16
WW.137336	72	2934565	42	Tar Lining Degradation	437	NA	1/8/16
WW.157808	72	2934567	42	Tar Lining Degradation	539	NA	1/16/16
WW.151684	72	2934568	42	Tar Lining Degradation	233	NA	1/16/16
WW.149686	72	2934569	42	Tar Lining Degradation	469	NA	1/20/16
<b>Subtotal</b>	13				4,494		



# Summary of Storage, Diversion, Delivery of Water in Pueblo County

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Data will be reported in 12-month increments, from November of the previous year to October of the current year. For the initial report, Colorado Springs is reporting 13 months of data as water for testing was conveyed through the pipeline beginning in October 2015.

## Colorado Springs Utilities

	Pueblo Reservoir EOM Storage (acre-feet)		Total Diversion	Total Delivery <sup>1</sup>
	<i>Long Term Excess Capacity Acct</i>	<i>Fry-Ark Carry Over Account</i>	acre-feet	acre-feet
Oct 2015	16,366.30	53,095.34	<i>no Pueblo County diversions</i>	39.70
Nov	16,358.99	52,951.36		214.65
Dec	16,965.54	52,864.84		372.41
Jan 2016	15,951.98	52,794.38		1,130.56
Feb	16,494.61	52,681.56		58.92
Mar	14,440.51	52,478.46		117.27
Apr	10,495.48	52,211.92		154.94
May	10,477.71	54,084.29		408.30
Jun	7,266.82	53,470.77		194.92
Jul	6,137.26	52,896.37		222.61
Aug	10,900.02	52,469.71		305.90
Sep	11,726.25	52,019.45		299.88
Oct	14,031.01	51,514.56		363.68
Annual Total:				3883.73

Notes:

<sup>1</sup> October - March totals were pipe fill/testing only. In April 40.06 AF was delivered to the system; the remainder was pipe fill/testing.

## City of Fountain

	Pueblo EOM Storage (acre-feet)		Total Diversion	Total Delivery
	<i>Fry-Ark Carryover Account</i>	<i>SDS Long-Term Excess Capacity Account</i>	acre-feet	acre-feet
Nov 2015				
Dec				
Jan 2016				
Feb				
Mar				
Apr	7149.74	883.42	0.00	4.03
May	7629.29	884.55	0.00	116.78
Jun	7538.90	680.65	0.00	173.44
Jul	7454.25	838.92	0.00	180.56
Aug	7321.98	634.25	0.00	121.71
Sep	7256.25	770.89	0.00	127.99
Oct	7115.40	837.68	0.00	87.36

Annual Total: 0.00 811.87  
Monthly Summary

### Pueblo West Metropolitan District

	Pueblo Reservoir EOM Storage (acre-feet)		Total Diversion	Total Delivery
	<i>Pueblo West</i>		acre-feet	acre-feet
Nov 2015				
Dec				
Jan 2016				
Feb	5099.88		95.11	95.11
Mar	4867.88		294.46	294.46
Apr	4467.90		418.31	418.31
May	4141.64		551.95	551.95
Jun	4090.47		737.05	737.05
Jul	4463.01		734.67	734.67
Aug	6781.36		671.23	671.23
Sep	6056.36		666.79	666.79
Oct	5450.51		566.67	566.67

Annual Total: 4736.24 4736.24

### Security Water District

	Pueblo EOM Storage (acre-feet)		Total Diversion	Total Delivery
	<i>Fry-Ark Carryover Account</i>	<i>SDS Long-Term Excess Capacity Account</i>	acre-feet	acre-feet
Nov 2015				
Dec				
Jan 2016				
Feb				
Mar				
Apr	5763.87	664.04	0.00	0.63
May	6064.00	614.27	0.00	74.54
Jun	5894.85	353.18	0.00	256.73
Jul	5740.42	163.85	0.00	197.20
Aug	5692.04	162.37	0.00	149.57
Sep	5581.94	116.44	0.00	148.97
Oct	5439.53	164.42	0.00	98.47

Annual Total: 0.00 926.11

# Summary of Participants' Return Flows to Fountain Creek Including Storage and Releases of Such Return Flows

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Data will be reported in 12-month increments, from November of the previous year to October of the current year. For the initial report, Colorado Springs is reporting 13 months of data as water for testing was conveyed through the pipeline beginning in October 2015.

## Return Flow Summary

### Colorado Springs Utilities

#### SDS Return Flow Summary

	Total RFs to Fountain Creek <sup>2</sup>	Avg Flow <sup>2</sup>	Max Daily Flow <sup>2</sup>	RFs to Fountain Creek Storage	RFs released from Ftn Ck Storage
	acre-feet	cfs	cfs	acre-feet	acre-feet
Oct 2015	112.82	1.90	9.42	none in 2016	none in 2016
Nov	245.46	4.13	24.10		
Dec	265.43	4.46	17.06		
Jan 2016	940.73	15.81	71.39		
Feb	72.81	1.22	7.52		
Mar	82.30	1.38	9.14		
Apr	87.74	1.47	7.92		
May	186.91	3.04	8.39		
Jun	49.95	0.84	1.66		
Jul	63.10	1.03	2.77		
Aug	103.65	1.69	2.67		
Sep	104.34	1.75	3.26		
Oct	156.52	2.55	3.92		
	2315.24			0.00	0.00

Notes:

<sup>2</sup> October - March flows were released to Sand Creek after testing only. In April, 5.44 af was actual return flows; the remainder was released after testing.  
No calculations of irrigation return flows, only direct or indirect through pipes.

### City of Fountain

	Total RFs to Ftn Ck	Avg Flow	Max Daily Flow	RFs to Ftn Ck Storage	RFs released from Ftn Ck Storage
	acre-feet	cfs	cfs	acre-feet	acre-feet
Nov 2015					
Dec					
Jan 2016					
Feb					
Mar					
Apr	3.38	0.85	0.85	0.00	0.00
May	87.85	1.43	2.03	0.00	0.00
Jun	123.45	2.07	2.68	0.00	0.00
Jul	104.89	1.71	2.21	0.00	0.00
Aug	68.71	1.12	1.82	0.00	0.00
Sep	63.53	1.07	1.56	0.00	0.00
Oct	49.49	0.80	1.35	0.00	0.00
	501.30			0.00	0.00

## **Pueblo West Metropolitan District**

### **Return Flow Summary**

*Pueblo West does not exchange flows from Fountain Creek.*

	Total RFs to Ftn Ck	Avg Flow	Max Daily Flow	RFs to Ftn Ck Storage	RFs released from Ftn Ck Storage
	acre-feet	cfs	cfs	acre-feet	acre-feet
Nov 2015		0.00			
Dec		0.00			
Jan 2016		0.00			
Feb		0.00			
Mar		0.00			
Apr		0.00			
May		0.00			
Jun		0.00			
Jul		0.00			
Aug		0.00			
Sep		0.00			
Oct		0.00			
	0.00			0.00	0.00

## **Security Water District**

	Total RFs to Ftn Ck	Avg Flow	Max Daily Flow	RFs to Ftn Ck Storage	RFs released from Ftn Ck Storage
	acre-feet	cfs	cfs	acre-feet	acre-feet
Nov 2015					
Dec					
Jan 2016					
Feb					
Mar					
Apr	0.46	0.12	0.21	0.00	0.00
May	37.88	0.62	1.54	0.00	0.00
Jun	92.83	1.56	1.77	0.00	0.00
Jul	76.70	1.25	1.82	0.00	0.00
Aug	68.02	1.11	1.51	0.00	0.00
Sep	71.80	1.21	1.70	0.00	0.00
Oct	53.75	0.87	1.66	0.00	0.00
	401.44			0.00	0.00

# Summaries of Exchanges by Participants between Pueblo Reservoir and the Fountain Creek Confluence

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Data will be reported in 12-month increments, from November of the previous year to October of the current year. For the initial report, Colorado Springs is reporting 13 months of data as water for testing was conveyed through the pipeline beginning in October 2015.

## Exchange Summary

### Colorado Springs Utilities

#### SDS Exchange Summary

	Total Exchange <sup>3</sup>	Avg Flow
	acre-feet	cfs
Oct 2015	80.89	1.36
Nov	194.97	3.28
Dec	245.49	4.13
Jan 2016	8.42	0.14
Feb	31.75	0.53
Mar	94.81	1.59
Apr	75.72	1.27
May	148.58	2.42
Jun	41.91	0.70
Jul	51.55	0.84
Aug	90.47	1.47
Sep	87.71	1.47
Oct	112.15	1.82
	1264.42	

Notes:

<sup>3</sup> October - March flows were exchanges of testing releases only. Most return flows in Jan/Feb were run to Colorado Canal rather than exchanged.

### City of Fountain

#### Exchange Summary

	Total Exchange	Avg Flow
	acre-feet	cfs
Nov 2015		
Dec		
Jan 2016		
Feb		
Mar		
Apr	0.00	0.00
May	0.00	0.00
Jun	0.00	0.00
Jul	0.00	0.00
Aug	0.00	0.00
Sep	0.00	0.00
Oct	0.00	0.00

0.00



**Pueblo West Metropolitan District**

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## Exchange Summary

	Total Exchange	Avg Flow
	acre-feet	cfs
Nov 2015		0.00
Dec		0.00
Jan 2016		0.00
Feb		0.00
Mar		0.00
Apr		0.00
May		0.00
Jun		0.00
Jul		0.00
Aug		0.00
Sep		0.00
Oct		0.00

0.00

**Security Water District**

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## Exchange Summary

	Total Exchange	Avg Flow
	acre-feet	cfs
Nov 2015		
Dec		
Jan 2016		
Feb		
Mar		
Apr	0.00	0.00
May	0.00	0.00
Jun	0.00	0.00
Jul	0.00	0.00
Aug	0.00	0.00
Sep	0.00	0.00
Oct	0.00	0.00

0.00

# Geomorphology Monitoring

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Data is not yet available for post-construction reporting period. USGS will provide data once quality assurance review is complete. Data will provided in the next Annual Report.