1041 2008-002

SDS
Water for generations

January 31, 2022

Brent Esplin, Regional Director
Missouri Basin and Arkansas-Rio Grande-Texas Gulf Regions
Bureau of Reclamation
P.O. Box 36900
Billings, MT 59107-6900

Subject: Southern Delivery System Permit Compliance Annual Report (Calendar Year 2021)

Mr. Esplin:

Colorado Springs Utilities, the Southern Delivery System (SDS) Project Manager, hereby submits the attached Permit Compliance Annual Report (PCAR) for Calendar Year 2021. 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 719-668-3581, with any questions regarding the attached report.

Sincerely,

Earl Wilkinson III
Chief Water Compliance and Innovation Officer

Enclosure

cc: City of Fountain, Dan Blankenship, Director of Utilities
Colorado Department of Public Health and Environment, Jill Hunsaker Ryan, Director, Water Quality Control Division
Colorado Parks and Wildlife, Brett Ackerman, Regional Manager, Southeast Region
Fountain Creek Watershed Flood Control and Greenway District, Bill Banks, Executive Director
Pueblo County Planning & Development, Carmen Howard, Director
Pueblo West Metropolitan District, Jim Blasing, Director of Utilities
Security Water and Sanitation District, Roy Heald, District Manager
U.S. Army Corps of Engineers, Patrick Stevens, Lieutenant Colonel, U.S. Army, District Commander
Bureau of Reclamation, Terry Stroh, Environmental Specialist
El Paso County, Craig Dossey, Executive Director, Planning and Community Development Department

Southern Delivery System Permit Compliance Annual Report

Calendar Year 2021

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 2022

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Acronyms and Abbreviations

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
mgd	million gallons per day
NEPA	National Environmental Policy Act
PCAR	Permit Compliance Annual Report
PDC	Pueblo Dam Connection
Reclamation	Bureau of Reclamation
ROD	Record of Decision
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
WRRF	water resource recovery facility
WTP	water treatment plant

Executive Summary

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 as 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, May 20, 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. This 2021 report focuses on commitments associated with project operations and mitigation project progress.

Summary of SDS Activities During this Reporting Period

Vegetation restoration efforts continued on the Phase I work packages. Cultural Resource mitigation was completed at the Bostrom Reservoir site.

Compliance with programmatic permit/approval commitments and construction permit requirements continued to be tracked in 2021 through an Environmental Management System (EMS).

Future SDS Activities

Compliance monitoring will continue for ongoing operational activities. Structure demolition on acquired properties associated with the Bostrom Reservoir are expected to be completed in 2022. Phase II construction activities have not been scheduled. There have been no material changes to the project as described in the 2009 EIS.

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 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:

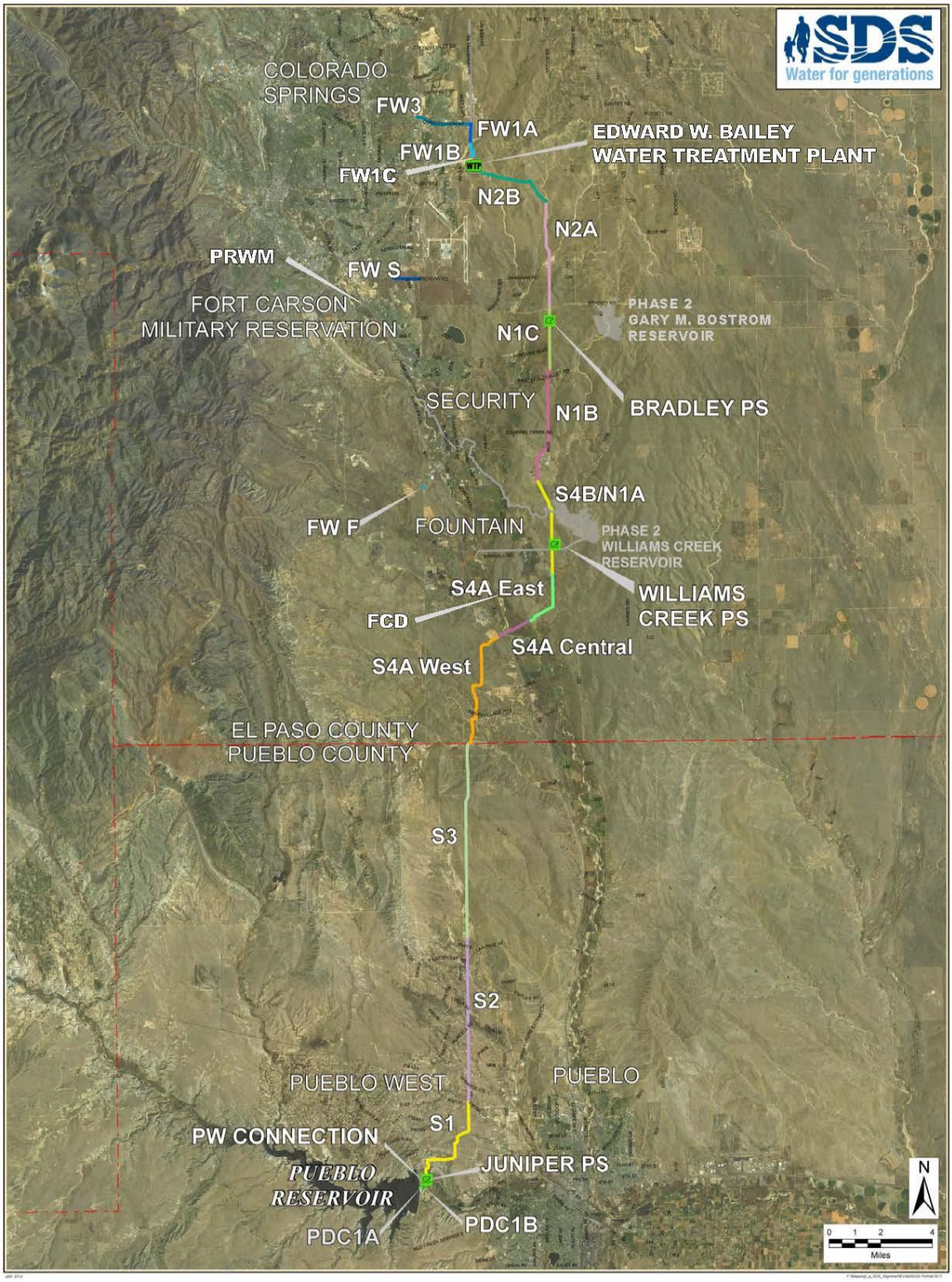
- 50 miles of raw water pipeline (66- and 72-inch diameter)
- Two 78-million-gallon-per-day (mgd) raw water pump stations and one 50-mgd raw water pump station (expandable in Phase 2)
- A water treatment plant, the Edward W. Bailey Water Treatment Plant (Bailey WTP) with a capacity of 50 mgd (expandable 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, Gary M. Bostrom Reservoir
- Expansion of the 50-mgd raw water pump stations and Bailey 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, Project Supervisor
Leon Young Service Center
1521 South Hancock Expressway
P.O. Box 1103, MC 1821
Colorado Springs, CO 80947-1821
Phone: (719) 668-4173; Fax: (719) 668-5651
E-mail: jrasmussen@csu.org

Kevin Binkley, Programs Supervisor
Leon Young Service Center
1521 South Hancock Expressway
P.O. Box 1103, MC 1821
Colorado Springs, CO 80947-1821
Phone: (719) 668-3748
E-mail: kbinkley@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: Dan Blankenship, Director of Utilities
116 S. Main St.
Fountain, CO 80817
Phone: (719) 322-2040; Fax: (719) 322-2011
E-mail: dblankenship@fountaincolorado.org

Pueblo West Metropolitan District (Participant)

Contact: Jim Blasing, Director of Utilities
20 West Palmer Lake Drive
Pueblo West, CO 81007
Phone: (719) 547-5047; Fax: (719) 547-0719
E-mail: jblasing@pwmd-co.us

Jeffrey DeHerrera, Deputy Director
E-mail: jdeherrera@pwmd-co.us

Bobby Banham, Operations Manager
E-mail: bbanham@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

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).
- 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
- 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 – Pueblo Flow Management Program
- Attachment 12 – Geomorphology Monitoring

3.0 Summary of SDS Activities Undertaken During the Reporting Period

SDS Work Package Activities

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:

Gary M. Bostrom Reservoir

30% design for the Gary M. Bostrom Reservoir was completed in 2016. Land acquisition and cultural resource mitigation activities occurred and were completed in 2021. The location of the Gary M. Bostrom Reservoir is shown on Figure 1.

Pinello Ranch Wetland Mitigation (PRWM) Project

Construction of the PRWM project commenced in November 2016, while construction and planting activities were completed in 2017. Activities in 2021 at the PRWM site included vegetation maintenance and noxious weed mitigation. The PRWM project will be used to mitigate a portion of the 12.0 acres of non-jurisdictional wetlands that will be permanently impacted as a result of SDS current and future activities. The location of PRWM is shown on Figure 1.

Additional SDS Activities

In addition to the milestones listed above, Colorado Springs Utilities engaged in the following initiatives of note during the reporting period:

- Pueblo County SDS 1041 Permit Condition 6 (Monetary Mitigation for Fountain Creek Impacts) – In accordance with Condition 6 of the SDS 1041 Permit and Pueblo County Resolution No. P&D 14-15 (confirming the commencement date for the annual indexing and approving the annual indexing methodology for purposes of calculating monetary mitigation), the final payment was dated January 14, 2020 in the amount of $10,706,513.00 payable to the Fountain Creek Watershed Water Activity Enterprise and was delivered by Colorado Springs Utilities to the Fountain Creek Watershed Flood Control and Greenway District Executive Director on January 15, 2020. Additional details are included in Attachment 1.

  As outlined in Resolution No. P&D 14-15 and the associated attachment, "*On or before March 31 of each year, CSU staff shall meet with Pueblo County Staff for purposes of confirming the PPIs for each of the November to November twelve month periods used in the calculation and reaching agreement upon the index-based amount to be paid by CSU utilizing the calculation methodology (described)….*" This meeting was postponed until April 2019 when the originally reported "Preliminary" November 2018 Producer Price Index (PPI) for

Finished Goods (WPUFD49207) value of 203.7 was updated to a "Finalized" published value of 204.4 (0.7 points greater than the original published "Preliminary" value).

Based on the increase in the index value, it was calculated that the Total Annual Payment Amount with Indexing for the 2020 payment to the FCWFCGD should have been $10,696,183, which resulted in an overpayment and credit of $10,330 to Colorado Springs Utilities. On April 29, 2020, the SDS Partners (Colorado Springs Utilities, City of Fountain, Security Water District, and Pueblo West Metropolitan District) unanimously agreed as part of the SDS Operating Committee's quarterly meeting to allow the FCWFCGD's Watershed Water Activity Enterprise to retain the $10,330 overpayment in 2020 as an additional contribution to the District for use on a future project, program, or study within the Fountain Creek watershed as approved by Utilities on behalf of the SDS Partners. This overpayment amount was in addition to the $51,991,826 paid with interest between 2009 and 2020 (including $600,000 paid between 2009 and 2011 and $51,391,826 paid between 2016 and 2020) in full satisfaction of Condition No. 6 of the SDS 1041 Permit closing out each of the obligations under that provision of the Permit and totaling $52,002,156 in payments to the FCWFCGD.

SDS entities complied with the terms of the Pueblo Flow Management Program. Colorado Springs Utilities exchanges were curtailed to meet the recreational flow targets during the months of October, November and December 2020 and March, April, May, August, and September 2021. No other SDS entities were exchanging during this period. While exchanges were curtailed the flow in the Arkansas River below Pueblo Dam did not drop below 50 cfs and no releases were made by Colorado Springs Utilities or Board of Water Works Pueblo per the Low Flow Agreement.

Other Activities

- 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 annual report of final expenditures for the 2020 calendar year was submitted on June 29, 2021. This report is submitted to Pueblo County separately and is not submitted as part of this annual report.

4.0 Future SDS Activities

Anticipated activities for 2022 include:

- Structure demolition on acquired properties associated with the Bostrom Reservoir.
- Compliance monitoring for operational activities.
- Planning activities associated with a future system outage to allow for inspection of the entire pipeline.

5.0 References

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. Amended by Resolution U-12-001, October 18, 2012

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. Amended by Resolution U-12-003, October 18, 2012.

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. Amended by Resolution U-12-002, October 18, 2012.

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. Amended by Resolution U-12-004, October 18, 2012.

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 3. 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.

ATTACHMENT 1

Implementation Progress Matrix

ATTACHMENT 1

Annual Implementation Progress Matrix

Reporting Requirements		CY2021 Annual Report Information	
Reference	**Permit or Approval Document Requirement**	**Implementation Progress**	**Attachment Provided**
Bureau of Reclamation - Record of Decision			
Environmental Commitments			
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
Participants' Commitments: General Commitments			
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
Participants' Commitments: Surface Water			
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 8-11.	Attachments 8 through 11.

ATTACHMENT 1

Annual Implementation Progress Matrix

Reporting Requirements		CY2021 Annual Report Information	
Reference	**Permit or Approval Document Requirement**	**Implementation Progress**	**Attachment Provided**
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 124 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. 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.	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
Participants' Commitments: Water Quality			
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 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 IAMP submitted to Reclamation 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, *E. coli*, 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

ATTACHMENT 1

Annual Implementation Progress Matrix

Reporting Requirements		CY2021 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.	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
Participants' Commitments: Geomorphology			
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.	An energy dissipation structure at the pipe outlet will be incorporated in the final design of the Williams Creek Reservoir project.	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 above listed bullets of this section. A Geomorphic Mitigation Plan has been completed and will be implemented during the construction and operation of SDS in accordance with this commitment.	No
Participants' Commitments: Aquatic Life			
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 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.	Aquatic sampling was performed per the Wildlife Mitigation Plan. There is no indication of adverse impacts to date as a consequence of the limited project operation.	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.	The SDS Participants have 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
Participants' Commitments: Wetlands, Waters, and Riparian Vegetation			
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
Participants' Commitments: Vegetation			

ATTACHMENT 1
Annual Implementation Progress Matrix

Reporting Requirements		CY2021 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 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 2021, applicable 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 responses of this section, numerous measures were implemented to minimize potential impacts to plant species and communities of concern and other sensitive vegetation areas. No concerns have been identified to date for this item or the previous items of this section.	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 final design of the Gary M. Bostrom Reservoir and Williams Creek Reservoir did not begin during this reporting period.	No
El Paso County - Location Approvals			
El Paso County - Location Approvals did not contain operational requirements.			
El Paso County - 1041 Permits			
El Paso County - 1041 Permits did not contain operational requirements.			
Pueblo County - 1041 permit			

ATTACHMENT 1

Annual Implementation Progress Matrix

Reporting Requirements		CY2021 Annual Report Information	
Reference	**Permit or Approval Document Requirement**	**Implementation Progress**	**Attachment Provided**
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. The report for 2010 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 was submitted to Pueblo County on January 31, 2017. The report for 2017 was submitted to Pueblo County on January 29, 2018. The report for 2018 was submitted to Pueblo County on January 31, 2019. The report for 2019 was submitted to Pueblo County on January 30, 2020. The report for 2020 was submitted to Pueblo County on January 30, 2021. The report for 2021 is being prepared and will be submitted to Pueblo County with this Annual Report on or before January 31, 2022.	Attachment 7 - Expenditures for Wastewater System Improvements Annual Report
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 related to the SDS Project is located in Attachment 8.	Attachment 8 - Summary of Storage, Diversion, Delivery of Water in Pueblo County related to the SDS Project
	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' SDS Return Flows to Fountain Creek Including Storage and Releases of Such Return Flows

ATTACHMENT 1
Annual Implementation Progress Matrix

Reporting Requirements		CY2021 Annual Report Information	
Reference	**Permit or Approval Document Requirement**	**Implementation Progress**	**Attachment Provided**
	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. Colorado Springs Utilities continues to use effluent monitoring data from its Water Resource Recovery Facilities (WRRFs) to demonstrate the plants are operating in accordance with the specifications and standards associated with permits for its WRRFs. The only permit limit exceedances for the reporting period were at the JD Phillips Water Resource Recovery Facility (JDPWRRF) for the 95th percentile and Running Annual Median of Total Phosphorus (TP). See Attachment 3 for further details. As of August 2021, the JD Phillips Water Resource Recovery Facility was in and continues to be in full compliance with all of its effluent limits for permit # CO0046850.	Attachment 3 - Water Quality Monitoring Data

ATTACHMENT 1
Annual Implementation Progress Matrix

Reporting Requirements		CY2021 Annual Report Information	
Reference	**Permit or Approval Document Requirement**	**Implementation Progress**	**Attachment Provided**
	f. Geomorphology monitoring.	Geomorphic monitoring data has been collected under an existing program led by the USGS in partnership with Colorado Springs Utilities and the City of Colorado Springs Engineering Department. Ten cross sections established at designated points along Fountain Creek are monitored for degradation, aggradation, and other changes to the geomorphic surface. Each cross section is surveyed once per year during low stream flow; preferably in the winter when leaves and other organic material on the ground is at a minimum. Survey data from 2015 has been provided as pre-SDS operations baseline conditions along with survey data from the reporting period (2021) for comparative purposes. These data present topographic survey data, Light Detection and Ranging (LiDAR) survey data, and elevation rasters, collected or generated during 2021 as part of that monitoring effort. Topographic survey points were collected using real-time kinematic Global Navigation Satellite Systems (RTK-GNSS). These point data, along with LiDAR point clouds, were used to generate digital elevation maps (2021). These survey data and maps provide an annual assessment of the geomorphic changes at each study area.	Attachment 12 - Geomorphology Monitoring
	g. Status of adaptive management plans on Fountain Creek.	The Monitoring Plan and Integrated Adaptive Management Plan were submitted to the Bureau of Reclamation on March 18, 2011 and acknowledged by Reclamation on March 24, 2011. The Geomorphic Mitigation Plan was submitted to Reclamation on March 15, 2011 and approved on April 26, 2011. Colorado Springs Utilities participates in a Joint Funding Agreement with the USGS regarding implementation of the Monitoring Plan.	No

ATTACHMENT 1
Annual Implementation Progress Matrix

Reporting Requirements		CY2021 Annual Report Information	
Reference	**Permit or Approval Document Requirement**	**Implementation Progress**	**Attachment Provided**
	h. Status of payments into the Fountain Creek monetary mitigation fund.	A check dated January 14, 2020 in the amount of $10,706,513.00 payable to the Fountain Creek Watershed Water Activity Enterprise was delivered by Utilities to the Fountain Creek Watershed, Flood Control and Greenway District (FCWFCGD) Executive Director on January 15, 2020. The payment was made in accordance with Condition 6 of the Southern Delivery System (SDS) 1041 Permit and as outlined in Pueblo County Resolution No. P&D 14-15 (confirming the commencement date for the annual indexing and approving the annual indexing methodology for purposes of calculating monetary mitigation). As outlined in Resolution No. P&D 14-15 and the associated attachment, Utilities and Pueblo County staff met in April 2020 when the originally reported "Preliminary" November 2019 Producer Price Index (PPI) for Finished Goods (WPUFD49207) value of 206.6 was updated to a "Finalized" published value of 206.4 (0.2 points less than the original published "Preliminary" value). Based on the decrease in the index value, it was calculated that the Total Annual Payment Amount with Indexing for the 2020 payment to the FCWFCGD should have been $10,696,183, which resulted in an overpayment and credit of $10,330 to Colorado Springs Utilities. On April 29, 2020, the SDS Partners (Colorado Springs Utilities, City of Fountain, Security Water District, and Pueblo West Metropolitan District) unanimously agreed as part of the SDS Operating Committee's quarterly meeting to allow the FCWFCGD's Watershed Water Activity Enterprise to retain the $10,330 overpayment in 2020 as an additional contribution to the District for use on a future project, program, or study within the Fountain Creek watershed as approved by Utilities on behalf of the SDS Partners. This overpayment amount was in addition to the $51,991,826 paid with interest between 2009 and 2020 (including $600,000 paid between 2009 and 2011 and $51,391,826 paid between 2016 and 2020) in full satisfaction of Condition No. 6 of the SDS 1041 Permit closing out each of the obligations under that provision of the Permit and totaling $52,002,156 in payments to the FCWFCGD.	No

ATTACHMENT 1
Annual Implementation Progress Matrix

Reporting Requirements		CY2021 Annual Report Information	
Reference	**Permit or Approval Document Requirement**	**Implementation Progress**	**Attachment Provided**
	h. Status of payments into the Fountain Creek monetary mitigation fund. (con't)	As outlined in Resolution No. P&D 14-15 and the associated attachment, "On or before March 31 of each year, CSU staff shall meet with Pueblo County Staff for purposes of confirming the PPIs for each of the November to November twelve month periods used in the calculation and reaching agreement upon the index-based amount to be paid by CSU utilizing the calculation methodology (described)…." This meeting was postponed until April 2017 when the previously reported "Preliminary" November 2016 PPI value of 192.6 for Finished Goods (WPUFD49207) was updated to a "Finalized" published value of 192.4 (0.2 points less than the original published "Preliminary" value). Based on this reduction in the index value, the Total Annual Payment Amount with Indexing for 2017 should have been $10,149,289. However, based on the "Preliminary" value of 192.6 used for the initial 2017 payment, a total payment of $10,159,839 was issued to the Fountain Creek Watershed Water Activity Enterprise. This in turn resulted in an overpayment of $10,550 in 2017 by Utilities as it relates to payments associated with Condition 6 of the SDS 1041 Permit. As the overpayment resulted in a credit of $10,550 to Utilities in 2017 as it relates to payments associated with Condition 6 of the SDS 1041 Permit, Utilities notified Pueblo County that Utilities intends to deduct this credited amount from the January 2018 Condition 6 Monetary Mitigation payment to the Fountain Creek Watershed Flood Control and Greenway District's Fountain Creek Watershed Water Activity Enterprise. The remaining annual payments shall be made on or before January 15 in 2018, 2019 and 2020.	No
	i. Status of expenditures for wastewater system improvements for Participants (and third party users in the Fountain Creek basin) per Permit Conditions.	Summary data are in located in Attachment 7.	Attachment 7 - Expenditures for Wastewater System Improvements

ATTACHMENT 1
Annual Implementation Progress Matrix

Reporting Requirements		CY2021 Annual Report Information	
Reference	**Permit or Approval Document Requirement**	**Implementation Progress**	**Attachment Provided**
	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).	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. SDS entities complied with the terms of the Pueblo Flow Management Program. Colorado Springs Utilities exchanges were curtailed to meet the recreational flow targets during the months of October, November and December 2020 and March, April, May, August and September 2021. No other SDS entities were exchanging during this period. While exchanges were curtailed the flow in the Arkansas River below Pueblo Dam did not drop below 50 cfs and no releases were made by Colorado Springs Utilities or Board of Water Works Pueblo per the Low Flow Agreement.	Attachment 11
	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 that align with Springs Utilities' Integrated Water Resources Plan. Colorado Springs Utilities incorporated the 2015 Water Use Efficiency Plan into its updated Integrated Water Resources Plan. As part of this implementation, Colorado Springs Utilities recently modified its Water Shortage Ordinance to only allow outdoor watering three (3) days per week. In 2018, both the City of Fountain and the Security Water District updated their respective water conservation/efficiency plans. Pueblo West Metropolitan District implemented its Water Conservation Plan in 2013, which was also incorporated into its 2017 Water Master Plan. Colorado Springs Utilities' Water Efficiency Plan will be updated in 2022.	No

ATTACHMENT 1
Annual Implementation Progress Matrix

Reporting Requirements		CY2021 Annual Report Information	
Reference	**Permit or Approval Document Requirement**	**Implementation Progress**	**Attachment Provided**
	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.The payment in-lieu of property tax for 2017 for the properties acquired in Pueblo County was made on April 13, 2017. The payment in-lieu of property tax for 2018 for the properties acquired in Pueblo County was made on April 23, 2018. The payment in-lieu of property tax for 2019 for the properties acquired in Pueblo County was made on April 25, 2019. The payment in-lieu of property tax for 2020 for the properties acquired in Pueblo County was made on April 23, 2020. As the properties were sold in 2019, the 2020 payment was the last payment required under this condition.	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
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 addresses the annual reporting requirements for all of the major programmatic permits. Pertinent raw data and reports are being submitted as part of this annual report, of which CDPHE is a recipient.	No
Fountain Creek WFCGD - Resolution 2010-01			
Technical Advisory Committee Condition 2, p. 3 (Also Citizen Advisory Committee Condition 2)	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. 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.	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

ATTACHMENT 2

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

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

ATTACHMENT 2

Monthly Average Flow Data

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: 2020-10-01 -> 2021-09-30) Period-of-record for statistical calculation restricted by user												Annual Average Flow	Long-Term Average Annual Simulated Streamflow
	2020			2021										
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep		
Mean of Monthly Discharge	73	98	85	86	88	138	100	231	188	179	135	88	124	253

Notes:

1. Data in the above table were queried from the USGS National Water Information System database (https://nwis.waterdata.usgs.gov/co/nwis) on November 17, 2021.
2. The annual average is computed from the monthly mean data published by the U.S. Geological Survey.
3. The long-term average annual simulated streamflow for the preferred alternative (Alt 2) was taken from Table 33 of the FEIS.

ATTACHMENT 3

Water Quality Monitoring Data

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 standards for Middle Arkansas River Basin segment 3, Lower Arkansas River Basin segment 1a, and Fountain Creek Basin segments 1a, 2a, 2b, and 6.

Colorado Springs Utilities continues to use effluent monitoring data from its Water Resource Recovery Facilities (WRRFs) to demonstrate the plants are operating in accordance with the specifications and standards associated with permits for its WRRFs. The only permit limit exceedances for the reporting period were at the JD Phillips Water Resource Recovery Facility (JDPWRRF) for the 95th percentile and Running Annual Median of Total Phosphorus (TP) as follows:

Date reported	95th percentile of Total Phosphorus (limit is 2.5 mg/L)	Running Annual Median of Total Phosphorus (limit is 1.0 mg/L)
October 2020	4.1 mg/L	1.4 mg/L
November 2020	4.1 mg/L	1.5 mg/L
December 2020	4.02 mg/L	1.73 mg/L
January 2021	4.1 mg/L	1.6 mg/L
February 2021	4.1 mg/L	1.5 mg/L
March 2021	4.1 mg/L	1.4 mg/L
April 2021	4.1 mg/L	In compliance
May 2021	3.4 mg/L	In compliance
June 2021	2.8 mg/L	In compliance
July 2021	2.6 mg/L	In compliance
August 2021	In compliance	In compliance

As of August 2021, the JD Phillips Water Resource Recovery Facility has been and continues to be in full compliance with all effluent limits for permit # CO0046850.

ATTACHMENT 3

Water Quality Monitoring Data

Location	Date	Sample Note	Barometric pressure (mmHg)	Flow (cfs)	Dissolved oxygen (mg/L)	pH	Specific conductance (µS/cm at 25°C)	Temperature (°C)	Turbidity (FNU)	Total Ammonia (mg/L as N)	Escherichia coli (#/100 mL)	Total coliform (#/100 mL)	Selenium (µg/L)
SP #1 FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO. USGS Site # 07103700	10-07-2020		612	8	9.3	8	300	8.3	2.3	< 0.02 @c	340	2,400	0.13
	10-28-2020	B	--	15	--	--	243	3.2	--	--	280	> 2,400	--
	11-05-2020		617	13	9.8	7.8	295	6.3	3.8	< 0.02 @c	1,000	> 2,400	0.09 n
	11-18-2020	B	--	12	--	--	193	5	--	--	190	> 2,400	--
	12-02-2020		615	8	11.7	--	316	0.1	1.1	< 0.02	260	1,100	0.1
	12-17-2020		606	12	11.5	8.1	311	0	1.7	< 0.02	110	580	0.13
	12-21-2020	B	--	11	--	--	201	3.3	--	--	250	920	--
	01-06-2021		612	9	11.7	8.1	317	0	1.2	< 0.02	100	210	0.14
	02-02-2021		610	7	11.2	8	316	1.4	1.9	< 0.02	88	200	0.16
	03-02-2021		608	11	11.6	8.2	347	0.1	6.4	< 0.02	1,200	1,400	0.14
	04-07-2021		606	11	10.6	8.1	309	3.2	6	< 0.02 @c	45	650	0.21
	05-07-2021		609	26	9.8	7.9	238	6.7	12	< 0.02	120	550	0.16
	05-17-2021	J	608	99	9.8	8.3	186	6.1	840	--	1,800	> 24,000	0.47
	06-04-2021		610	28 S	9	7.8	260	10.5	9.9	< 0.02	240	1,700	0.16
	07-09-2021		611	13	8.1	8.2	362	15	7.1	0.02 n	2,000	> 2,400	0.2
	07-31-2021	J	630	88	7.6	8	146	17.4	1770	--	17,000	> 24,000	0.46
	08-05-2021		616	26	8.6	8	214	12.8	17	< 0.02	930	4,900	0.13
	09-09-2021		612	15	8.7	7.9	215	12.1	3.8	< 0.02	1,600	4,900	0.09 n
Standards from WQCC Regulation No. 32, Appendix 32-1 (if applicable)		**See note 2, 4**			**6.0 (minimum)**	**6.5-9.0**		**Mar.-Nov.=28.6 Dec.-Feb.=25.2**		**See note 1**	**126**		**4.6 (chronic)**

Notes: 1. Standards for ammonia include calculations to be performed monthly and are not included as the small amount of data would yield inaccurate standards.

2. Samples with a note of B are bi-weekly bacteria samples, and those with a note of J are storm event samples, and are provided as additional data for informational purposes.

3. Data in the above table were queried from the USGS National Water Information System database (https://waterdata.usgs.gov/nwis) on January 5, 2021.

4. Bi-Weekly E.coli samples ceased in 2021

Legend

Description	Qualifier
no data for that parameter for that sample event	--
less than	<
greater than	>
estimated	E
holding time exceeded	@
see USGS result comment in NWIS	c
sample was diluted	d
below the reporting level but at or above the detection level	n
value verified by rerun, same method	r
value will likely be estimated when record is approved	#
data is preliminary and subject to change based on USGS QA/QC	S

ATTACHMENT 3

Water Quality Monitoring Data

Location	Date	Sample Note	Barometric pressure (mmHg)	Flow (cfs)	Dissolved oxygen (mg/L)	pH	Specific conductance (µS/cm at 25°C)	Temperature (°C)	Turbidity (FNU)	Total Ammonia (mg/L as N)	Escherichia coli (#/100 mL)	Total coliform (#/100 mL)	Selenium (µg/L)
SP #2 MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO USGS Site # 07104905	10-05-2020		615	16	8.9	8.2	730	11	1.7	0.36 @c	360	> 2,400	2.7
	10-28-2020	B	--	19	--	--	958	4.8	--	--	1,000	> 2,400	--
	11-02-2020		621	19	10	8.1	765	6.3	2.5	0.23 @c	310	> 2,400	2.8
	11-18-2020	B	--	20	--	--	567	8.2	--	--	140	2,400	--
	12-03-2020		617	16	11.4	--	748	2	2.1	0.84	63	> 2,400	3
	12-16-2020		610	15	11.1	8.2	982	1.2	2.7	0.1	70	980	4
	12-21-2020	B	--	22	--	--	549	4.6	--	--	91	2,000	--
	01-05-2021		607	14	10.7	8.1	863	2	2.7	0.11	130	1,400	3.9
	02-03-2021		608	16	10.4	8.2	862	3	5.1	0.16	93	980	3.2 d
	03-01-2021		618	10	11.2	8.1	1,070	0.8	5.2	0.53	210	490	3.8 d
	04-06-2021		604	27	9.3	8.3	810	7.3	4.5	0.03 @cn	54	920	2.7
	05-06-2021		619	54	9.6	8.2	618	7.9	42	0.03 n	74	2,500	1.6
	06-03-2021		613	43	8.5	8.1	660	12.9	29	< 0.02	170	> 2,400	2.3
	07-08-2021		614	25	7.8	8.3	723	17.2	11	0.02 n	440	> 2,400	2.1
	08-04-2021		617	60	7.6	8.2	568	18.3	27	< 0.02	930	> 24,000	1.7
	09-08-2021		618	22	8.1	8.3	744	15.1	3.4	< 0.02	500	16,000	2.3
Standards from WQCC Regulation No. 32, Appendix 32-1 (if applicable)		**See note 2, 4**			**5.0 (minimum)**	**6.5-9.0**		**Mar.-Nov.=28.6 Dec.-Feb.=25.2**		**See note 1**	**126**		**4.6 (chronic)**

Notes: 1. Standards for ammonia include calculations to be performed monthly and are not included as the small amount of data would yield inaccurate standards.

2. Samples with a note of B are bi-weekly bacteria samples, and those with a note of J are storm event samples, and are provided as additional data for informational purposes.

3. Data in the above table were queried from the USGS National Water Information System database (https://waterdata.usgs.gov/nwis) on January 5, 2021.

4. Bi-Weekly E.coli samples ceased in 2021

Legend

Description	Qualifier
no data for that parameter for that sample event	--
less than	<
greater than	>
estimated	E
holding time exceeded	@
see USGS result comment in NWIS	c
sample was diluted	d
below the reporting level but at or above the detection level	n
value verified by rerun, same method	r
value will likely be estimated when record is approved	#
data is preliminary and subject to change based on USGS QA/QC	S

ATTACHMENT 3

Water Quality Monitoring Data

Location	Date	Sample Note	Barometric pressure (mmHg)	Flow (cfs)	Dissolved oxygen (mg/L)	pH	Specific conductance (µS/cm at 25°C)	Temperature (°C)	Turbidity (FNU)	Total Ammonia (mg/L as N)	Escherichia coli (#/100 mL)	Total coliform (#/100 mL)	Selenium (µg/L)
SP #3 FOUNTAIN CREEK AT COLORADO SPRINGS, CO USGS Site # 07105500	10-05-2020		617	29	9	8	711	11.3	1.5	0.22 @c	730	2,400	2.5
	10-28-2020	B	--	33	--	--	753	5	--	--	1,100	> 2,400	--
	11-02-2020		622	32	10	7.8	709	7.1	2.7	0.14 @c	130	> 2,400	2.4
	11-18-2020	B	--	39	--	--	502	7.5	--	--	89	2,400	--
	12-03-2020		618	26	11.2	--	731	2.2	3.1	0.53	72	2,000	2.6
	12-16-2020		611	22	11.4	7.9	865	0.6	3	0.08	89	870	3.1
	12-21-2020	B	--	28	--	--	509	5.1	--	--	240	1,700	--
	01-05-2021		609	23	11.1	8	785	1.9	2.2	0.08	280	2,000	2.8
	02-03-2021		609	33	10.6	8.1	778	3.4	4.1	0.1	59	580	2.7
	03-01-2021		620	23	11.1	8	991	2.3	4.2	0.36	170	410	3.6
	04-06-2021		605	40	9.6	8.3	678	7.5	5.2	0.02 @cn	110	980	2.1
	05-06-2021		620	80	9.6	8	567	8.7	32	0.02 n	190	1,800	1.4
	06-03-2021		616	93	8.7	8	480	12.2	25	< 0.02	150	> 2,400	1.4
	07-08-2021		615	48	7.8	8.1	674	17.4	9.5	0.03 n	590	16,000	1.6
	08-04-2021		619	126	8	8	364	15.9	34	< 0.02	860	24,000	0.87
	09-08-2021		619	38	8.3	7.9	620	14.5	3.6	< 0.02	380	13,000	1.6
Standards from WQCC Regulation No. 32, Appendix 32-1 (if applicable)		**See note 2, 4**			**5.0 (minimum)**	**6.5-9.0**		**Mar.-Nov.=28.6 Dec.-Feb.=25.2**		**See note 1**	**126**		**4.8 (chronic)**

Notes: 1. Standards for ammonia include calculations to be performed monthly and are not included as the small amount of data would yield inaccurate standards.

2. Samples with a note of B are bi-weekly bacteria samples, and those with a note of J are storm event samples, and are provided as additional data for informational purposes.

3. Data in the above table were queried from the USGS National Water Information System database (https://waterdata.usgs.gov/nwis) on January 5, 2021.

4. Bi-Weekly E.coli samples ceased in 2021

Legend

Description	Qualifier
no data for that parameter for that sample event	--
less than	<
greater than	>
estimated	E
holding time exceeded	@
see USGS result comment in NWIS	c
sample was diluted	d
below the reporting level but at or above the detection level	n
value verified by rerun, same method	r
value will likely be estimated when record is approved	#
data is preliminary and subject to change based on USGS QA/QC	S

ATTACHMENT 3

Water Quality Monitoring Data

Location	Date	Sample Note	Barometric pressure (mmHg)	Flow (cfs)	Dissolved oxygen (mg/L)	pH	Specific conductance (µS/cm at 25°C)	Temperature (°C)	Turbidity (FNU)	Total Ammonia (mg/L as N)	Escherichia coli (#/100 mL)	Total coliform (#/100 mL)	Selenium (µg/L)
	10-05-2020		618	75	8.7	8.1	644	18.1	3	0.1 @c	770	> 2,400	2.2
	10-28-2020	B	--	87	--	--	670	13.1	--	--	1,100	> 2,400	--
	11-02-2020		623	84	8.9	7.8	685	15.9	4.2	0.09 @c	140	> 2,400	2.6
	11-18-2020	B	--	79	--	--	575	13.8	--	--	290	> 2,400	--
	12-03-2020		619	84	9.6	--	693	11.7	6.8	0.24	170	> 2,400	2.7
	12-16-2020		614	56	10.1	8.1	815	8.2	4.2	0.17	110	> 2,400	3
	12-21-2020	B	--	60	--	--	543	9.3	--	--	250	2,000	--
SP #4	01-05-2021		610	47	10.5	8.2	783	9	3.1	0.09	160	2,000	3.1
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	02-03-2021		610	43	10.8	8.3	829	8.3	3.6	0.13	98	1,300	3.4
USGS Site # 07105530	03-01-2021		621	43	10.7	8.2	889	9.2	3.8	0.47	110	1,200	2.8
	04-06-2021		606	56	9.7	8.5	730	12.8	4.5	0.05 @c	60	1,200	2.7
	05-06-2021		622	105	8.9	8	649	12.5	26	0.03 n	120	3,100	1.8
	06-03-2021		617	122	8.1	8	620	15.4	19	0.03 n	130	> 2,400	2
	07-08-2021		616	89	7.5	8	720	20.5	7.9	0.07	170	> 2,400	1.9
	07-31-2021	J	630	3,080	8.4	8.4	129	19.7	280	--	20,000	> 24,000	0.65
	08-04-2021		620	181	7.8	8	484	17.8	31	< 0.02	1,100	> 24,000	1.3
	09-08-2021		620	90	7.7	8	720	19.4	8.2	0.03 n	320	14,000	--
Standards from WQCC Regulation No. 32, Appendix 32-1 (if applicable)		**See note 2, 4**			**5.0 (minimum)**	**6.5-9.0**		**Mar.-Nov.=28.6 Dec.-Feb.=25.2**		**See note 1**	**126**		**4.8 (chronic)**

Notes: 1. Standards for ammonia include calculations to be performed monthly and are not included as the small amount of data would yield inaccurate standards.

2. Samples with a note of B are bi-weekly bacteria samples, and those with a note of J are storm event samples, and are provided as additional data for informational purposes.

3. Data in the above table were queried from the USGS National Water Information System database (https://waterdata.usgs.gov/nwis) on January 5, 2021.

4. Bi-Weekly E.coli samples ceased in 2021

Legend

Description	Qualifier
no data for that parameter for that sample event	--
less than	<
greater than	>
estimated	E
holding time exceeded	@
see USGS result comment in NWIS	c
sample was diluted	d
below the reporting level but at or above the detection level	n
value verified by rerun, same method	r
value will likely be estimated when record is approved	#
data is preliminary and subject to change based on USGS QA/QC	S

ATTACHMENT 3

Water Quality Monitoring Data

Location	Date	Sample Note	Barometric pressure (mmHg)	Flow (cfs)	Dissolved oxygen (mg/L)	pH	Specific conductance (µS/cm at 25°C)	Temperature (°C)	Turbidity (FNU)	Total Ammonia (mg/L as N)	Escherichia coli (#/100 mL)	Total coliform (#/100 mL)	Selenium (µg/L)
SP #5 FOUNTAIN CREEK AT SECURITY, CO USGS Site # 07105800	10-06-2020		625	65	8.5	7.9	735	11.8	6.1	0.38 @c	180	> 2,400	2.7
	10-28-2020	B	--	88	--	--	877	8.8	--	--	1,000	> 2,400	--
	11-05-2020		628	80	9	7.7	769	10.1	7.2	0.34 @c	140	> 2,400	2.7
	11-18-2020	B	--	71	--	--	618	11.1	--	--	410	> 2,400	--
	12-01-2020		618	77	9.9	--	742	5.1	6.3	0.44	180	> 2,400	2.9
	12-17-2020		619	61	11	8.3	855	1.5	6.6	0.55	160	1,600	3
	12-21-2020	B	--	53	--	--	620	8.4	--	--	39	1,600	--
	01-06-2021		624	71	11	8.1	853	1.8	7.5	1.07	1,300	> 2,400	3.4
	02-01-2021		624	52	11.2	8.1	974	1.8	5.9	0.9	170	490	3.9 d
	03-02-2021		620	54	11	8.2	980	2.3	9.6	0.8	100	> 2,400	4
	04-07-2021		618	88	9.8	8.1	825	6.3	8.2	0.42 @c	59	1,100	3.1
	05-07-2021		621	114	8.8	8.1	691	10.6	33	0.32	180	1,900	2.3
	06-04-2021		621	131	8.2	8	689	14.3	26	0.2	140	> 2,400	2.3
	07-09-2021		622	93	7.6	8.3	768	17.8	16	0.04	520	> 2,400	2.7 r
	08-05-2021		625	152 S	7.9	8.1	562	16.4	30	< 0.02	440	24,000	1.6
	09-09-2021		624	86 S	7.9	8.1	768	16	8.8	0.46	190	10,000	2.1
Standards from WQCC Regulation No. 32, Appendix 32-1 (if applicable)		**See note 2, 4**			**5.0 (minimum)**	**6.5-9.0**		**Mar.-Nov.=28.6 Dec.-Feb.=25.2**		**See note 1**	**126**		**4.8 (chronic)**

Notes: 1. Standards for ammonia include calculations to be performed monthly and are not included as the small amount of data would yield inaccurate standards.

2. Samples with a note of B are bi-weekly bacteria samples, and those with a note of J are storm event samples, and are provided as additional data for informational purposes.

3. Data in the above table were queried from the USGS National Water Information System database (https://waterdata.usgs.gov/nwis) on January 5, 2021.

4. Bi-Weekly E.coli samples ceased in 2021

Legend

Description	Qualifier
no data for that parameter for that sample event	--
less than	<
greater than	>
estimated	E
holding time exceeded	@
see USGS result comment in NWIS	c
sample was diluted	d
below the reporting level but at or above the detection level	n
value verified by rerun, same method	r
value will likely be estimated when record is approved	#
data is preliminary and subject to change based on USGS QA/QC	S

ATTACHMENT 3

Water Quality Monitoring Data

Location	Date	Sample Note	Barometric pressure (mmHg)	Flow (cfs)	Dissolved oxygen (mg/L)	pH	Specific conductance (µS/cm at 25°C)	Temperature (°C)	Turbidity (FNU)	Total Ammonia (mg/L as N)	Escherichia coli (#/100 mL)	Total coliform (#/100 mL)	Selenium (µg/L)
SP #6 FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO USGS Site # 383854104413601	10-07-2020		627	64	8.4	8.6	773	18.2	6.5	0.02 @cn	61	2,000	2.8
	10-29-2020	B	--	104	--	--	728	6.2	--	--	1,100	> 2,400	--
	11-05-2020		632	82	9.6	8.4	799	12.6	9	0.07 @c	73	> 2,400	2.9
	11-19-2020	B	--	87	--	--	637	11.2	--	--	170	> 2,400	--
	12-03-2020		627	81	10.9	8.7	839	6.9	7.2	0.38	57	> 2,400	2.9
	12-17-2020	B	--	76	--	--	603	2.5	--	--	63	2,000	--
	01-12-2021		627	70	13	8.4	1,260	0.2	12	0.38 @c	93	1,700	3.4 d
	02-08-2021		617	67	12.1	8.5	921	2.1	8.5	0.43	44	820	3.8 d
	03-04-2021		621	57	10.6	8.5	988	4.3	8.6	0.29	45	1,600	3.8
	04-09-2021		622	60	11.2	8.6	931	8.2	4.9	< 0.02 @c	23	550	3.3 d
	05-07-2021		622	101	7.9	8.2	777	18.5	27	0.06	20	630	2.5
	06-09-2021		627	112	7.8	8.2	756	16.5	21	< 0.02 @c	190	> 2,400	2.3
	07-07-2021		628	102	7.1	8.2	816	21.1	18	0.06	200	13,000	2.4
	08-03-2021		627	156	7.2	8.4	675	19.4	--	< 0.02	790	24,000	1.8
	09-01-2021		621	74	8.3	8.3	788	19.1	5.8	0.07	61	> 2,400	2.3
	09-13-2021		623	108	6.8	8.1	813	24.6	9.5	--	550	> 2,400	--
Standards from WQCC Regulation No. 32, Appendix 32-1 (if applicable)		**See note 2, 4**			**5.0 (minimum)**	**6.5-9.0**		**Mar.-Nov.=28.6 Dec.-Feb.=25.2**		**See note 1**	**126**		**4.8 (chronic)**

Notes: 1. Standards for ammonia include calculations to be performed monthly and are not included as the small amount of data would yield inaccurate standards.

2. Samples with a note of B are bi-weekly bacteria samples, and those with a note of J are storm event samples, and are provided as additional data for informational purposes.

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4. Bi-Weekly E.coli samples ceased in 2021

Legend

Description	Qualifier
no data for that parameter for that sample event	--
less than	<
greater than	>
estimated	E
holding time exceeded	@
see USGS result comment in NWIS	c
sample was diluted	d
below the reporting level but at or above the detection level	n
value verified by rerun, same method	r
value will likely be estimated when record is approved	#
data is preliminary and subject to change based on USGS QA/QC	S

ATTACHMENT 3

Water Quality Monitoring Data

Location	Date	Sample Note	Barometric pressure (mmHg)	Flow (cfs)	Dissolved oxygen (mg/L)	pH	Specific conductance (µS/cm at 25°C)	Temperature (°C)	Turbidity (FNU)	Total Ammonia (mg/L as N)	Escherichia coli (#/100 mL)	Total coliform (#/100 mL)	Selenium (µg/L)
SP #7 FOUNTAIN CREEK NEAR FOUNTAIN, CO. USGS Site # 07106000	10-07-2020		628	63	8.2	8.6	869	19.9	8.1	< 0.02 @c	26	1,300	3.3
	10-29-2020	B	--	108	--	--	780	7.5	--	--	1,000	> 2,400	--
	11-05-2020		633	105	8.7	8.2	857	14	13	0.03 @nc	33	> 2,400	3.2
	11-19-2020	B	--	122	--	--	689	11.9	--	--	75	2,400	--
	12-03-2020		629	95	10.3	8.5	881	6.1	9.2	0.21	11	1,700	3.4
	12-17-2020	B	--	78	--	--	640	2.9	--	--	31	2,400	--
	01-12-2021		629	94	12.3	8.4	1,240	1.7	16	0.32 @c	28	1,000	3.3 d
	02-08-2021		620	80	11.4	8.5	958	4.3	8.9	0.3	4	490	3.7 d
	03-04-2021		623	92	10.6	8.4	1,020	5.4	11	0.17	23	920	3.8 d
	04-09-2021		624	70	9.2	8.5	1,010	12.3	6	< 0.02 @c	1	220	3.8 d
	05-07-2021		622	124	7.3	8.1	839	19	29	0.03 n	41	1,200	2.7
	06-09-2021		629	138	7.5	8.2	810	19.4	18	< 0.02 @c	99	> 2,400	2.5
	07-07-2021		629	102	6.2	8.2	874	27.9	32	0.23	63	20,000	2.8
	08-03-2021		627	197	7	8.2	693	21.2	--	< 0.02	400	24,000	2.1
	09-01-2021		621	80	8.5	8.4	877	21.7	9.1	< 0.02	120	> 2,400	2.8 d
	09-13-2021		624	109	6.6	8	870	24.5	8.6	--	460	> 2,400	--
Standards from WQCC Regulation No. 32, Appendix 32-1 (if applicable)		**See note 2, 4**			**5.0 (minimum)**	**6.5-9.0**		**Mar.-Nov.=28.6 Dec.-Feb.=25.2**		**See note 1**	**126**		**4.8 (chronic)**

Notes: 1. Standards for ammonia include calculations to be performed monthly and are not included as the small amount of data would yield inaccurate standards.

2. Samples with a note of B are bi-weekly bacteria samples, and those with a note of J are storm event samples, and are provided as additional data for informational purposes.

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4. Bi-Weekly E.coli samples ceased in 2021

Legend

Description	Qualifier
no data for that parameter for that sample event	--
less than	<
greater than	>
estimated	E
holding time exceeded	@
see USGS result comment in NWIS	c
sample was diluted	d
below the reporting level but at or above the detection level	n
value verified by rerun, same method	r
value will likely be estimated when record is approved	#
data is preliminary and subject to change based on USGS QA/QC	S

ATTACHMENT 3

Water Quality Monitoring Data

Location	Date	Sample Note	Barometric pressure (mmHg)	Flow (cfs)	Dissolved oxygen (mg/L)	pH	Specific conductance (µS/cm at 25°C)	Temperature (°C)	Turbidity (FNU)	Total Ammonia (mg/L as N)	Escherichia coli (#/100 mL)	Total coliform (#/100 mL)	Selenium (µg/L)
SP #8 FOUNTAIN CREEK NEAR PINON, CO USGS Site # 07106300	10-08-2020		635	34	9.1	8.1	1,040	9.7	35	< 0.02 @c	200	2,400	3.6 d
	10-22-2020	B	--	66	--	--	769	10.3	--	--	170	> 2,400	--
	11-04-2020		637	94	8.1	8.5	975	16.4	50	< 0.02 @c	58	> 2,400	3.5
	11-19-2020	B	--	88	--	--	824	13.5	--	--	36	> 2,400	--
	12-01-2020		634	106	11.2	8.3	971	2.2	61	0.11	78	> 2,400	3.4
	12-17-2020	B	--	80	--	--	672	2.1	--	--	29	> 2,400	--
	01-12-2021		636	78	10.9	8.2	1,100	3.6	54	0.1 @c	25	820	4 d
	02-08-2021		627	69	10	8.3	1,060	7	47	0.12	5	730	4.1 d
	03-04-2021		631	68	10.1	8.3	1,120	5.8	44	< 0.02	8	520	4.6 d
	04-09-2021		632	49	8.3	8.3	1,100	16	14	< 0.02 @c	4	200	4 d
	05-07-2021		634	91	8.5	8.1	984	14	57	< 0.02	41	860	3 dc
	06-09-2021		636	106	7.1	8.2	913	23	42	< 0.02 @c	91	> 2,400	3.1
	07-07-2021		638	114	6.5	8.3	960	26	220	0.03 n	490	> 24,000	7.8 r
	08-03-2021		636	200	6.7	8.1	746	24.7	--	< 0.02	860	> 24,000	2.3
	09-01-2021		630	34	7.4	8.3	1,020	25.2	20	< 0.02	440	> 2,400	3
	09-13-2021		632	83	6.7	8.1	925	24.4	33	--	650	> 2,400	--
Standards from WQCC Regulation No. 32, Appendix 32-1 (if applicable)		**See note 2, 4**			**5.0 (minimum)**	**6.5-9.0**		**Mar.-Nov.=28.6 Dec.-Feb.=25.2**		**See note 1**	**126**		**4.8 (chronic)**

Notes: 1. Standards for ammonia include calculations to be performed monthly and are not included as the small amount of data would yield inaccurate standards.

2. Samples with a note of B are bi-weekly bacteria samples, and those with a note of J are storm event samples, and are provided as additional data for informational purposes.

3. Data in the above table were queried from the USGS National Water Information System database (https://waterdata.usgs.gov/nwis) on January 5, 2021.

4. Bi-Weekly E.coli samples ceased in 2021

Legend

Description	Qualifier
no data for that parameter for that sample event	--
less than	<
greater than	>
estimated	E
holding time exceeded	@
see USGS result comment in NWIS	c
sample was diluted	d
below the reporting level but at or above the detection level	n
value verified by rerun, same method	r
value will likely be estimated when record is approved	#
data is preliminary and subject to change based on USGS QA/QC	S

ATTACHMENT 3

Water Quality Monitoring Data

Location	Date	Sample Note	Barometric pressure (mmHg)	Flow (cfs)	Dissolved oxygen (mg/L)	pH	Specific conductance (µS/cm at 25°C)	Temperature (°C)	Turbidity (FNU)	Total Ammonia (mg/L as N)	Escherichia coli (#/100 mL)	Total coliform (#/100 mL)	Selenium (µg/L)
	10-08-2020		642	46	8.5	8.7	1,110	18.7	16	< 0.02 @c	98	2,400	5.3 d
	10-21-2020	B	--	66	--	--	796	8.1	--	--	99	2,400	--
	11-03-2020		642	89	9.1	8.5	1,050	12.2	53	< 0.02 @c	96	> 2,400	4.4
	11-23-2020	B	--	119	--	--	721	3.5	--	--	50	> 2,400	--
	12-01-2020		640	149	11.1	8.4	1,060	3.7	37	< 0.02	46	> 2,400	4.2 d
	12-16-2020	B	--	80	--	--	692	2.1	--	--	7	600	--
SP #9	01-07-2021		642	77	11.3	8.3	1,120	3.5	26	< 0.02	2	410	5.4 d
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	02-04-2021		640	81	11.3	8.3	1,170	3	18	< 0.02	4	150	5.4 d
USGS Site # 381840104361001	03-03-2021		641	71	9.7	8.4	1,210	10.1	26	< 0.02	< 1	140	5.8 d
	04-08-2021		637	87	10	8.3	1,130	7.9	19	< 0.02 @c	4	300	5.2 d
	05-14-2021		642	120	9.1	8.2	986	11.3	67	0.03 n	110	4,400	4.2
	06-11-2021		643	94	8.3	8.3	1,040	16.2	25	< 0.02 @c	150	> 2,400	4.4 d
	07-14-2021		640	69	7.7	8.3	1,100	20	21	< 0.02	110	5,200	4.8 d
	08-06-2021		640	129	7.3	8.3	894	21.9	74	< 0.02	270	> 24,000	3.3
	09-02-2021		640	38	7.8	8.4	1,150	21.3	8.2	0.06	52	5,500	5.7
Standards from WQCC Regulation No. 32, Appendix 32-1 (if applicable)		**See note 2, 4**			**5.0 (minimum)**	**6.5-9.0**		**Mar.-Nov.=28.6 Dec.-Feb.=25.2**		**See note 1**	**126**		**4.8 (chronic)**

Notes: 1. Standards for ammonia include calculations to be performed monthly and are not included as the small amount of data would yield inaccurate standards.

2. Samples with a note of B are bi-weekly bacteria samples, and those with a note of J are storm event samples, and are provided as additional data for informational purposes.

3. Data in the above table were queried from the USGS National Water Information System database (https://waterdata.usgs.gov/nwis) on January 5, 2021.

4. Bi-Weekly E.coli samples ceased in 2021

Legend

Description	Qualifier
no data for that parameter for that sample event	--
less than	<
greater than	>
estimated	E
holding time exceeded	@
see USGS result comment in NWIS	c
sample was diluted	d
below the reporting level but at or above the detection level	n
value verified by rerun, same method	r
value will likely be estimated when record is approved	#
data is preliminary and subject to change based on USGS QA/QC	S

ATTACHMENT 3

Water Quality Monitoring Data

Location	Date	Sample Note	Barometric pressure (mmHg)	Flow (cfs)	Dissolved oxygen (mg/L)	pH	Specific conductance (µS/cm at 25°C)	Temperature (°C)	Turbidity (FNU)	Total Ammonia (mg/L as N)	Escherichia coli (#/100 mL)	Total coliform (#/100 mL)	Selenium (µg/L)
	10-07-2020		644	49	8.2	8.2	1,170	16.3	15	< 0.02 @c	180	2,400	10.1 d
	10-19-2020	B	--	95	--	--	881	7.7	--	--	440	2,400	--
	11-05-2020		647	96	8.8	8.5	1,070	15	62	< 0.02 @c	110	> 2,400	6.2
	11-16-2020	B	--	99	--	--	871	10.3	--	--	45	> 2,400	--
	12-04-2020		645	84	10.2	8.4	1,070	7	48	0.06	24	> 2,400	6.2 d
	12-14-2020	B	--	61	--	--	747	0.8	--	--	12	> 2,400	--
SP #10	01-07-2021		642	70	10.8	8.3	1,160	5.3	23	0.04 n	8	390	8.6 d
FOUNTAIN CREEK AT PUEBLO, CO.	02-10-2021		640	78	11.7	8.4	1,170	1.3	18	< 0.02	2	230	8.7 d
USGS Site # 07106500	03-03-2021		641	80	9.3	8.4	1,240	12.2	28	< 0.02	4	150	8.8 d
	04-08-2021		637	87	9.4	8.4	1,170	11.7	18	< 0.02 @c	4	260	8.2 d
	05-14-2021		642	157	8.3	8.3	1,020	15.7	63	0.1	86	> 2,400	5.4 d
	06-11-2021		644	128	8.1	8.3	1,080	18.5	26	0.02 @cn	140	> 2,400	6.3 d
	07-14-2021		642	69	7.5	8.4	1,180	23.2	21	< 0.02	110	3,000	8.4 d
	08-05-2021		645	212	7.5	8.3	870	20.6	110	< 0.02	450	> 24,000	4.7
	09-01-2021		637	42	7.7	8.5	1,260	24.4	8.1	< 0.02	20	4,400	12.2 d
Standards from WQCC Regulation No. 32, Appendix 32-1 (if applicable)		**See note 2, 4**			**5.0 (minimum)**	**6.5-9.0**		**Mar.-Nov.=28.6 Dec.-Feb.=25.2**		**See note 1**	**126**		**28.1 (chronic)**

Notes: 1. Standards for ammonia include calculations to be performed monthly and are not included as the small amount of data would yield inaccurate standards.

2. Samples with a note of B are bi-weekly bacteria samples, and those with a note of J are storm event samples, and are provided as additional data for informational purposes.

3. Data in the above table were queried from the USGS National Water Information System database (https://waterdata.usgs.gov/nwis) on January 5, 2021.

4. Bi-Weekly E.coli samples ceased in 2021

Legend

Description	Qualifier
no data for that parameter for that sample event	--
less than	<
greater than	>
estimated	E
holding time exceeded	@
see USGS result comment in NWIS	c
sample was diluted	d
below the reporting level but at or above the detection level	n
value verified by rerun, same method	r
value will likely be estimated when record is approved	#
data is preliminary and subject to change based on USGS QA/QC	S

ATTACHMENT 3

Water Quality Monitoring Data

Location	Date	Sample Note	Barometric pressure (mmHg)	Flow (cfs)	Dissolved oxygen (mg/L)	pH	Specific conductance (µS/cm at 25°C)	Temperature (°C)	Turbidity (FNU)	Total Ammonia (mg/L as N)	Escherichia coli (#/100 mL)	Total coliform (#/100 mL)	Selenium (µg/L)
	10-08-2020		642	38	8.6	8.6	1,220	15	14	< 0.02 @c	54	2,400	10 d
	10-20-2020	B	--	69	--	--	834	7.7	--	--	190	> 2,400	--
	11-03-2020		645	99	9.6	8.5	1,130	10	51	< 0.02 @c	130	> 2,400	7.5
	11-17-2020	B	--	136	--	--	786	5.8	--	--	99	> 2,400	--
	12-03-2020		648	96	12.1	8.3	1,160	0	110	0.05	110	> 2,400	7.6 d
	12-16-2020	B	--	70	--	--	719	0.6	--	--	28	1,300	--
SP #11	01-07-2021		644	75	11.8	8.2	1,200	1.8	25	< 0.02	9	770	9 d
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	02-04-2021		642	68	11.4	8.3	1,240	1.9	22	< 0.02	8	140	9.2 d
USGS Site # 381601104355801	03-03-2021		643	74	10.1	8.3	1,280	6	26	0.03 n	4	220	8.9 d
	04-08-2021		636	75	8.5	8.5	1,190	16	19	< 0.02 @c	2	180	8.7 d
	05-14-2021		642	175	8.8	8.2	1,030	13.4	72	0.03 n	75	5,200	5.8 d
	06-11-2021		645	100	7.6	8.3	1,100	21.5	27	0.03 @cn	96	> 2,400	6.8 d
	07-14-2021		643	72	7.1	8.4	1,190	24	24	< 0.02	110	7,700	8.6 d
	08-06-2021		643	116	7.6	8.3	952	19.2	78	< 0.02	520	> 24,000	4.7
	09-02-2021		641	47	7.2	8.5	1,270	25.8	9.3	< 0.02	62	8,200	12 d
Standards from WQCC Regulation No. 32, Appendix 32-1 (if applicable)		**See note 2, 4**			**5.0 (minimum)**	**6.5-9.0**		**Mar.-Nov.=28.6 Dec.-Feb.=25.2**		**See note 1**	**126**		**28.1 (chronic)**

Notes: 1. Standards for ammonia include calculations to be performed monthly and are not included as the small amount of data would yield inaccurate standards.

2. Samples with a note of B are bi-weekly bacteria samples, and those with a note of J are storm event samples, and are provided as additional data for informational purposes.

3. Data in the above table were queried from the USGS National Water Information System database (https://waterdata.usgs.gov/nwis) on January 5, 2021.

4. Bi-Weekly E.coli samples ceased in 2021

Legend

Description	Qualifier
no data for that parameter for that sample event	--
less than	<
greater than	>
estimated	E
holding time exceeded	@
see USGS result comment in NWIS	c
sample was diluted	d
below the reporting level but at or above the detection level	n
value verified by rerun, same method	r
value will likely be estimated when record is approved	#
data is preliminary and subject to change based on USGS QA/QC	S

ATTACHMENT 3

Water Quality Monitoring Data

Location	Date	Sample Note	Barometric pressure (mmHg)	Flow (cfs)	Dissolved oxygen (mg/L)	pH	Specific conductance (µS/cm at 25°C)	Temperature (°C)	Turbidity (FNU)	Total Ammonia (mg/L as N)	Escherichia coli (#/100 mL)	Total coliform (#/100 mL)	Selenium (µg/L)
SP #12 ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO USGS Site # 07099971	10-08-2020		644	79	8.9	8.4	547	16.4	1.4	< 0.02 @c	25	> 2,400	16.5 d
	10-19-2020	B	--	73	--	--	488	11.8	--	--	19	1,600	--
	11-04-2020		646	117	11.1	8.8	539	12.4	2.3	< 0.02 @c	16	2,400	16.1 d
	11-16-2020	B	--	109	--	--	459	10.5	--	--	16	2,400	--
	12-04-2020		647	92	12.5	8.8	585	6.5	1.9	< 0.02	24	1,200	16.4 d
	12-14-2020	B	--	99	--	--	441	3.8	--	--	52	2,000	--
	01-07-2021		644	100	12.3	8.5	600	3.5	2	< 0.02	7	200	16.1 d
	02-10-2021		643	77	12.2	8.5	733	1.7	1.6	--	37	260	26.9 d
	03-10-2021		637	55	12.4	8.9	772	11.3	2.4	< 0.02	6	410	29.2 d
	04-08-2021		637	168	11.6	8.8	534	8.8	1.5	< 0.02 @c	13	770	13.2 d
	05-13-2021		646	364	11	8.8	496	11.4	2.8	< 0.02	21	2,400	9.9
	05-25-2021		645	845	10.2	8.3	486	10.9	4.1	0.02 n	63	1,700	8.4
	06-11-2021		645	1,700	10.1	8.8	449	13.6	3.1	0.04 @cn	42	610	7.1
	07-13-2021		643	445	9.7	8.5	465	17.6	4	< 0.02	120	> 2,400	7.4
	08-05-2021		646	883	9.1	8.6	446	19.6	6.2	< 0.02	480	> 2,400	6.4
	09-02-2021		641	67	9.6	8.8	698	24.2	2.1	0.03 n	27	> 2,400	21.9 d
Standards from WQCC Regulation No. 32, Appendix 32-1 (if applicable)		**See note 2, 5**			**5.0 (minimum)**	**6.5-9.0**		**Mar.-Nov.=28.6 Dec.-Feb.=25.2**		**See note 1**	**126**		**17.1 (chronic)**

Notes: 1. Standards for ammonia include calculations to be performed monthly and are not included as the small amount of data would yield inaccurate standards.

2. Samples with a note of B are bi-weekly bacteria samples, and those with a note of J are storm event samples, and are provided as additional data for informational purposes.

3. Data in the above table were queried from the USGS National Water Information System database (https://waterdata.usgs.gov/nwis) on January 5, 2021.

4. Station # updated to 07099971. Data that corresponds to Station #07099970 can be identified using new station #

5. Bi-Weekly E.coli samples ceased in 2021

Legend

Description	Qualifier
no data for that parameter for that sample event	--
less than	<
greater than	>
estimated	E
holding time exceeded	@
see USGS result comment in NWIS	c
sample was diluted	d
below the reporting level but at or above the detection level	n
value verified by rerun, same method	r
value will likely be estimated when record is approved	#
data is preliminary and subject to change based on USGS QA/QC	S

ATTACHMENT 3

Water Quality Monitoring Data

Location	Date	Sample Note	Barometric pressure (mmHg)	Flow (cfs)	Dissolved oxygen (mg/L)	pH	Specific conductance (µS/cm at 25°C)	Temperature (°C)	Turbidity (FNU)	Total Ammonia (mg/L as N)	Escherichia coli (#/100 mL)	Total coliform (#/100 mL)	Selenium (µg/L)
SP #13 ARKANSAS RIVER NEAR AVONDALE, CO. USGS Site # 7109500	10-06-2020		648	242	8.3	8.3	804	20.9	10	< 0.02 @c	40	> 2,400	11.5 d
	10-19-2020	B	--	277	--	--	661	8.2	--	--	120	> 2,400	--
	11-02-2020		651	314	9.1	8.4	800	14	20	< 0.02 @c	24	2,400	11.9 d
	11-16-2020	B	--	250	--	--	680	8.7	--	--	18	> 2,400	--
	12-04-2020		651	291	11.7	8.3	890	3.3	27	0.13	36	2,400	10.7 d
	12-14-2020	B	--	288	--	--	581	0.5	--	--	85	1,600	--
	01-05-2021		640	259 S	11.6	8.3	920	4.9	14	0.05	7	370	12.3 d
	02-10-2021		646	232 S	11.5	8.2	985	1.4	14	--	40	520	14.2 d
	03-10-2021		640	273 S	10	8.3	1,020	11.4	19	< 0.02	18	340	15.2 d
	04-08-2021		641	402 S	9.7	8.3	784	11.5	15	< 0.02 @c	30	1,300	10.3 d
	05-14-2021		646	628 S	8.3	8	729	12.8	43	0.06	56	> 2,400	9.4 d
	05-26-2021		647	1,200 S	8.4	8.2	578	13.5	72	0.04 n	150	12,000	8.1
	06-10-2021		644	3,100 S	8.5	8.2	506	14.2	44	0.05 @c	98	3,100	7.2
	07-13-2021		646	888 S	7.2	8.2	621	21.5	40	0.03 n	62	> 2,400	9.2
	08-05-2021		649	1,040 S	7.2	8.2	583	21	130	< 0.02	320	> 24,000	6.6
	09-01-2021		639	314 S	7.1	8.3	713	25.2	9.5	< 0.02	39	> 2,400	7.7
Standards from WQCC Regulation No. 32, Appendix 32-1 (if applicable)		**See note 2, 4**			**5.0 (minimum)**	**6.5-9.0**		**Mar.-Nov.=28.6 Dec.-Feb.=25.2**		**See note 1**	**126**		**14.1 (chronic)**

Notes: 1. Standards for ammonia include calculations to be performed monthly and are not included as the small amount of data would yield inaccurate standards.

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3. Data in the above table were queried from the USGS National Water Information System database (https://waterdata.usgs.gov/nwis) on January 5, 2021.

4. Bi-Weekly E.coli samples ceased in 2021

Legend

Description	Qualifier
no data for that parameter for that sample event	--
less than	<
greater than	>
estimated	E
holding time exceeded	@
see USGS result comment in NWIS	c
sample was diluted	d
below the reporting level but at or above the detection level	n
value verified by rerun, same method	r
value will likely be estimated when record is approved	#
data is preliminary and subject to change based on USGS QA/QC	S

ATTACHMENT 4

Complaint Log

Complaint logs are only recorded during construction, so no attachment is included. This activity will resume during Phase II construction.

ATTACHMENT 5

Emergency Response Log

Emergency response logs are only recorded during construction, so no attachment is included. This activity will resume during Phase II construction.

ATTACHMENT 6

Log of Work Occurring During Non-Typical Work Hours

Non-typical work hours are only recorded during construction, so no attachment is included. This activity will resume during Phase II construction.

ATTACHMENT 7

Expenditures for Wastewater System Improvements

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

Pueblo County 1041 Permit

Expenditures for Wastewater System Improvements

Annual Progress Report

January 14, 2022

Reporting for the period between January 1, 2021 and December 31, 2021

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Table of Contents

Introduction

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 (SDS) 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 of the prior year. 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 2021 the projects that met the terms of Condition No. 7 included projects conducted specifically under the Local Collectors Evaluation and Rehabilitation Program (LCERP) which consists of the systematic evaluation and rehabilitation of sanitary sewer collection pipes less than 10-inches in diameter.

Project Descriptions

Local Collectors Evaluation and Rehabilitation Program (LCERP)

LCERP consists of the systematic evaluation and rehabilitation of sanitary 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)
- Is part of the overall long-term investments in our wastewater system.

In 2021, LCERP repaired or rehabilitated approximately 60,805 feet (or 11.52 miles) of less than 10-inch sewer pipe, representing approximately 208 line segments, at a cost of $2,574,603.

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 R&R program rehabilitates or replaces large diameter (10-inch and greater) sanitary 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 protects the public health and environment.

In 2021, Colorado Springs Utilities did not perform any work under the R&R program.

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.

In 2021, all manhole related projects were conducted under normal operation and maintenance operations.

Wastewater Reuse System

The Colorado Springs Utilities 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 2021.

Sanitary Sewer Creek Crossing (SSCC) Program

Colorado Springs Utilities' Sanitary Sewer Creek Crossing (SSCC) Program implements capital projects that are explicitly targeted to protect waterways near wastewater facilities which are in danger of failing due to stormwater related events or other impacts. Specifically, the SSCC Program 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 (SSOs) on pipelines that cross minor and major drainages.

SSCC Improvements:

- Provide long term creek stabilization for crossings and longitudinal banks
- Extend the life of the individual system component, and
- Improve the overall condition of the Colorado Springs Utilities' sanitary sewer system

As of December 31, 2012, Colorado Springs Utilities had met all compliance requirements established under the CDPHE Compliance Order on Consent (COC) which commenced in 2003. Closure of the COC was requested on January 29, 2013 and granted by CDPHE on March 8, 2013. Therefore, at that point the SSCC Program was no longer "*required by other regulatory permits, agency enforcement or court orders, consent agreements, or governmental regulation*". However, since the SSCC Program work is included as part of the annual expenditure reporting associated with the 2016 Stormwater Control Program IGA with Pueblo County, the SSCC Program work is not included in this report.

Summary

During the reporting period of January 1, 2021 through December 31, 2021 costs for LCERP included in this period totaled $2,574,603. Work performed under other programs previously reported were either performed under normal operation and maintenance operations or reported under other agreement related expenditure reporting. The total Wastewater Expenditures reported since 2009 associated with the $75,000,000 commitment included in the SDS 1041 Permit Condition 7 is **$77,053,749**.

Pueblo County 1041 Permit Annual Progress Report

Actuals

Activity #		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Totals
495121	LCERP	$ 7,733,603	$ 8,408,146	$ 4,561,653	$ 2,055,737	$ 3,889,389	$ 4,242,628	$ 4,152,408	$ 1,957,137	$ 3,106,415	$ 2,232,073	$ 2,638,579	$ 2,004,614	$ 2,574,603	$ 49,556,985
495253	SSCC	$ -	$ -	$ -	$ -	$ -	$ 3,303,553	$ 3,306,495	$ -	$ -	$ -	$ -	$ 2,939,364	$ -	$ 9,549,412
495252	MHERP	$ 413,643	$ 943,909	$ 776,836	$ 755,602	$ 369,336	$ 205,348	$ 130,210	$ -	$ 7,841	$ -	$ 37,590	$ 1,105	$ -	$ 3,641,420
495236	Coll R&R	$ 776,481	$ 201,008	$ -	$ -	$ -		$ 1,152,151	$ 871,895	$ 3,191,192	$ 3,664,480	$ 3,021,310	$ 1,378,280	$ -	$ 14,256,797
	Reuse System	$ -	$ 49,135	$ -	$ -	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ 49,135
	Total	**$ 8,923,727**	**$ 9,602,198**	**$ 5,338,489**	**$ 2,811,339**	**$ 4,258,725**	**$ 7,751,529**	**$ 8,741,264**	**$ 2,829,032**	**$ 6,305,448**	**$ 5,896,553**	**$ 5,697,479**	**$ 6,323,363**	**$ 2,574,603**	**$ 77,053,749**

Appendix A

2021 LCERP ACTIVITY TABLE

CSU Location ID	Work Order #	DIAMETER (inches)	LENGTH (feet)	Assesment Description	Collection Basin Name	Date Complete
WW.134579	3831693	8	472	CIPP	SHOOKS RUN	02/04/21
WW.143456	3831695	8	425	CIPP	DOWNTOWN	01/29/21
WW.153643	3831696	8	45	CIPP	DOWNTOWN	02/08/21
WW.157760	3831697	8	193	CIPP	DOWNTOWN	02/08/21
WW.134615	3831703	8	531	CIPP	DOWNTOWN	02/09/21
WW.162331	3831720	8	247	CIPP	SHOOKS RUN	02/01/21
WW.135682	3831739	8	356	CIPP	SHOOKS RUN	01/19/21
WW.161451	3831745	8	321	CIPP	SHOOKS RUN	01/18/21
WW.159455	3831763	8	24	CIPP	SHOOKS RUN	02/01/21
WW.159875	3831757	6	485	CIPP	SHOOKS RUN	02/11/21
WW.160299	3831765	8	186	CIPP	SHOOKS RUN	01/20/21
WW.139365	3831760	8	326	CIPP	SHOOKS RUN	02/03/21
WW.145618	3831770	8	209	CIPP	SHOOKS RUN	01/20/21
WW.157821	3831746	8	236	CIPP	SHOOKS RUN	01/19/21
WW.153270	3831767	8	278	CIPP	SHOOKS RUN	01/14/21
WW.136894	3831740	8	173	CIPP	SHOOKS RUN	02/09/21
WW.141455	3831752	8	450	CIPP	SHOOKS RUN	02/02/21
WW.147720	3831771	8	351	CIPP	SHOOKS RUN	01/28/21
WW.141454	3831758	8	168	CIPP	SHOOKS RUN	02/01/21
WW.134784	3831764	8	172	CIPP	SHOOKS RUN	02/01/21
WW.145636	3831743	8	347	CIPP	SHOOKS RUN	02/01/21
WW.145635	3831750	8	367	CIPP	SHOOKS RUN	01/13/21
WW.137365	3831772	8	188	CIPP	SHOOKS RUN	01/14/21
WW.148029	3831762	8	558	CIPP	SHOOKS RUN	01/19/21
WW.137353	3831741	8	500	CIPP	SHOOKS RUN	01/18/21
WW.145637	3831766	6	595	CIPP	SHOOKS RUN	02/10/21
WW.146936	3831761	8	465	CIPP	UPPER SAND CREEK	02/02/21
WW.150935	3831768	8	200	CIPP	UPPER SAND CREEK	01/22/21
WW.150934	3831754	8	137	CIPP	UPPER SAND CREEK	01/21/21
WW.140660	3831742	8	200	CIPP	UPPER SAND CREEK	01/21/21
WW.163167	3831769	8	263	CIPP	UPPER SAND CREEK	01/21/21
WW.159089	3831748	8	138	CIPP	UPPER SAND CREEK	01/22/21
WW.145066	3667845	8	343	CIPP	LOWER COTTONWOOD CREEK	03/03/21
WW.133642	3667852	8	344	CIPP	LOWER COTTONWOOD CREEK	03/04/21
WW.133641	3667851	8	406	CIPP	LOWER COTTONWOOD CREEK	03/08/21
WW.149119	3667853	8	127	CIPP	LOWER COTTONWOOD CREEK	03/05/21
WW.137912	3667836	8	10	CIPP	LOWER COTTONWOOD CREEK	03/09/21
WW.157241	3667838	8	298	CIPP	LOWER COTTONWOOD CREEK	03/09/21
WW.163351	3667847	8	373	CIPP	LOWER COTTONWOOD CREEK	03/10/21
WW.161339	3667840	8	405	CIPP	LOWER COTTONWOOD CREEK	03/11/21
WW.149121	3667844	8	340	CIPP	LOWER COTTONWOOD CREEK	03/08/21
WW.159288	3667843	8	392	CIPP	LOWER COTTONWOOD CREEK	03/09/21
WW.163352	3667846	8	180	CIPP	LOWER COTTONWOOD CREEK	03/16/21
WW.151123	3667842	8	407	CIPP	LOWER COTTONWOOD CREEK	03/10/21
WW.133644	3667839	8	393	CIPP	LOWER COTTONWOOD CREEK	03/11/21
WW.163354	3667848	8	400	CIPP	LOWER COTTONWOOD CREEK	03/17/21
WW.137789	3667841	8	292	CIPP	LOWER COTTONWOOD CREEK	03/18/21
WW.138314	3667869	8	195	CIPP	LOWER COTTONWOOD CREEK	03/23/21
WW.148593	3667879	8	251	CIPP	LOWER COTTONWOOD CREEK	03/19/21
WW.154610	3667880	8	135	CIPP	LOWER COTTONWOOD CREEK	03/19/21
WW.136267	3667878	8	205	CIPP	LOWER COTTONWOOD CREEK	05/10/21
WW.136264	3667873	8	401	CIPP	LOWER COTTONWOOD CREEK	03/24/21
WW.146586	3667881	8	316	CIPP	LOWER COTTONWOOD CREEK	05/27/21
WW.132611	3667870	8	289	CIPP	LOWER COTTONWOOD CREEK	05/28/21
WW.162833	3667876	8	375	CIPP	LOWER COTTONWOOD CREEK	03/26/21
WW.154052	3667871	8	166	CIPP	LOWER COTTONWOOD CREEK	03/25/21

WW.133640	3667877	8	399	CIPP	LOWER COTTONWOOD CREEK	03/25/21
WW.149118	3667882	8	347	CIPP	LOWER COTTONWOOD CREEK	03/29/21
WW.144496	3667872	8	197	CIPP	LOWER COTTONWOOD CREEK	06/17/21
WW.154613	3667874	8	344	CIPP	LOWER COTTONWOOD CREEK	04/22/21
WW.135848	3667860	8	11	CIPP	LOWER COTTONWOOD CREEK	03/30/21
WW.140843	3667866	8	345	CIPP	LOWER COTTONWOOD CREEK	03/30/21
WW.161338	3667857	8	377	CIPP	LOWER COTTONWOOD CREEK	03/31/21
WW.147141	3667868	8	357	CIPP	LOWER COTTONWOOD CREEK	04/01/21
WW.140842	3667859	8	260	CIPP	LOWER COTTONWOOD CREEK	04/02/21
WW.149120	3667861	8	266	CIPP	LOWER COTTONWOOD CREEK	04/02/21
WW.142953	3667849	8	287	CIPP	LOWER COTTONWOOD CREEK	04/05/21
WW.138823	3667854	8	406	CIPP	LOWER COTTONWOOD CREEK	05/12/21
WW.138825	3667858	8	403	CIPP	LOWER COTTONWOOD CREEK	04/06/21
WW.142955	3667865	8	305	CIPP	LOWER COTTONWOOD CREEK	04/08/21
WW.155128	3667867	8	229	CIPP	LOWER COTTONWOOD CREEK	04/08/21
WW.133643	3667856	8	335	CIPP	LOWER COTTONWOOD CREEK	04/09/21
WW.136764	3667855	8	430	CIPP	LOWER COTTONWOOD CREEK	04/07/21
WW.164384	3667834	8	371	CIPP	LOWER COTTONWOOD CREEK	04/12/21
WW.136753	3667835	8	285	CIPP	LOWER COTTONWOOD CREEK	05/13/21
WW.163340	3667837	8	300	CIPP	LOWER COTTONWOOD CREEK	04/16/21
WW.133649	3667833	8	16	CIPP	LOWER COTTONWOOD CREEK	04/15/21
WW.151126	3667830	8	371	CIPP	LOWER COTTONWOOD CREEK	04/15/21
WW.159289	3667895	8	147	CIPP	LOWER COTTONWOOD CREEK	04/14/21
WW.136765	3667900	8	401	CIPP	LOWER COTTONWOOD CREEK	04/14/21
WW.136726	3667917	8	171	CIPP	LOWER COTTONWOOD CREEK	05/17/21
WW.157242	3667890	8	256	CIPP	LOWER COTTONWOOD CREEK	05/14/21
WW.153158	3667892	8	320	CIPP	LOWER COTTONWOOD CREEK	04/19/21
WW.159316	3667901	8	258	CIPP	LOWER COTTONWOOD CREEK	04/19/21
WW.147156	3667889	8	338	CIPP	LOWER COTTONWOOD CREEK	04/21/21
WW.140875	3667909	8	329	CIPP	LOWER COTTONWOOD CREEK	04/26/21
WW.140876	3667904	8	173	CIPP	LOWER COTTONWOOD CREEK	04/28/21
WW.138841	3667898	8	193	CIPP	LOWER COTTONWOOD CREEK	04/28/21
WW.196715	3667912	8	15	CIPP	LOWER COTTONWOOD CREEK	05/18/21
WW.152628	3667914	8	119	CIPP	LOWER COTTONWOOD CREEK	05/18/21
WW.154618	3667915	8	398	CIPP	LOWER COTTONWOOD CREEK	04/20/21
WW.162835	3667910	8	180	CIPP	LOWER COTTONWOOD CREEK	04/20/21
WW.132620	3667911	8	280	CIPP	LOWER COTTONWOOD CREEK	04/23/21
WW.154612	3667913	8	363	CIPP	LOWER COTTONWOOD CREEK	04/27/21
WW.136262	3667829	8	375	CIPP	LOWER COTTONWOOD CREEK	05/19/21
WW.150091	3667916	8	268	CIPP	LOWER COTTONWOOD CREEK	05/19/21
WW.142956	3667893	8	269	CIPP	LOWER COTTONWOOD CREEK	05/20/21
WW.136768	3667897	8	284	CIPP	LOWER COTTONWOOD CREEK	05/20/21
WW.163359	3667891	8	268	CIPP	LOWER COTTONWOOD CREEK	05/24/21
WW.154094	3667905	8	383	CIPP	LOWER COTTONWOOD CREEK	05/21/21
WW.159317	3667894	8	431	CIPP	LOWER COTTONWOOD CREEK	04/13/21
WW.157261	3667908	8	364	CIPP	LOWER COTTONWOOD CREEK	04/30/21
WW.140877	3667903	8	281	CIPP	LOWER COTTONWOOD CREEK	04/29/21
WW.151143	3667907	8	268	CIPP	LOWER COTTONWOOD CREEK	04/29/21
WW.140879	3667888	8	185	CIPP	LOWER COTTONWOOD CREEK	05/04/21
WW.153162	3667899	8	260	CIPP	LOWER COTTONWOOD CREEK	05/04/21
WW.156723	3667832	8	247	CIPP	LOWER COTTONWOOD CREEK	05/05/21
WW.196681	3667883	8	15	CIPP	LOWER COTTONWOOD CREEK	05/06/21
WW.162837	3667902	8	311	CIPP	LOWER COTTONWOOD CREEK	05/06/21
WW.137755	3667896	8	136	CIPP	LOWER COTTONWOOD CREEK	05/06/21
WW.196684	3667886	8	15	CIPP	LOWER COTTONWOOD CREEK	05/07/21
WW.146010	3667885	8	269	CIPP	LOWER COTTONWOOD CREEK	05/07/21
WW.136268	3667906	8	394	CIPP	LOWER COTTONWOOD CREEK	05/25/21
WW.158783	3667884	8	343	CIPP	LOWER COTTONWOOD CREEK	05/26/21
WW.137756	3667887	8	300	CIPP	LOWER COTTONWOOD CREEK	05/26/21

WW.162836	3667831	8	56	CIPP	LOWER COTTONWOOD CREEK	05/05/21
WW.150165	3694026	8	284	CIPP	PATTY JEWETT	02/22/21
WW.149587	3694063	8	358	CIPP	PATTY JEWETT	02/19/21
WW.155609	3694036	8	288	CIPP	PATTY JEWETT	02/22/21
WW.163834	3694028	8	402	CIPP	PATTY JEWETT	02/23/21
WW.141345	3694030	8	301	CIPP	PATTY JEWETT	02/23/21
WW.159787	3694032	8	144	CIPP	PATTY JEWETT	02/23/21
WW.155618	3694029	8	314	CIPP	PATTY JEWETT	02/24/21
WW.161800	3694031	8	291	CIPP	PATTY JEWETT	02/20/21
WW.143433	3694044	8	270	CIPP	PATTY JEWETT	02/24/21
WW.141348	3694033	8	361	CIPP	PATTY JEWETT	02/26/21
WW.134558	3694034	8	202	CIPP	PATTY JEWETT	03/02/21
WW.163835	3694039	8	362	CIPP	PATTY JEWETT	03/02/21
WW.143436	3694037	8	315	CIPP	PATTY JEWETT	03/03/21
WW.163836	3694035	8	328	CIPP	PATTY JEWETT	03/03/21
WW.163838	3694038	8	287	CIPP	PATTY JEWETT	03/12/21
WW.149613	3694017	8	310	CIPP	PATTY JEWETT	03/17/21
WW.145519	3694042	8	229	CIPP	PATTY JEWETT	03/27/21
WW.141350	3694016	8	274	CIPP	PATTY JEWETT	03/18/21
WW.159789	3694043	8	320	CIPP	PATTY JEWETT	03/04/21
WW.143434	3694027	8	329	CIPP	PATTY JEWETT	03/19/21
WW.163837	3694019	8	359	CIPP	PATTY JEWETT	03/26/21
WW.134560	3694021	8	357	CIPP	PATTY JEWETT	03/08/21
WW.159791	3694020	8	350	CIPP	PATTY JEWETT	03/26/21
WW.151598	3694025	8	253	CIPP	PATTY JEWETT	02/22/21
WW.134557	3694022	8	289	CIPP	PATTY JEWETT	02/23/21
WW.145518	3694018	8	386	CIPP	PATTY JEWETT	03/09/21
WW.134559	3694023	8	302	CIPP	PATTY JEWETT	03/23/21
WW.164420	3694050	8	421	CIPP	PATTY JEWETT	03/10/21
WW.143437	3694056	8	400	CIPP	PATTY JEWETT	04/01/21
WW.134562	3694052	8	399	CIPP	PATTY JEWETT	03/31/21
WW.134563	3694055	8	405	CIPP	PATTY JEWETT	04/02/21
WW.143438	3694014	8	255	CIPP	PATTY JEWETT	04/03/21
WW.155622	3694015	8	73	CIPP	PATTY JEWETT	04/03/21
WW.141352	3694057	8	401	CIPP	PATTY JEWETT	04/05/21
WW.143439	3694013	8	204	CIPP	PATTY JEWETT	04/06/21
WW.146075	3694012	8	311	CIPP	PATTY JEWETT	04/06/21
WW.153636	3694051	8	392	CIPP	PATTY JEWETT	04/04/21
WW.139864	3694053	8	400	CIPP	PATTY JEWETT	03/11/21
WW.143473	3694060	8	355	CIPP	PATTY JEWETT	03/30/21
WW.161827	3694061	8	290	CIPP	PATTY JEWETT	03/05/21
WW.141380	3694059	8	288	CIPP	PATTY JEWETT	03/04/21
WW.161803	3694041	8	431	CIPP	PATTY JEWETT	03/24/21
WW.134618	3694049	8	324	CIPP	PATTY JEWETT	02/26/21
WW.157751	3694048	8	407	CIPP	PATTY JEWETT	03/25/21
WW.141951	3694046	8	301	CIPP	PATTY JEWETT	03/26/21
WW.153604	3694045	8	291	CIPP	PATTY JEWETT	02/24/21
WW.143462	3694058	8	197	CIPP	PATTY JEWETT	03/03/21
WW.141324	3692458	8	301	CIPP	PATTY JEWETT	06/26/21
WW.149599	3692452	8	131	CIPP	PATTY JEWETT	03/27/21
WW.141325	3692457	8	215	CIPP	PATTY JEWETT	06/27/21
WW.149600	3692446	8	306	CIPP	PATTY JEWETT	03/08/21
WW.187519	3692449	8	325	CIPP	PATTY JEWETT	03/09/21
WW.187510	3692455	8	325	CIPP	PATTY JEWETT	03/20/21
WW.157712	3692448	8	345	CIPP	PATTY JEWETT	03/10/21
WW.187518	3692454	8	331	CIPP	PATTY JEWETT	03/10/21
WW.157713	3692451	8	199	CIPP	PATTY JEWETT	03/18/21
WW.151585	3692456	8	335	CIPP	PATTY JEWETT	03/18/21
WW.134537	3692447	8	352	CIPP	PATTY JEWETT	03/24/21

WW.153591	3692453	8	336	CIPP	PATTY JEWETT	03/24/21
WW.148124	3692463	8	336	CIPP	PATTY JEWETT	03/17/21
WW.156196	3692469	8	151	CIPP	PATTY JEWETT	05/20/21
WW.161816	3692466	8	331	CIPP	PATTY JEWETT	03/04/21
WW.163843	3692467	8	170	CIPP	PATTY JEWETT	05/21/21
WW.153595	3692461	8	374	CIPP	PATTY JEWETT	03/05/21
WW.134539	3692450	8	231	CIPP	PATTY JEWETT	03/23/21
WW.155638	3692468	8	303	CIPP	PATTY JEWETT	03/16/21
WW.150166	3692465	8	345	CIPP	PATTY JEWETT	03/16/21
WW.143460	3692464	8	362	CIPP	PATTY JEWETT	03/11/21
WW.146074	3692462	8	381	CIPP	PATTY JEWETT	03/11/21
WW.157715	3692460	8	295	CIPP	PATTY JEWETT	03/19/21
WW.157714	3692459	8	169	CIPP	PATTY JEWETT	03/19/21
WW.145509	3692440	8	40	CIPP	PATTY JEWETT	05/25/21
WW.145539	3692424	8	296	CIPP	PATTY JEWETT	06/15/21
WW.163842	3692425	8	108	CIPP	PATTY JEWETT	03/12/21
WW.160329	3692423	8	260	CIPP	PATTY JEWETT	05/12/21
WW.134594	3692428	8	443	CIPP	PATTY JEWETT	03/25/21
WW.149636	3692429	8	179	CIPP	PATTY JEWETT	05/11/21
WW.153622	3692426	8	426	CIPP	PATTY JEWETT	03/26/21
WW.143424	3692443	8	403	CIPP	PATTY JEWETT	06/22/21
WW.161791	3692437	8	287	CIPP	PATTY JEWETT	03/27/21
WW.159781	3692435	8	261	CIPP	PATTY JEWETT	06/03/21
WW.160327	3692442	8	333	CIPP	PATTY JEWETT	05/26/21
WW.164419	3692434	8	276	CIPP	PATTY JEWETT	05/25/21
WW.163806	3692439	8	309	CIPP	PATTY JEWETT	08/18/21
WW.145481	3692441	8	400	CIPP	PATTY JEWETT	08/05/21
WW.145483	3692438	8	239	CIPP	PATTY JEWETT	08/19/21
WW.157688	3692444	8	414	CIPP	PATTY JEWETT	03/29/21
WW.134475	3692431	8	203	CIPP	PATTY JEWETT	08/17/21
WW.149577	3692433	8	373	CIPP	PATTY JEWETT	08/10/21
WW.134483	3692432	8	244	CIPP	PATTY JEWETT	06/02/21
WW.157687	3692430	8	367	CIPP	PATTY JEWETT	08/03/21
WW.163817	3692445	8	232	CIPP	PATTY JEWETT	08/18/21
Totals	**208**		**60,805**			

ATTACHMENT 8

Summary of Storage, Diversion, Delivery of Water in Pueblo County related to the SDS Project

Data will be reported in 12-month increments, from October of the previous year to September of the current year.

ATTACHMENT 8

Summary of Storage, Diversion, Delivery of Water in Pueblo County

Storage & Diversion

Colorado Springs Utilities

	Pueblo Reservoir EOM Storage (acre-feet)		Total Diversion	Total Delivery
	Long Term Excess Capacity Acct	*Fry-Ark Carry Over Account*	acre-feet	acre-feet
Oct 2020	16,309.91	48,922.54	0.00	360.48
Nov	17,954.88	48,756.39	0.00	385.17
Dec	18,909.89	48,663.85	0.00	405.88
Jan 2021	18,753.19	48,577.69	0.00	390.57
Feb	18,185.87	48,483.32	0.00	362.77
Mar	18,390.28	48,303.45	0.00	405.09
Apr	20,335.92	48,000.78	0.00	387.04
May	13,198.59	51,978.91	0.00	396.40
Jun	15,482.89	51,414.88	0.00	290.44
Jul	16,342.33	50,900.55	0.00	307.03
Aug	16,275.94	50,290.63	0.00	316.59
Sep	15,956.92	49,811.75	0.00	340.47
Annual Total:				4347.94

City of Fountain

	Pueblo EOM Storage (acre-feet)		Total Diversion	Total Delivery
	Fry-Ark Carryover Account	*SDS Long-Term Excess Capacity Account*	acre-feet	acre-feet
Oct 2020	6,092.80	1,526.16	0.00	189.69
Nov	5,943.71	1,580.95	0.00	123.97
Dec	5,805.15	1,597.95	0.00	123.97
Jan 2021	5,668.31	1,595.17	0.00	122.77
Feb	5,533.14	1,592.09	0.00	119.22
Mar	5,415.74	1,553.48	0.00	131.03
Apr	5,381.81	1,775.28	0.00	16.02
May	5,946.88	1,832.69	0.00	44.40
Jun	5,882.36	1,773.75	0.00	135.95
Jul	5,823.51	1,775.88	0.00	124.58
Aug	5,753.67	1,664.57	0.00	182.35
Sep	5,698.85	1,508.47	0.00	140.87
Annual Total:			0.00	1454.83

ATTACHMENT 8

Pueblo West Metropolitan District

	Pueblo Reservoir EOM Storage (acre-feet)	Total Diversion	Total Delivery
	Pueblo West	acre-feet	acre-feet
Oct 2020	6,761.95	0.01	0.01
Nov	6,467.57	0.00	0.00
Dec	6,148.28	0.00	0.00
Jan 2021	5,877.39	0.00	0.00
Feb	6,992.62	0.00	0.00
Mar	6,711.05	0.00	0.00
Apr	7,665.69	0.00	0.00
May	8,167.00	0.00	0.00
Jun	7,454.86	8.71	8.71
Jul	7,834.73	10.44	10.44
Aug	8,128.91	0.00	0.00
Sep	7,369.67	0.00	0.00

Annual Total: 19.16 19.16

Notes: Only used North Outlet Works October, June and July; remainder of deliveries out of South Outlet Works.

Security Water District

	Pueblo EOM Storage (acre-feet)		Total Diversion	Total Delivery
	Fry-Ark Carryover Account	*SDS Long-Term Excess Capacity Account*	acre-feet	acre-feet
Oct 2020	4,664.88	598.16	0.00	114.32
Nov	4,531.28	693.57	0.00	70.15
Dec	4,403.33	879.71	0.00	63.17
Jan 2021	4,267.89	878.17	0.00	68.34
Feb	4,154.81	876.43	0.00	55.85
Mar	4,050.01	957.58	0.00	57.76
Apr	4,024.63	1,000.50	0.00	54.57
May	4,419.20	993.45	0.00	75.89
Jun	4,371.26	925.48	0.00	160.71
Jul	4,327.53	860.94	0.00	161.03
Aug	4,275.62	794.74	0.00	153.32
Sep	4,198.20	728.04	0.00	107.64

Annual Total: 0.00 1142.75

ATTACHMENT 9

Summary of Participants' SDS Return Flows to Fountain Creek Including Storage and Releases of Such Return Flows

Data will be reported in 12-month increments, from October of the previous year to September of the current year.

ATTACHMENT 9

Summary of Participants' Return Flows to Fountain Creek
Including Storage and Releases of Such Return Flows
Return Flow Summary

Colorado Springs Utilities

SDS Return Flow Summary

	Total SDS RFs to Fountain Creek	Avg Flow	Max Daily Flow	RFs to Fountain Creek Storage	RFs released from Ftn Ck Storage
	acre-feet	cfs	cfs	acre-feet	acre-feet
Oct 2020	152.96	2.49	4.97	0.00	0.00
Nov	230.58	3.88	5.83	0.00	0.00
Dec	284.13	4.62	8.91	0.00	0.00
Jan 2021	301.25	4.90	11.78	0.00	0.00
Feb	271.34	4.89	6.92	0.00	0.00
Mar	285.98	4.65	7.93	0.00	0.00
Apr	224.09	3.77	8.46	0.00	0.00
May	96.19	1.56	2.17	0.00	0.00
Jun	67.72	1.14	2.21	0.00	0.00
Jul	76.05	1.24	2.30	0.00	0.00
Aug	78.43	1.28	1.74	0.00	0.00
Sep	101.03	1.70	3.79	0.00	0.00
	2169.76			0.00	0.00

City of Fountain

	Total SDS RFs to Fountain Creek	Avg Flow	Max Daily Flow	RFs to Ftn Ck Storage	RFs released from Ftn Ck Storage
	acre-feet	cfs	cfs	acre-feet	acre-feet
Oct 2020	18.37	0.30	1.13	0.00	0.00
Nov	0.00	0.00	0.00	0.00	0.00
Dec	0.00	0.00	0.00	0.00	0.00
Jan 2021	0.00	0.00	0.00	0.00	0.00
Feb	0.00	0.00	0.00	0.00	0.00
Mar	28.26	0.46	2.03	0.00	0.00
Apr	12.85	0.22	1.46	0.00	0.00
May	33.43	0.54	1.55	0.00	0.00
Jun	97.68	1.64	2.63	0.00	0.00
Jul	71.38	1.16	1.75	0.00	0.00
Aug	103.67	1.69	2.17	0.00	0.00
Sep	68.81	1.16	1.54	0.00	0.00
	434.45			0.00	0.00

ATTACHMENT 9

Pueblo West Metropolitan District

Return Flow Summary

Pueblo West does not discharge return flows to Fountain Creek.

	Total SDS RFs to Fountain Creek	Avg Flow	Max Daily Flow	RFs to Ftn Ck Storage	RFs released from Ftn Ck Storage
	acre-feet	cfs	cfs	acre-feet	acre-feet
Oct 2020	n/a	0.00	0.00	0.00	0.00
Nov		0.00	0.00	0.00	0.00
Dec		0.00	0.00	0.00	0.00
Jan 2021		0.00	0.00	0.00	0.00
Feb		0.00	0.00	0.00	0.00
Mar		0.00	0.00	0.00	0.00
Apr		0.00	0.00	0.00	0.00
May		0.00	0.00	0.00	0.00
Jun		0.00	0.00	0.00	0.00
Jul		0.00	0.00	0.00	0.00
Aug		0.00	0.00	0.00	0.00
Sep		0.00	0.00	0.00	0.00
	0.00			0.00	0.00

Security Water District

	Total SDS RFs to Fountain Creek	Avg Flow	Max Daily Flow	RFs to Ftn Ck Storage	RFs released from Ftn Ck Storage
	acre-feet	cfs	cfs	acre-feet	acre-feet
Oct 2020	60.52	0.98	1.00	0.00	0.00
Nov	63.83	1.07	1.09	0.00	0.00
Dec	59.43	0.97	0.98	0.00	0.00
Jan 2021	65.64	1.07	1.08	0.00	0.00
Feb	57.98	1.04	1.07	0.00	0.00
Mar	58.45	0.95	0.98	0.00	0.00
Apr	38.23	0.64	0.67	0.00	0.00
May	41.85	0.68	0.73	0.00	0.00
Jun	62.84	1.06	1.09	0.00	0.00
Jul	54.34	0.88	1.07	0.00	0.00
Aug	47.26	0.77	1.02	0.00	0.00
Sep	36.09	0.61	0.74	0.00	0.00
	646.46			0.00	0.00

ATTACHMENT 10

Summaries of SDS Exchanges by Participants between Pueblo Reservoir and the Fountain Creek Confluence

Data will be reported in 12-month increments, from October of the previous year to September of the current year.

ATTACHMENT 10

Summaries of Exchanges by Participants between Pueblo Reservoir and the Fountain Creek Confluence

Colorado Springs Utilities

SDS Exchange Summary

	Total Exchange	Avg Flow
	acre-feet	cfs
Oct 2020	59.28	0.96
Nov	273.36	4.59
Dec	280.38	4.56
Jan 2021	312.45	5.08
Feb	284.40	5.12
Mar	301.00	4.90
Apr	217.78	3.66
May	104.56	1.70
Jun	81.29	1.37
Jul	75.99	1.24
Aug	63.59	1.03
Sep	49.32	0.83
	2103.42	

City of Fountain

SDS Exchange Summary

	Total Exchange	Avg Flow
	acre-feet	cfs
Oct 2020	0.00	0.00
Nov	0.00	0.00
Dec	0.00	0.00
Jan 2021	0.00	0.00
Feb	0.00	0.00
Mar	0.00	0.00
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
	0.00	

ATTACHMENT 10

Pueblo West Metropolitan District

SDS Exchange Summary

	Total Exchange	Avg Flow
	acre-feet	cfs
Oct 2020	0.00	0.00
Nov	0.00	0.00
Dec	0.00	0.00
Jan 2021	0.00	0.00
Feb	0.00	0.00
Mar	0.00	0.00
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

0.00

Security Water District

SDS Exchange Summary

	Total Exchange	Avg Flow
	acre-feet	cfs
Oct 2020	0.00	0.00
Nov	0.00	0.00
Dec	0.00	0.00
Jan 2021	0.00	0.00
Feb	0.00	0.00
Mar	0.00	0.00
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

0.00

ATTACHMENT 11

Pueblo Flow Management Program

Data will be reported in 12-month increments, from October of the previous year to September of the current year.

ATTACHMENT 11

Pueblo Flow Management Program

Southern Delivery System
1041 Permit Reporting
Water Year 2021

Entity: **Colorado Springs Utilities**

Pueblo Flow Management Program Summary

			Amount	Rate	*Run to Colo Canal*	*86CW11 7 aug*	*Colo Canal aug*	*Leased*
Date Curtailed	Start Time	End Time	acre-feet	cfs	acre-feet	acre-feet	acre-feet	acre-feet
October 1, 2020	0:00	23:59	65.83	33.19	65.83	0.00	0.00	0.00
October 2, 2020	0:00	23:59	64.71	32.63	64.71	0.00	0.00	0.00
October 3, 2020	0:00	23:59	66.58	33.57	66.58	0.00	0.00	0.00
October 4, 2020	0:00	23:59	68.30	34.43	68.30	0.00	0.00	0.00
October 5, 2020	0:00	23:59	69.92	35.25	69.42	0.50	0.00	0.00
October 6, 2020	0:00	23:59	62.88	31.70	62.88	0.00	0.00	0.00
October 7, 2020	0:00	23:59	62.46	31.49	62.46	0.00	0.00	0.00
October 8, 2020	0:00	23:59	64.14	32.34	64.14	0.00	0.00	0.00
October 9, 2020	0:00	23:59	67.88	34.22	67.88	0.00	0.00	0.00
October 10, 2020	0:00	23:59	66.74	33.65	66.74	0.00	0.00	0.00
October 11, 2020	0:00	23:59	87.56	44.15	69.42	8.88	9.26	0.00
October 12, 2020	0:00	23:59	95.29	48.04	69.42	0.00	25.87	0.00
October 13, 2020	0:00	23:59	86.47	43.59	76.70	0.00	9.77	0.00
October 14, 2020	0:00	23:59	73.31	36.96	73.31	0.00	0.00	0.00
October 15, 2020	0:00	23:59	72.79	36.70	72.79	0.00	0.00	0.00
October 16, 2020	0:00	23:59	82.28	41.48	82.28	0.00	0.00	0.00
October 17, 2020	0:00	23:59	86.49	43.60	86.49	0.00	0.00	0.00
October 18, 2020	0:00	23:59	88.78	44.76	88.78	0.00	0.00	0.00
October 19, 2020	0:00	23:59	101.39	51.12	91.24	0.00	10.15	0.00
October 20, 2020	0:00	23:59	101.79	51.32	91.24	0.00	10.55	0.00
October 21, 2020	0:00	23:59	98.98	49.90	91.24	0.00	7.74	0.00
October 22, 2020	0:00	23:59	97.36	49.08	91.24	0.00	6.12	0.00
October 23, 2020	0:00	23:59	95.95	48.37	91.24	0.00	4.71	0.00
October 24, 2020	0:00	23:59	95.29	48.04	91.24	0.00	4.05	0.00
October 25, 2020	0:00	23:59	96.13	48.47	91.24	0.00	4.89	0.00
October 26, 2020	0:00	23:59	51.57	26.00	51.57	0.00	0.00	0.00
October 27, 2020	0:00	08:00	10.58	15.99	10.58	0.00	0.00	0.00
November 2, 2020	0:00	19:00	31.82	35.00	0.00	0.00	31.82	0.00
December 14, 2020	0:00	23:59	13.37	6.74	0.00	13.37	0.00	0.00
March 19, 2021	7:00	23:59	73.92	52.61	70.25	3.67	0.00	0.00
March 20, 2021	0:00	23:59	103.24	52.05	99.18	4.07	0.00	0.00
March 21, 2021	0:00	17:00	73.46	52.29	70.25	3.22	0.00	0.00
March 26, 2021	7:00	23:59	35.59	25.33	35.59	0.00	0.00	0.00
March 27, 2021	0:00	23:59	48.05	24.22	48.05	0.00	0.00	0.00

ATTACHMENT 11

Entity: **Colorado Springs Utilities**

Pueblo Flow Management Program Summary

			Amount	Rate	*Run to Colo Canal*	*86CW11 7 aug*	*Colo Canal aug*	*Leased*
March 28, 2021	0:00	23:59	46.05	23.22	46.05	0.00	0.00	0.00
March 29, 2021	0:00	19:00	35.58	22.66	35.58	0.00	0.00	0.00
April 2, 2021	16:00	23:59	31.28	47.31	31.28	0.00	0.00	0.00
April 3, 2021	0:00	23:59	90.51	45.63	90.51	0.00	0.00	0.00
April 4, 2021	0:00	23:59	92.44	46.61	92.44	0.00	0.00	0.00
April 5, 2021	0:00	19:00	75.50	48.08	75.50	0.00	0.00	0.00
April 9, 2021	7:00	23:59	50.87	36.21	50.87	0.00	0.00	0.00
April 10, 2021	0:00	23:59	66.49	33.52	66.49	0.00	0.00	0.00
April 11, 2021	0:00	23:59	59.44	29.97	59.44	0.00	0.00	0.00
April 12, 2021	0:00	23:59	63.27	31.90	63.27	0.00	0.00	0.00
April 13, 2021	0:00	23:59	76.47	38.55	69.42	0.00	7.04	0.00
April 14, 2021	0:00	23:59	90.09	45.42	69.42	0.00	20.66	0.00
April 15, 2021	0:00	23:59	97.20	49.00	69.42	0.00	27.77	0.00
April 16, 2021	0:00	23:59	101.54	51.19	69.42	0.00	32.12	0.00
April 17, 2021	0:00	23:59	96.88	48.84	69.42	0.00	27.46	0.00
April 18, 2021	0:00	23:59	85.16	42.94	69.42	0.00	15.74	0.00
April 19, 2021	0:00	19:00	59.42	37.84	54.96	0.00	4.46	0.00
April 23, 2021	7:00	23:59	57.35	40.82	57.35	0.00	0.00	0.00
April 24, 2021	0:00	23:59	82.07	41.38	82.07	0.00	0.00	0.00
April 25, 2021	0:00	23:59	82.66	41.68	82.66	0.00	0.00	0.00
April 26, 2021	0:00	19:00	69.82	44.47	69.82	0.00	0.00	0.00
April 28, 2021	8:00	23:59	54.21	42.28	52.52	0.00	1.69	0.00
April 29, 2021	0:00	23:59	84.07	42.39	84.07	0.00	0.00	0.00
April 30, 2021	0:00	23:59	83.55	42.12	83.55	0.00	0.00	0.00
May 1, 2021	0:00	23:59	90.00	45.37	89.26	0.00	0.74	0.00
May 2, 2021	0:00	23:59	87.58	44.15	87.58	0.00	0.00	0.00
May 3, 2021	0:00	19:00	83.93	53.45	70.66	0.00	13.27	0.00
May 7, 2021	7:00	23:59	60.48	43.04	60.48	0.00	0.00	0.00
May 8, 2021	0:00	23:59	79.19	39.93	79.19	0.00	0.00	0.00
May 9, 2021	0:00	23:59	76.68	38.66	76.68	0.00	0.00	0.00
May 10, 2021	0:00	19:00	64.01	40.76	64.01	0.00	0.00	0.00
May 17, 2021	0:00	19:00	37.72	24.02	31.41	0.00	6.31	0.00
August 27, 2021	7:00	23:59	37.79	26.90	0.00	37.79	0.00	0.00
August 28, 2021	0:00	23:59	67.11	33.83	0.00	67.11	0.00	0.00
August 29, 2021	0:00	23:59	68.51	34.54	0.00	68.51	0.00	0.00
August 30, 2021	0:00	10:30	28.14	32.43	0.00	28.14	0.00	0.00
September 1, 2021	7:00	23:59	33.84	27.30	0.00	33.84	0.00	0.00
September 2, 2021	0:00	23:59	53.19	26.82	0.00	53.19	0.00	0.00
September 3, 2021	0:00	23:59	99.10	49.96	0.00	99.10	0.00	0.00
September 4, 2021	0:00	08:00	34.34	51.94	0.00	34.34	0.00	0.00

ATTACHMENT 11

Entity: **Colorado Springs Utilities**

Pueblo Flow Management Program Summary

			Amount	Rate	*Run to Colo Canal*	*86CW11 7 aug*	*Colo Canal aug*	*Leased*
September 9, 2021	0:00	23:59	68.26	34.42	0.00	0.00	52.82	15.44
September 10, 2021	0:00	23:59	58.17	29.33	0.00	0.00	52.82	5.35
September 11, 2021	0:00	23:59	51.32	25.87	0.00	0.00	51.32	0.00
September 12, 2021	0:00	23:59	49.69	25.05	0.00	0.00	49.69	0.00
September 13, 2021	0:00	23:59	51.02	25.72	0.00	0.00	51.02	0.00
September 14, 2021	0:00	23:59	47.66	24.03	0.00	0.00	47.66	0.00
September 15, 2021	0:00	23:59	45.37	22.87	0.00	0.00	45.37	0.00
September 16, 2021	0:00	9:00	19.76	26.56	0.00	0.00	19.76	0.00
September 21, 2021	9:00	23:59	41.52	33.49	41.52	0.00	0.00	0.00
September 22, 2021	0:00	23:59	67.87	34.22	67.87	0.00	0.00	0.00
September 23, 2021	0:00	23:59	60.03	30.26	60.03	0.00	0.00	0.00
September 24, 2021	0:00	23:59	60.45	30.48	60.45	0.00	0.00	0.00
September 25, 2021	0:00	23:59	62.11	31.31	62.11	0.00	0.00	0.00
September 26, 2021	0:00	23:59	58.36	29.43	58.36	0.00	0.00	0.00
September 27, 2021	0:00	23:59	58.24	29.36	58.24	0.00	0.00	0.00
September 28, 2021	0:00	23:59	62.27	31.40	62.27	0.00	0.00	0.00
September 29, 2021	0:00	23:59	62.10	31.31	62.10	0.00	0.00	0.00
September 30, 2021	0:00	23:59	74.32	37.47	69.42	0.00	0.00	4.90

Low Flow Program Summary (Colorado Springs and BWWP only)

			Amount	Rate	*Use 1*	*Use 2*	*Use 3*
Date	Start Time	End Time	acre-feet	cfs	acre-feet	acre-feet	acre-feet
no releases in 2021							

ATTACHMENT 11

Entity: **City of Fountain**

Pueblo Flow Management Program Summary

			Amount	Rate	*Use 1*	*Use 2*	*Use 3*
Date Curtailed	Start Time	End Time	acre-feet	cfs	acre-feet	acre-feet	acre-feet
n/a							

Entity: **Pueblo West Metropolitan District**

Pueblo Flow Management Program Summary

			Amount	Rate	Spill	*Use 2*	*Use 3*
Date Curtailed	Start Time	End Time	acre-feet	cfs	acre-feet	acre-feet	acre-feet
n/a							

Entity: **Security Water District**

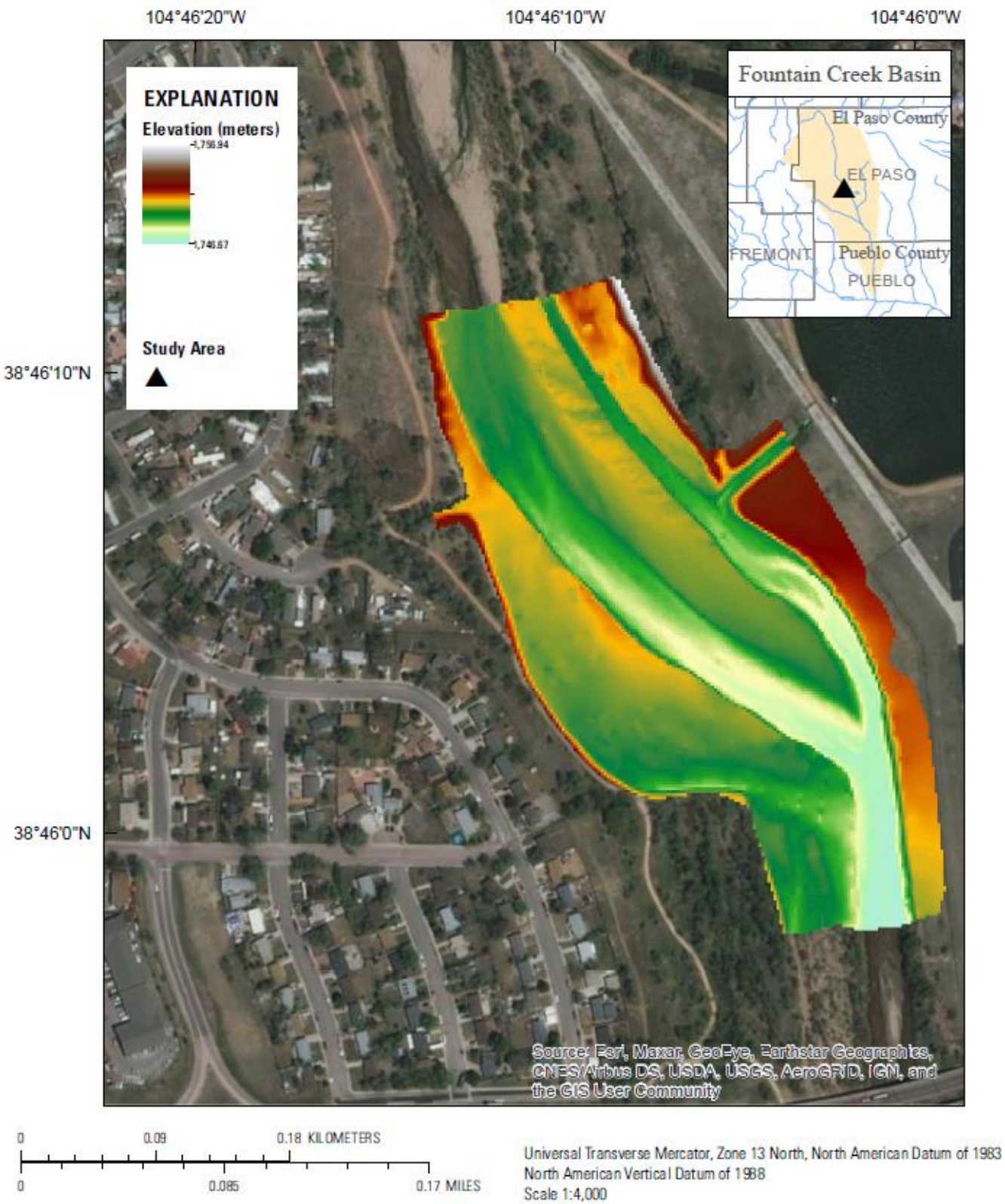
Pueblo Flow Management Program Summary

			Amount	Rate	*Use 1*	*Use 2*	*Use 3*
Date Curtailed	Start Time	End Time	acre-feet	cfs	acre-feet	acre-feet	acre-feet
n/a							

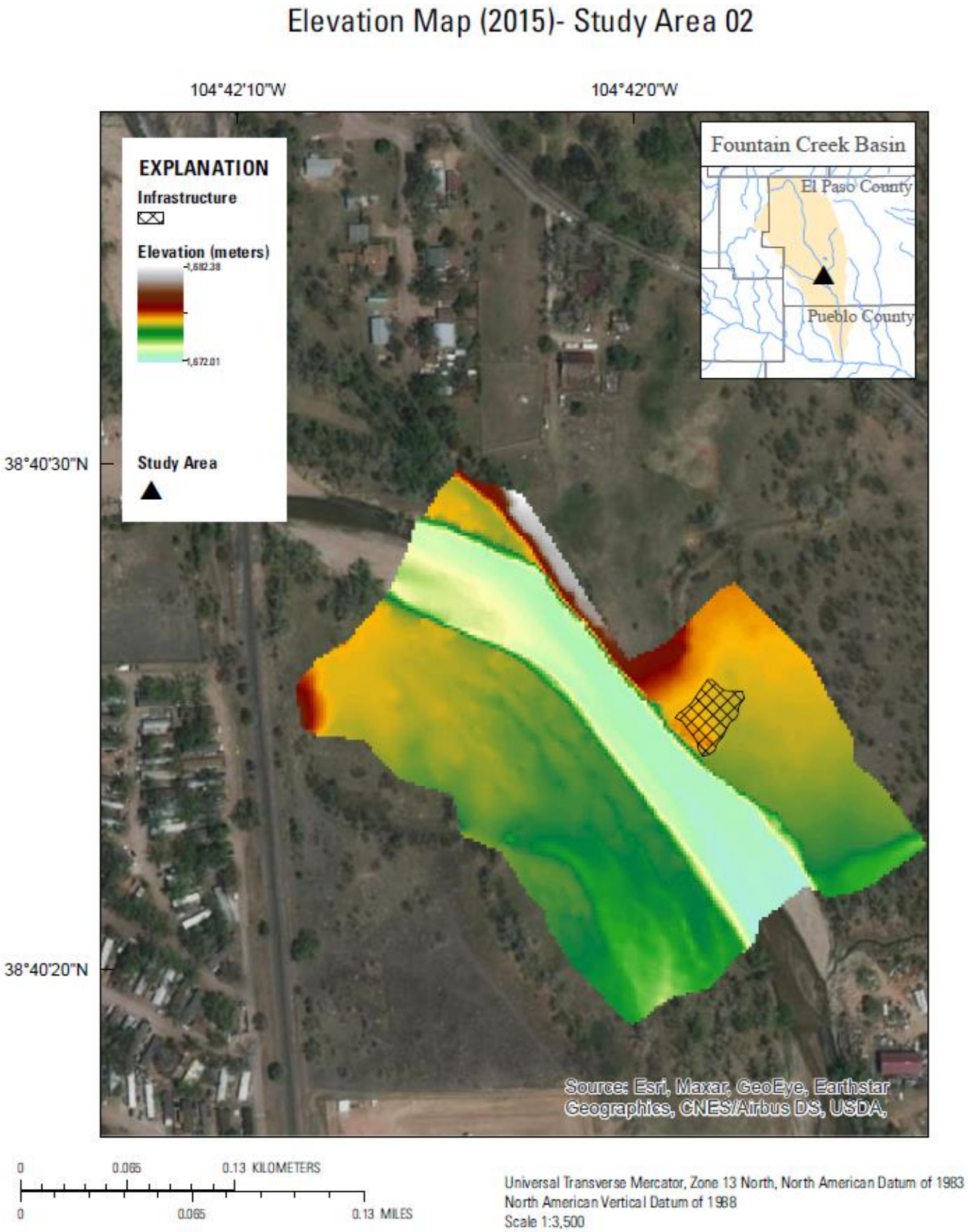
ATTACHMENT 12

Geomorphology Monitoring

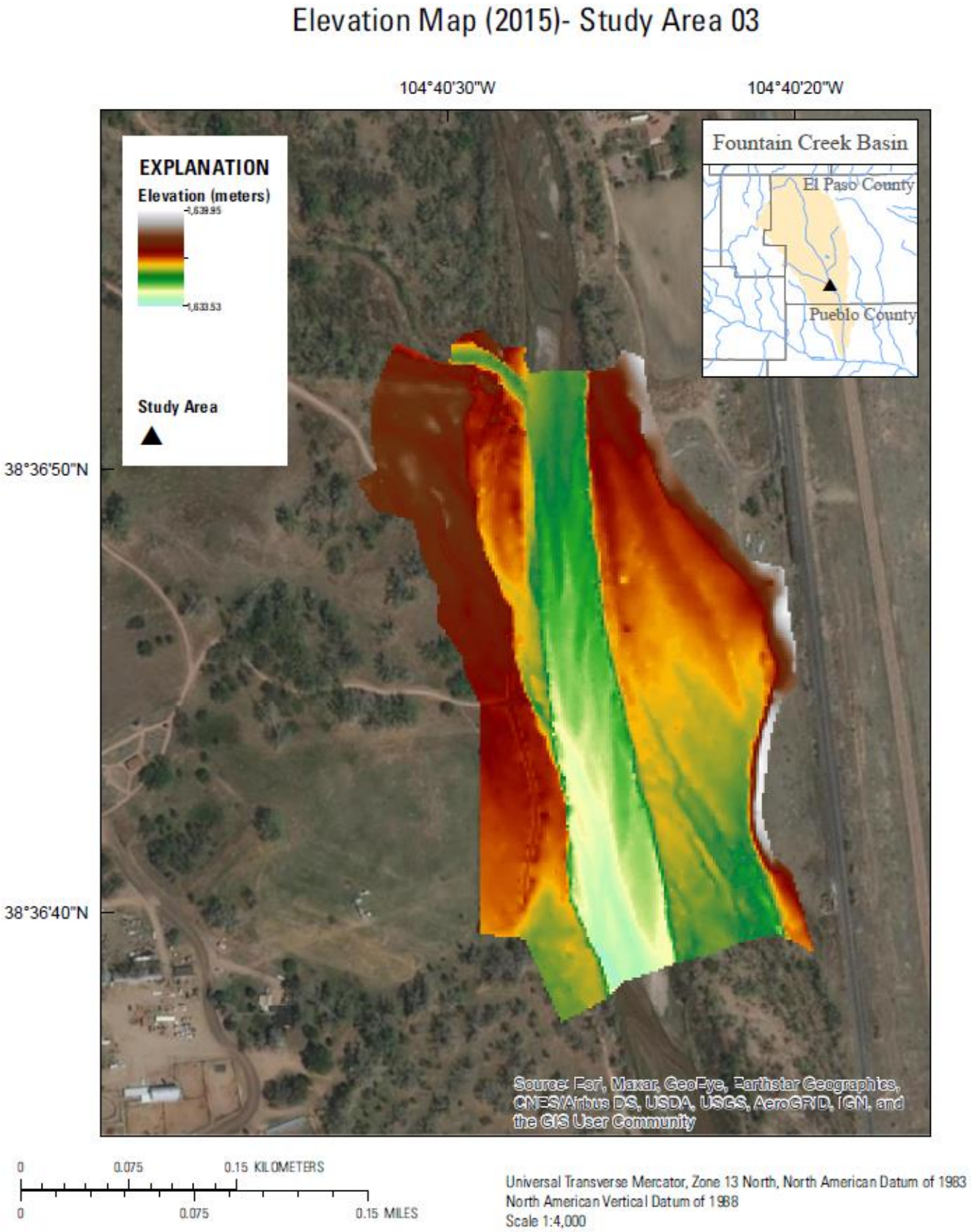
Geomorphic monitoring data are collected under an existing program led by the USGS in partnership with Colorado Springs Utilities and the City of Colorado Springs Engineering Department. Ten cross sections established at designated points along Fountain Creek are monitored for degradation, aggradation, and other changes to the geomorphic surface. Each cross section is surveyed once per year during low stream flow; preferably in the winter when leaves and other organic material on the ground is at a minimum. Survey data from 2015 are provided as pre-SDS operations baseline conditions along with survey data from the reporting period (2021) for comparative purposes. These data present topographic survey data, Light Detection and Ranging (LiDAR) survey data, and elevation rasters, collected or generated during 2021 as part of that monitoring effort. Topographic survey points were collected using real-time kinematic Global Navigation Satellite Systems (RTK-GNSS). These point data, along with LiDAR point clouds, were used to generate digital elevation maps (2021). These survey data and maps provide an annual assessment of the geomorphic changes at each study area.



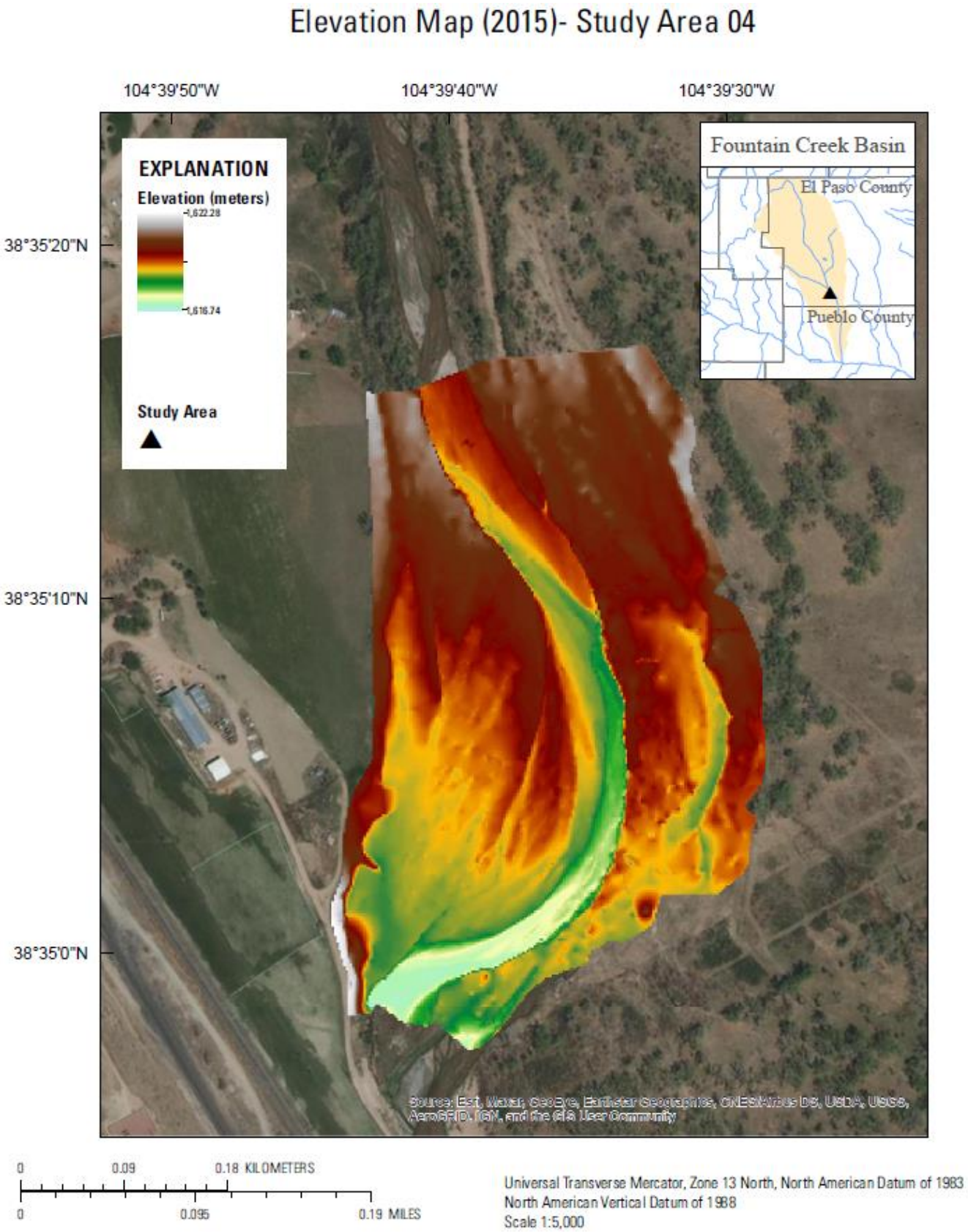
Elevation map of Fountain Creek study area 01 with an aerial background image, 2015.



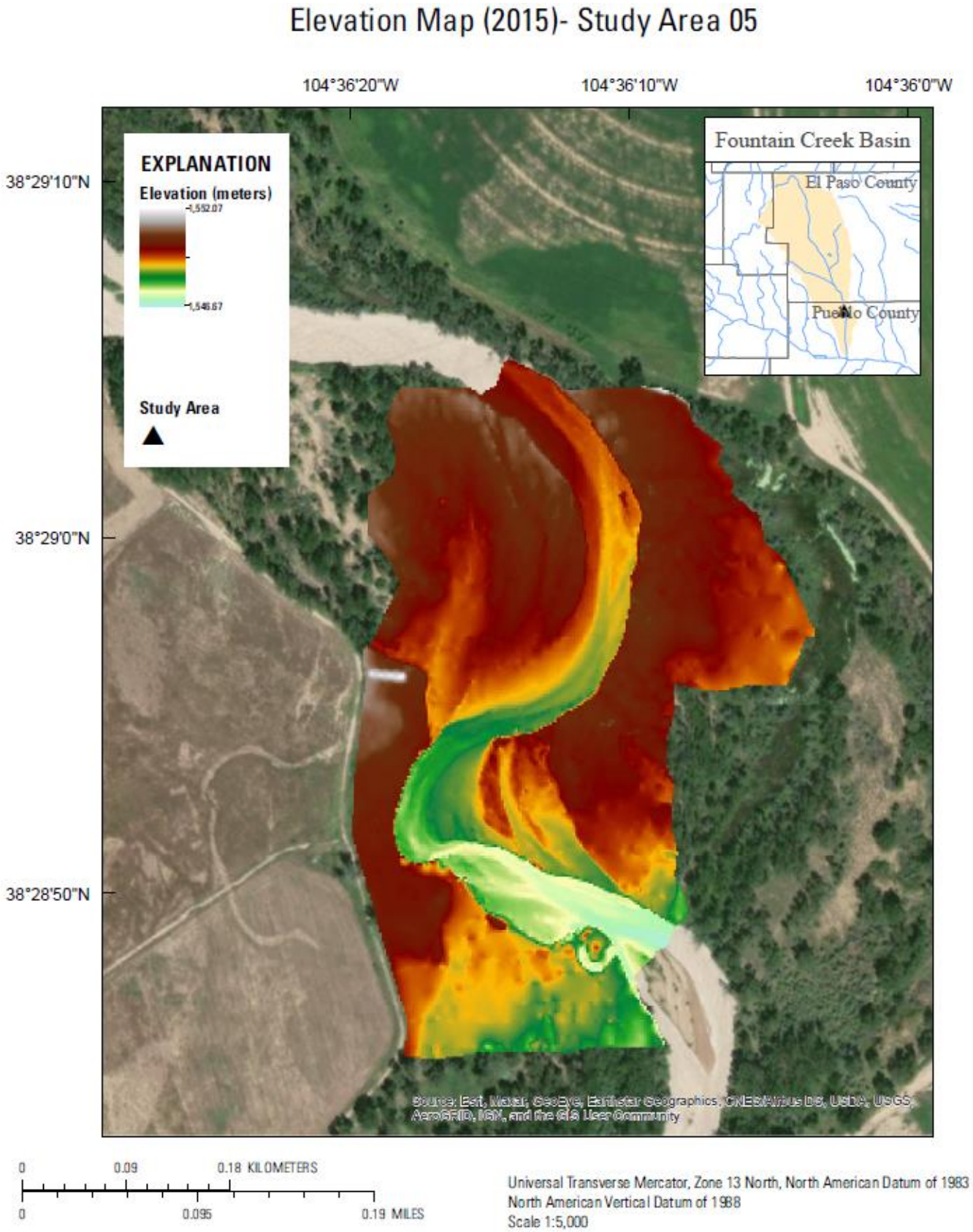
Elevation map of Fountain Creek study area 02 with an aerial background image, 2015.



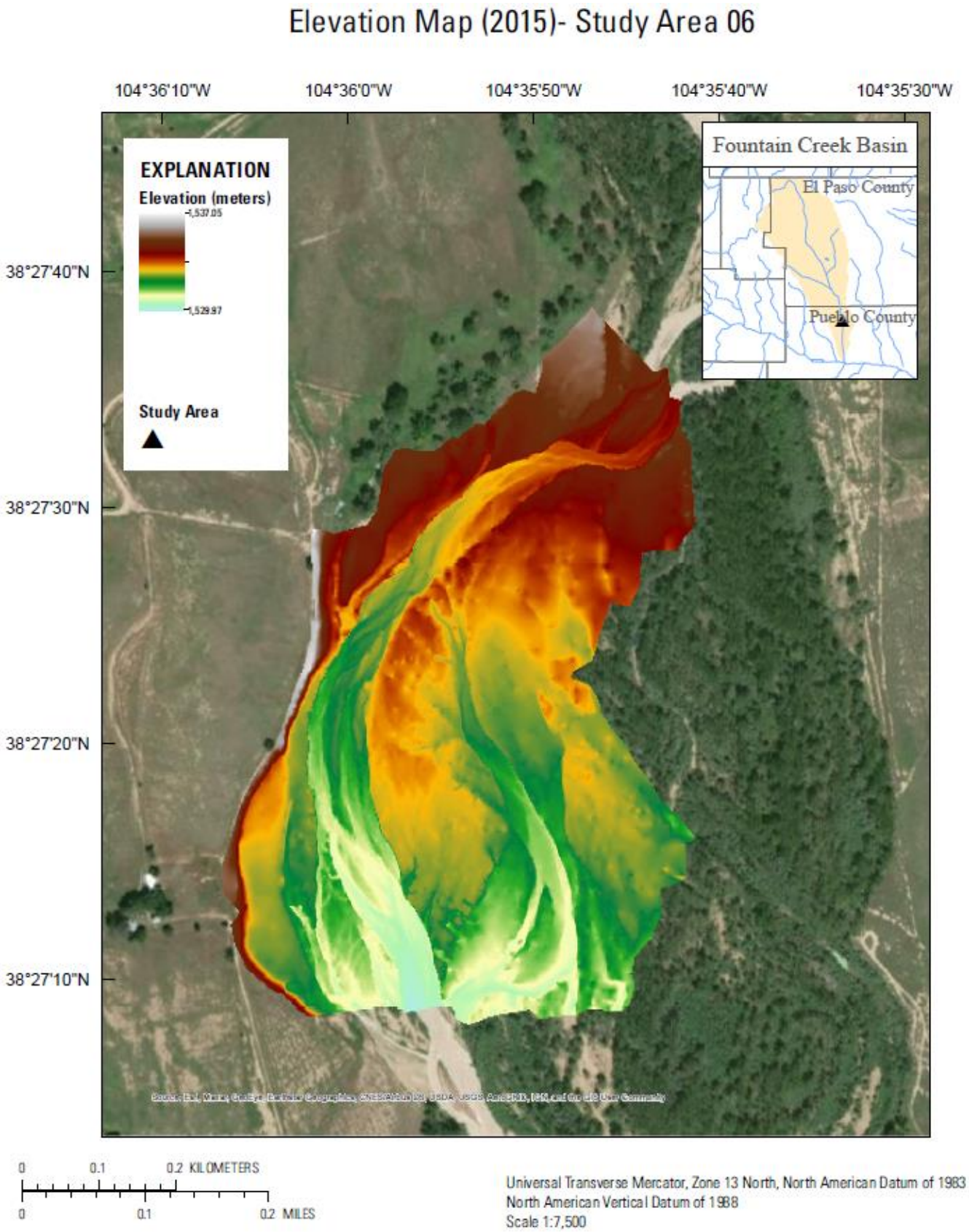
Elevation map of Fountain Creek study area 03 with an aerial background image, 2015.



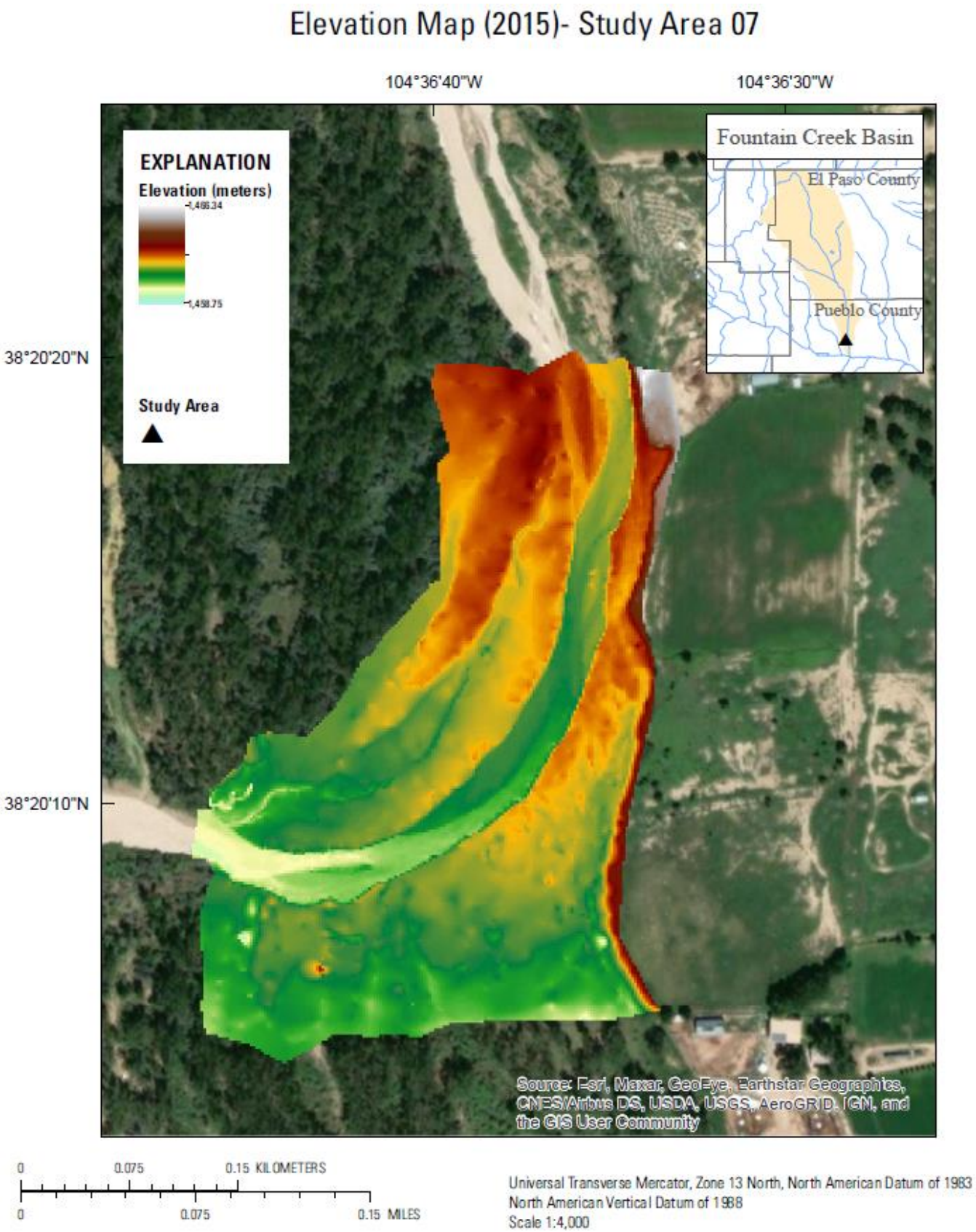
Elevation map of Fountain Creek study area 04 with an aerial background image, 2015.



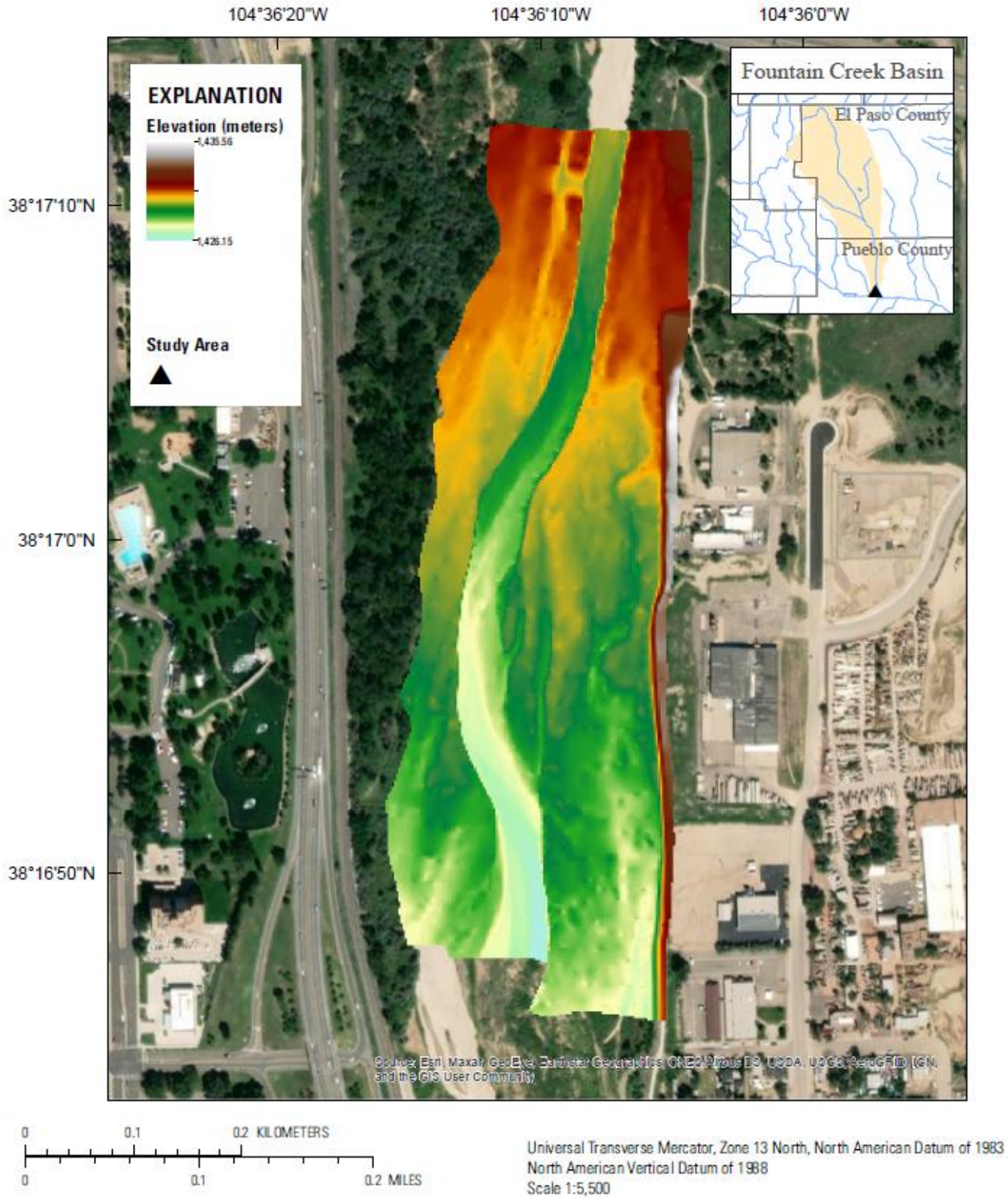
Elevation map of Fountain Creek study area 05 with an aerial background image, 2015.



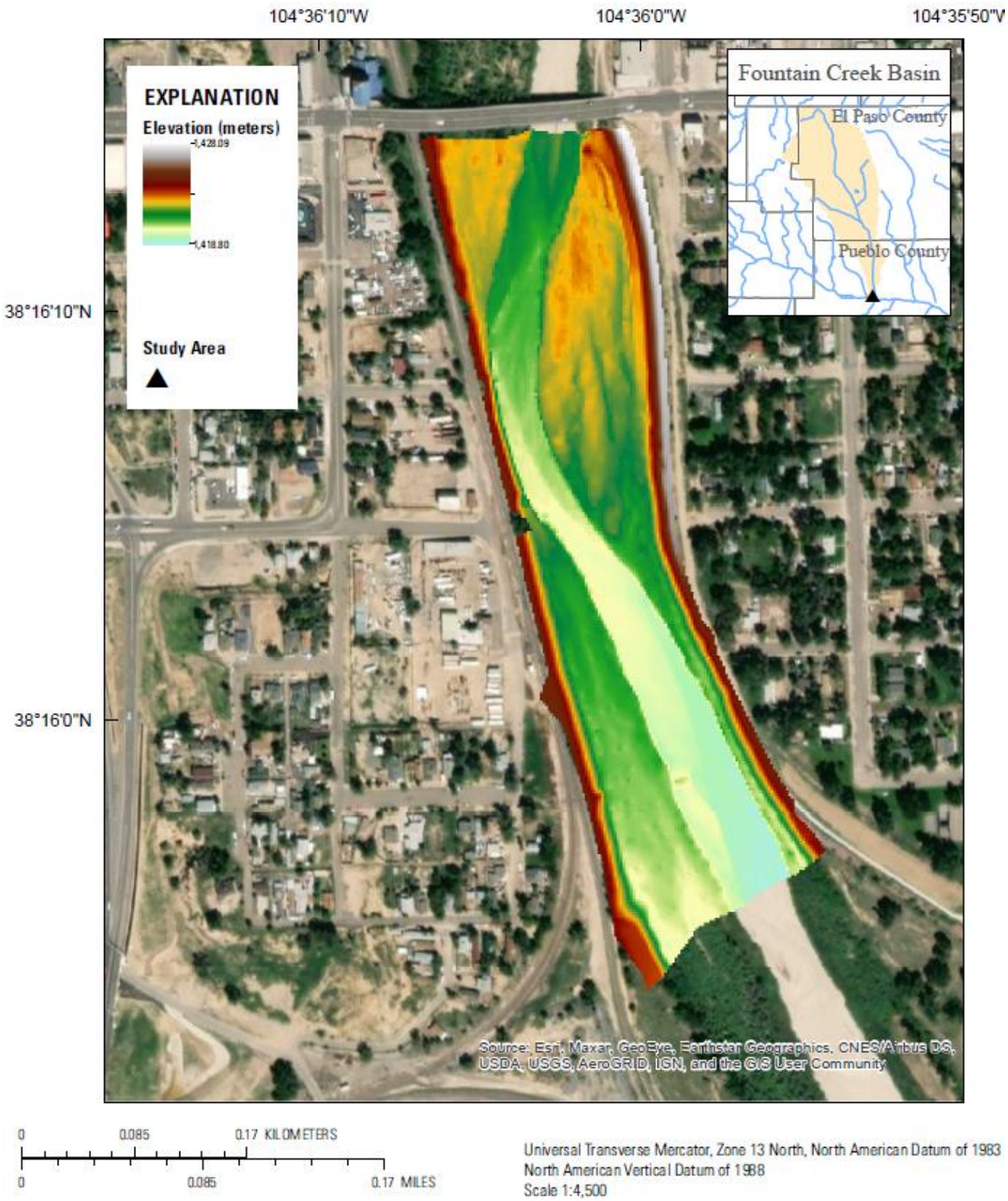
Elevation map of Fountain Creek study area 06 with an aerial background image, 2015.



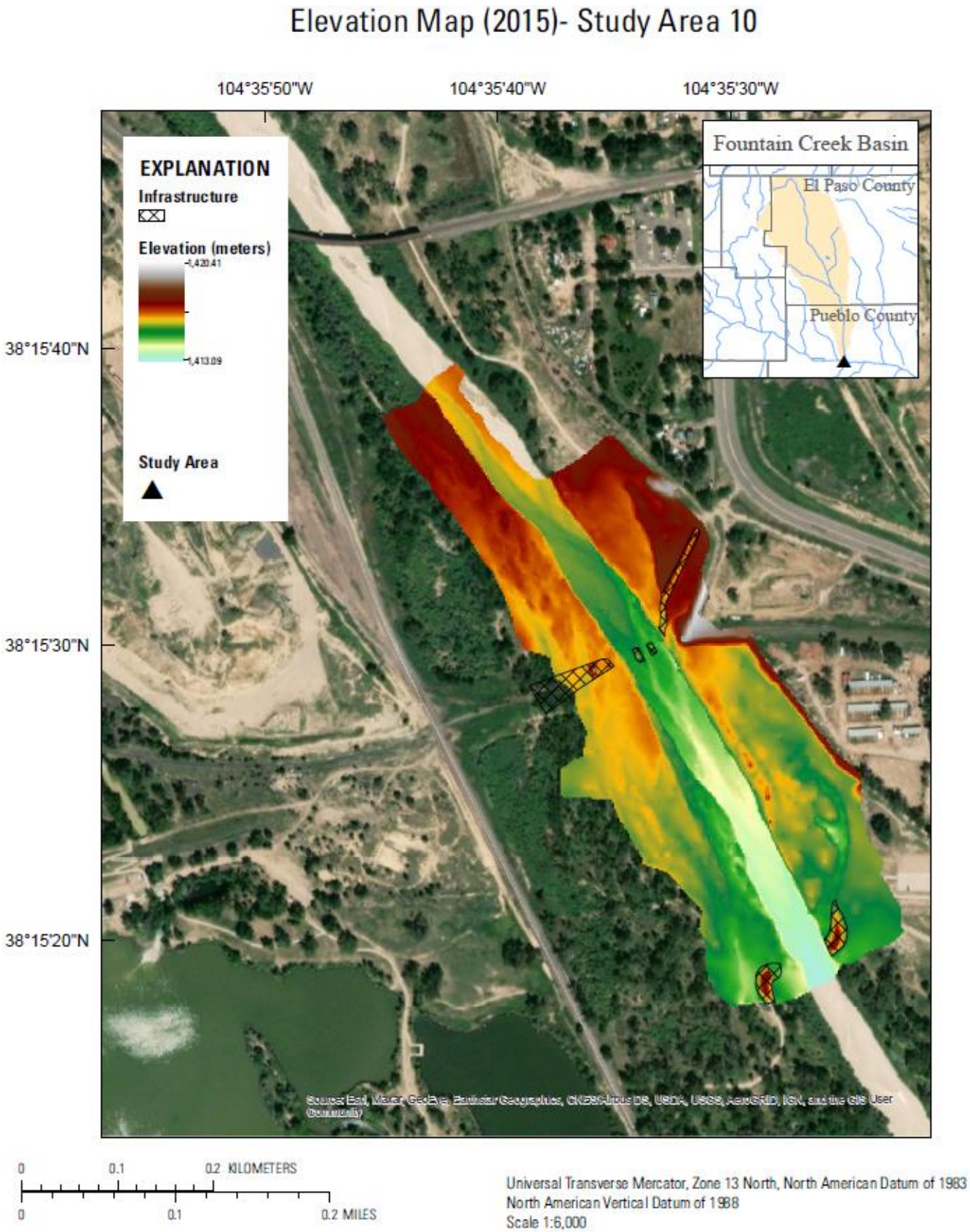
Elevation map of Fountain Creek study area 07 with an aerial background image, 2015.



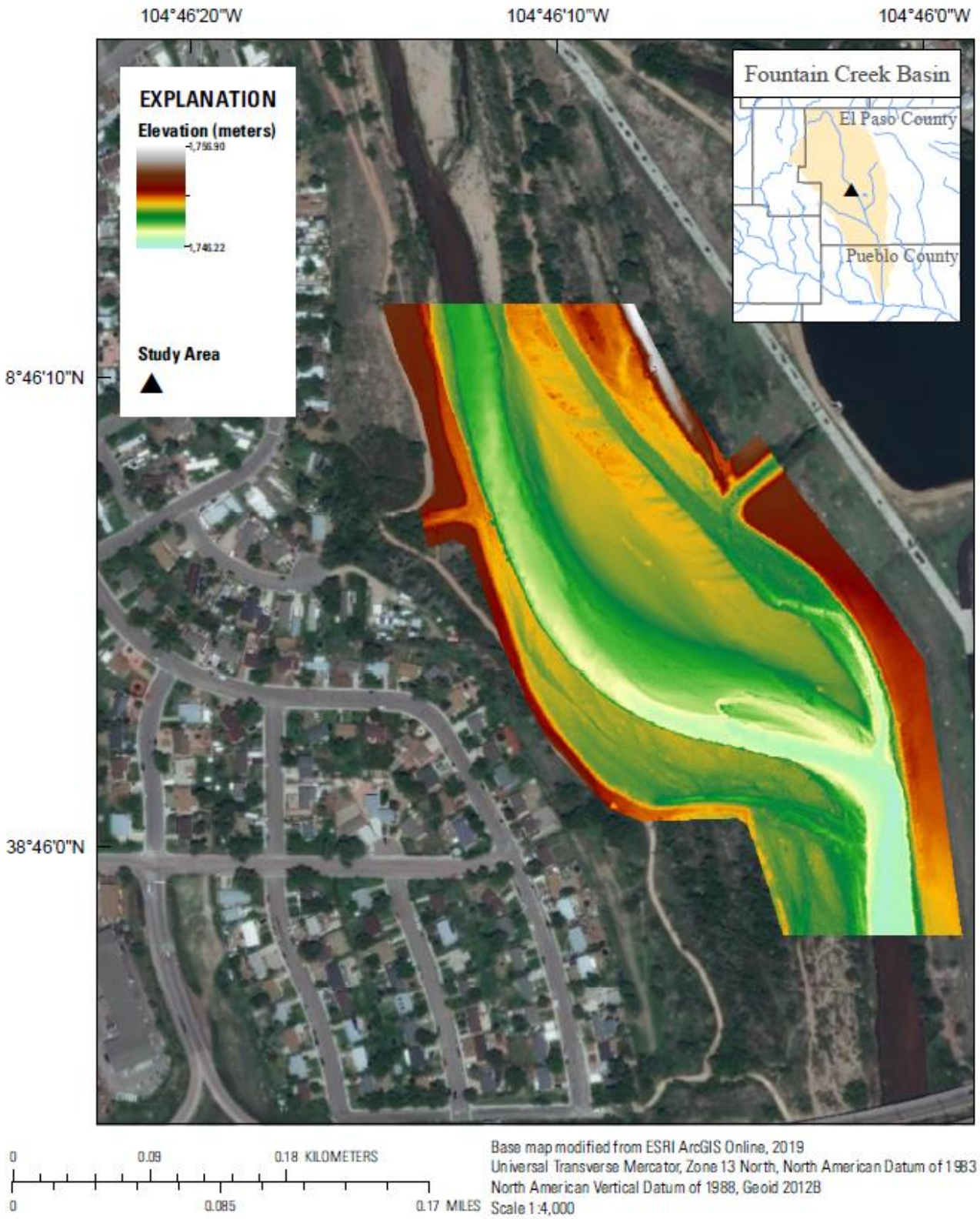
Elevation map of Fountain Creek study area 08 with an aerial background image, 2015.



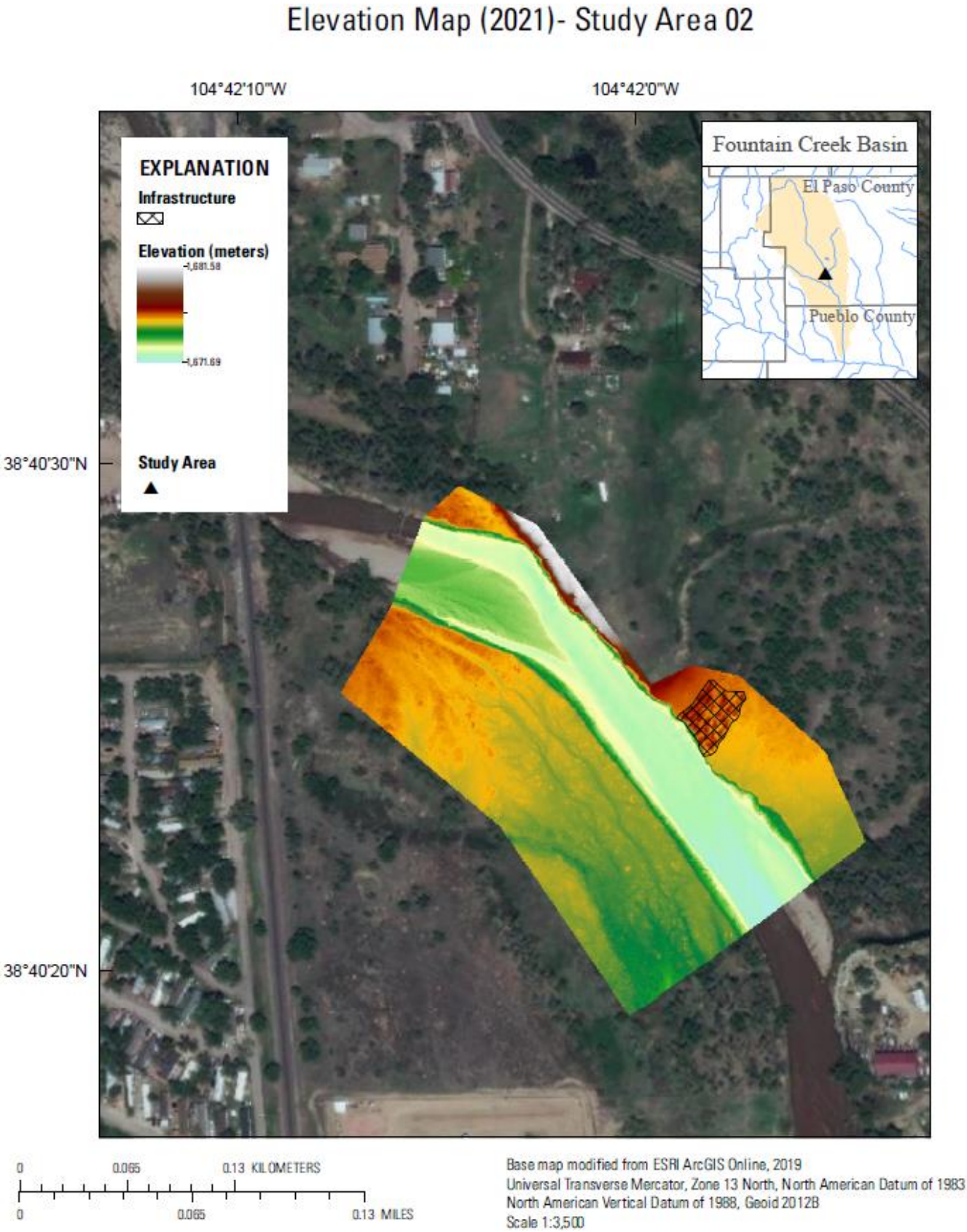
Elevation map of Fountain Creek study area 09 with an aerial background image, 2015.



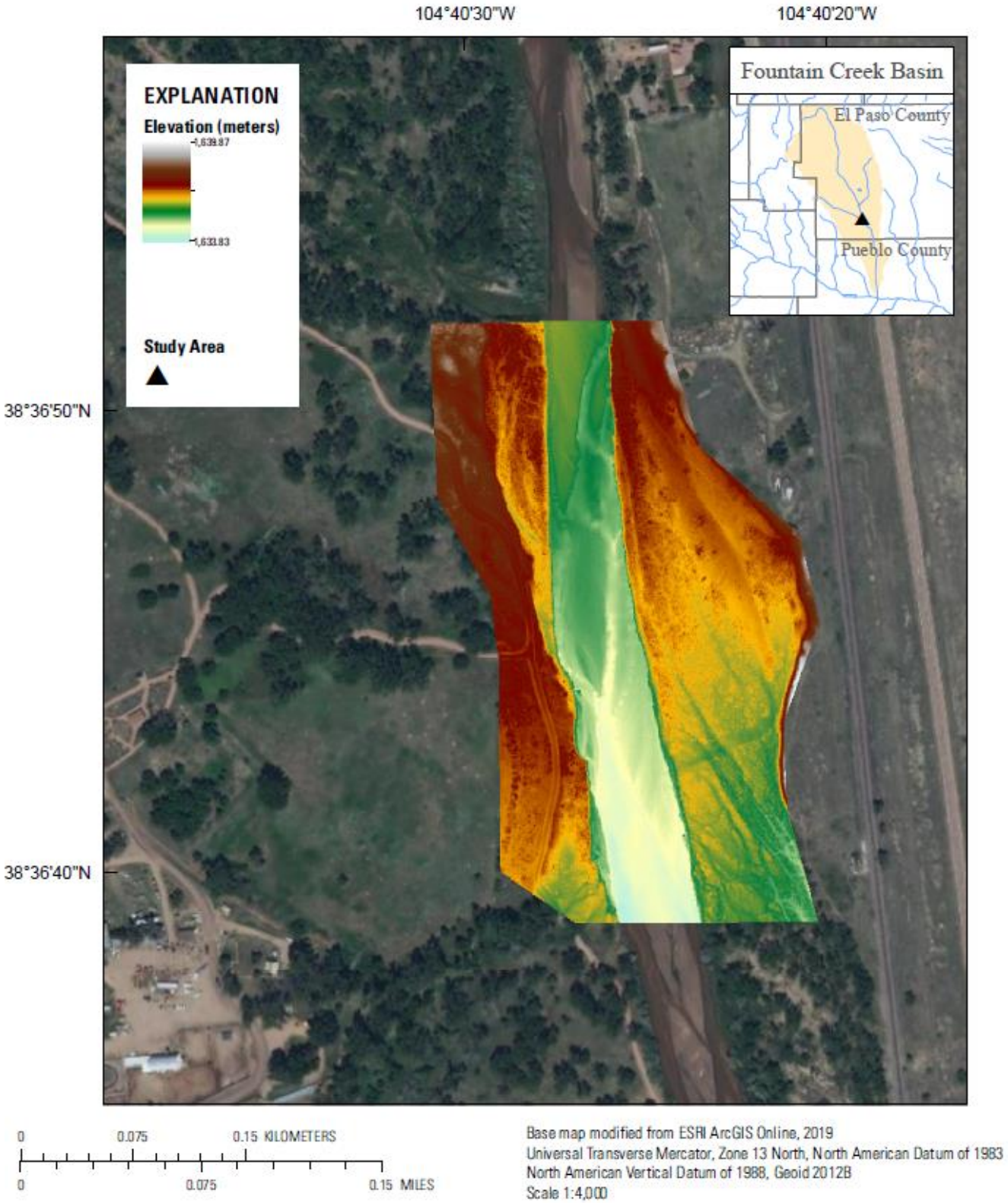
Elevation map of Fountain Creek study area 10 with an aerial background image, 2015.



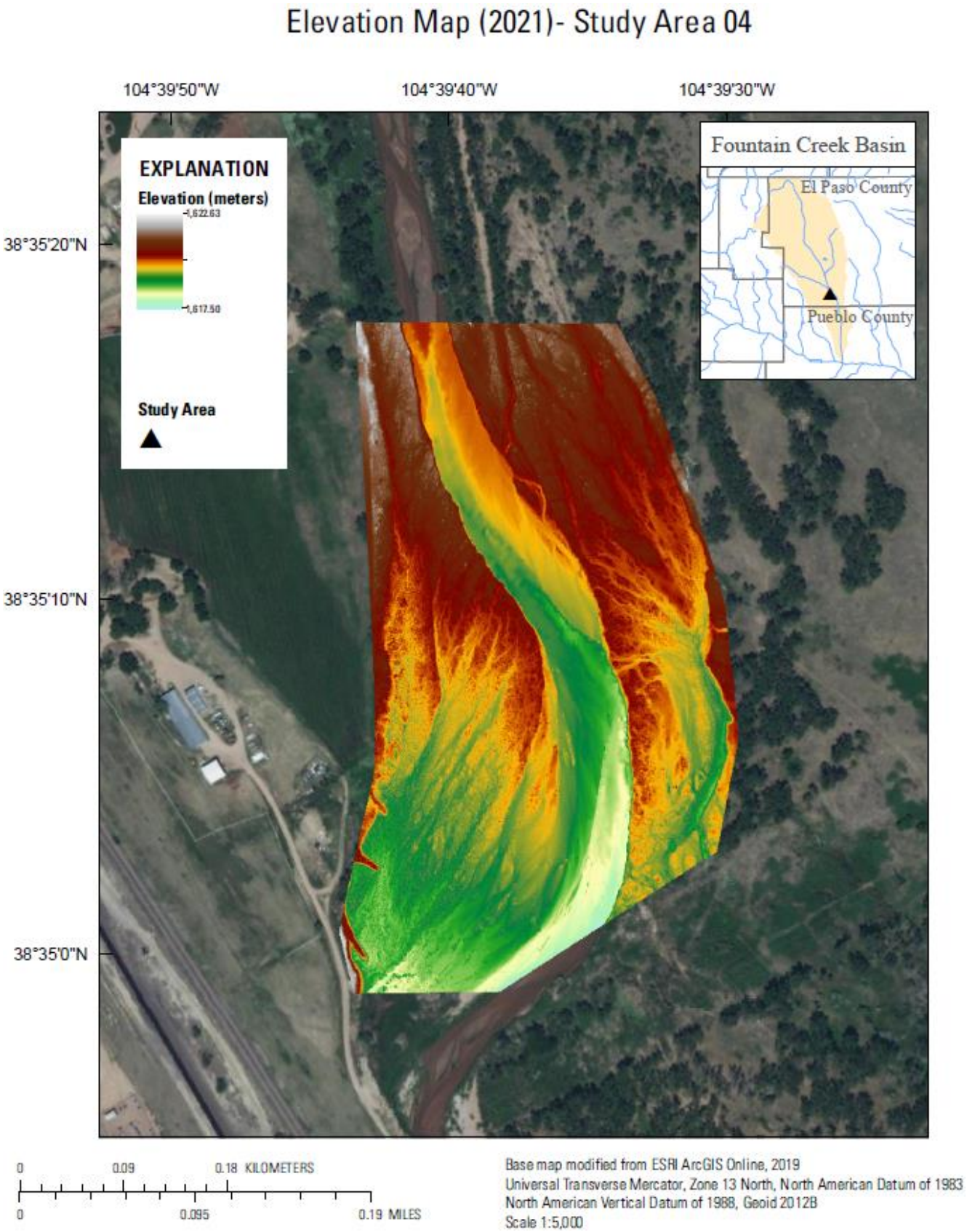
Elevation map of Fountain Creek study area 01 with an aerial background image, 2021.



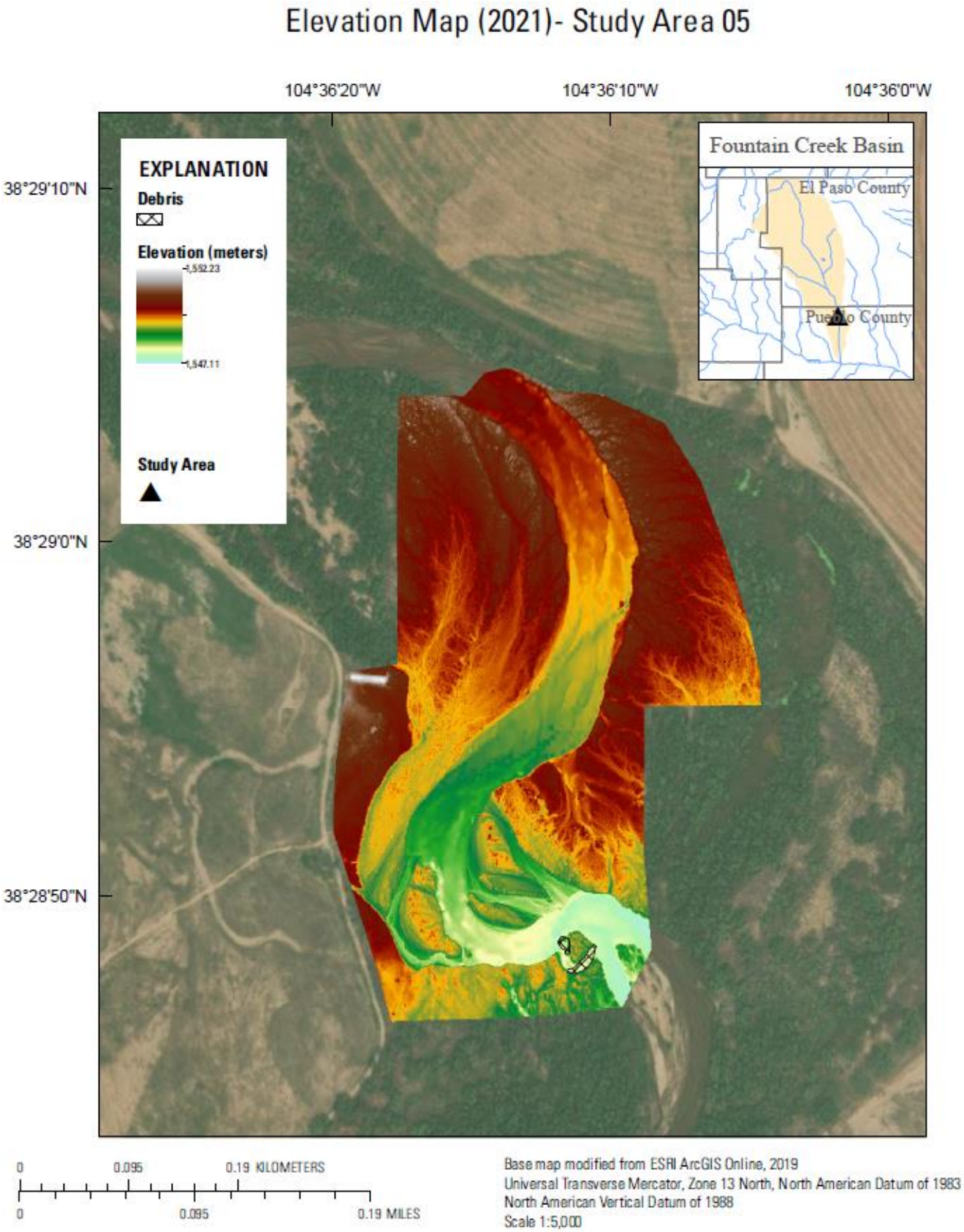
Elevation map of Fountain Creek study area 02 with an aerial background image, 2021.



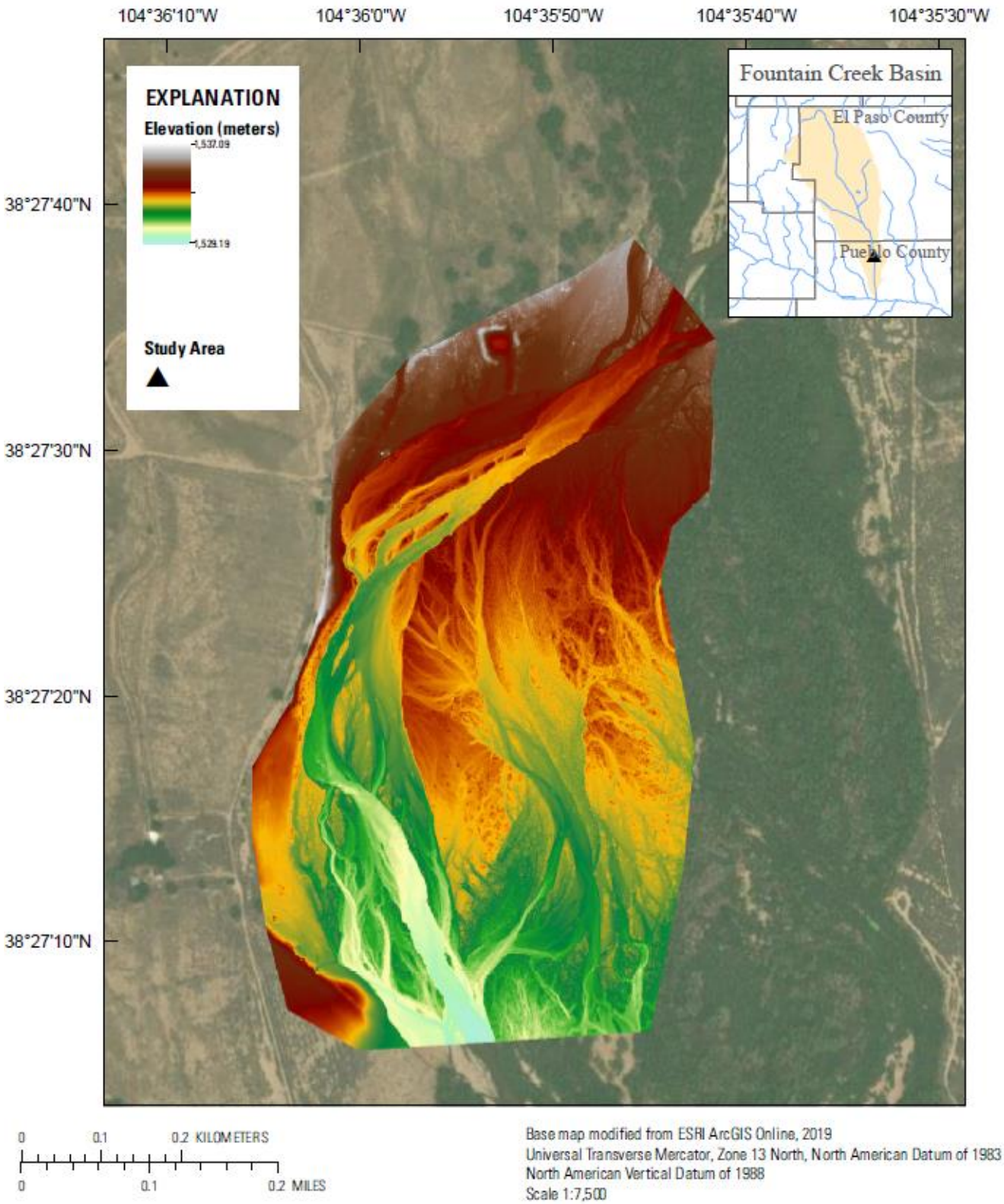
Elevation map of Fountain Creek study area 03 with an aerial background image, 2021.



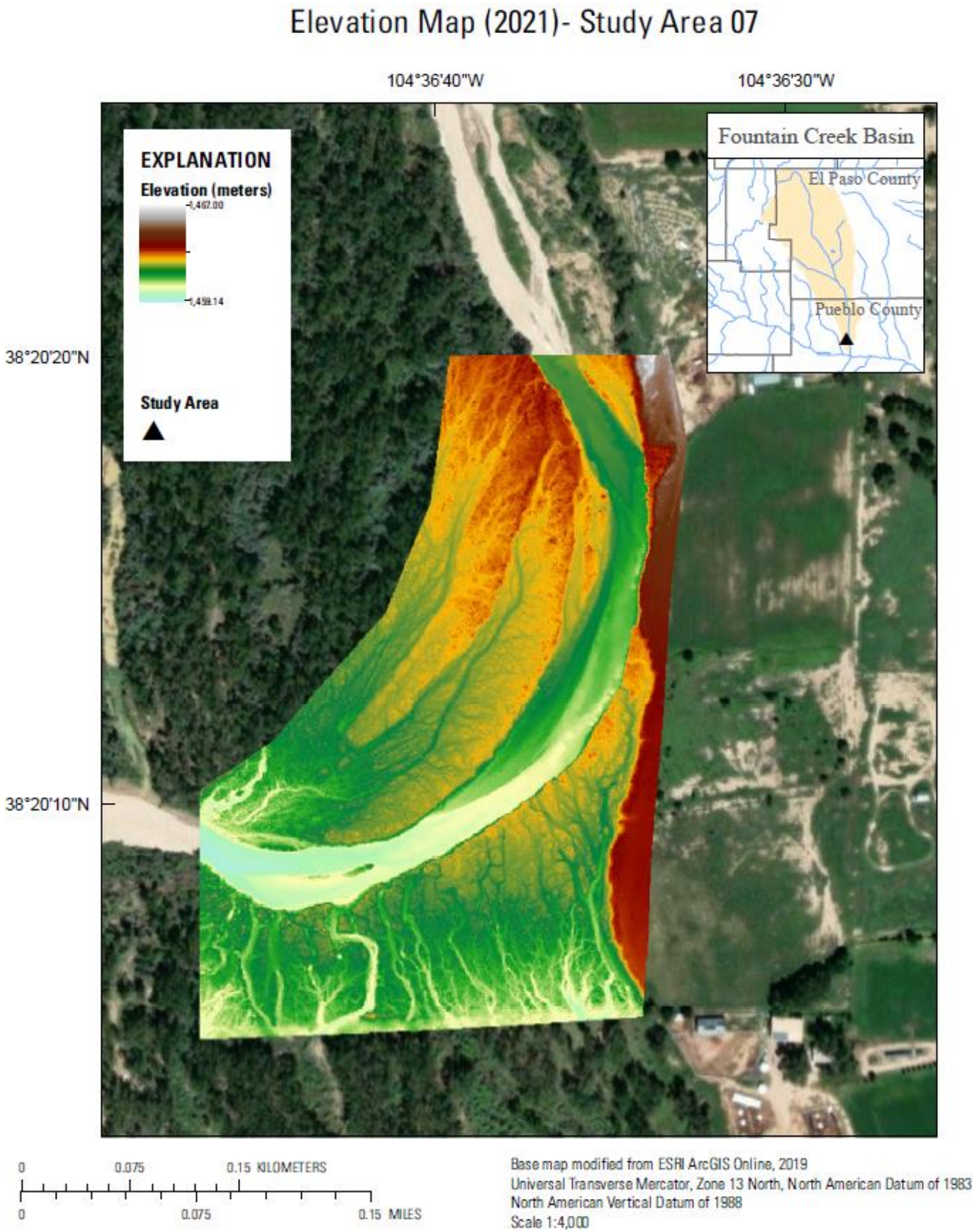
Elevation map of Fountain Creek study area 04 with an aerial background image, 2021.



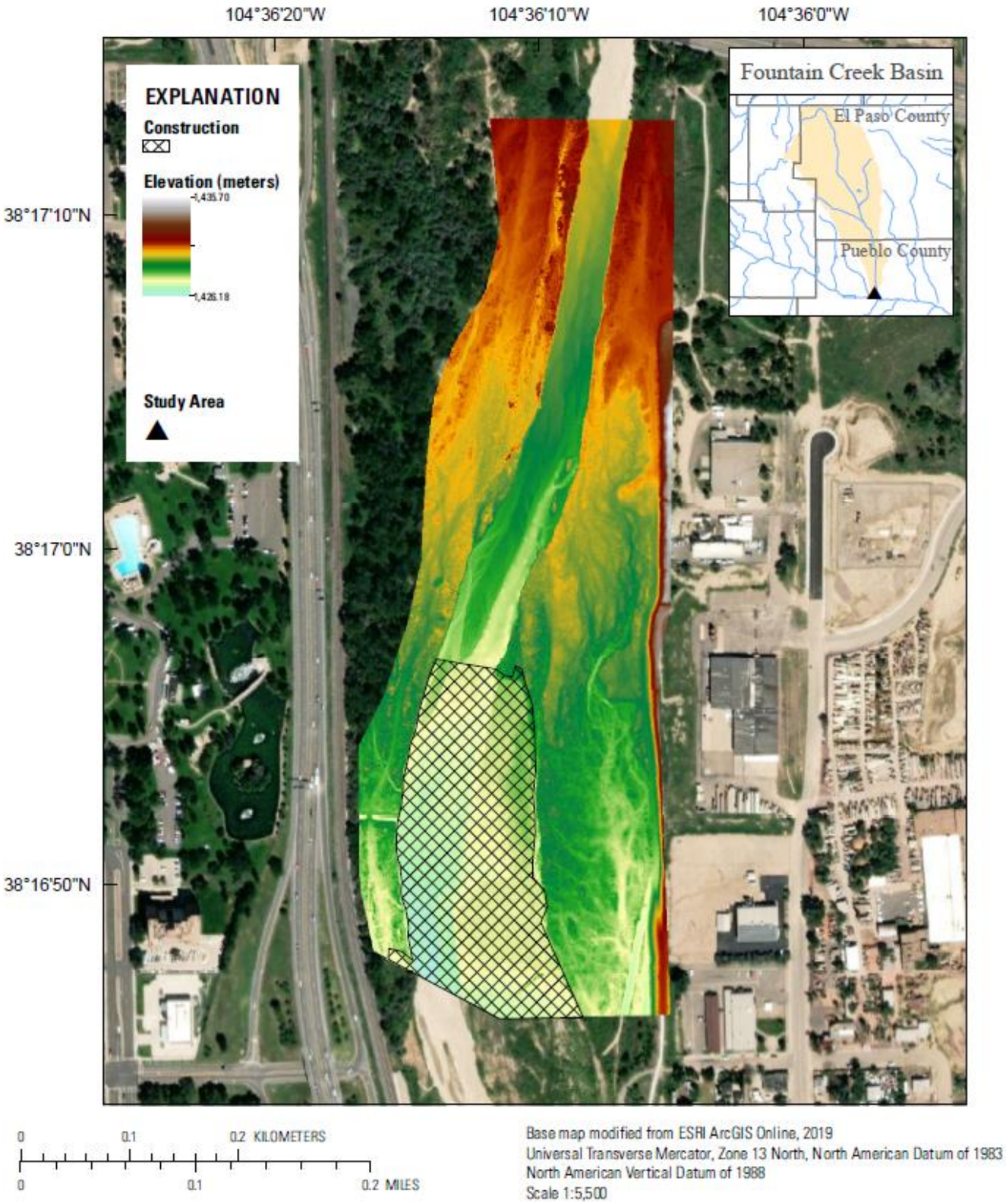
Elevation map of Fountain Creek study area 05 with an aerial background image, 2021.



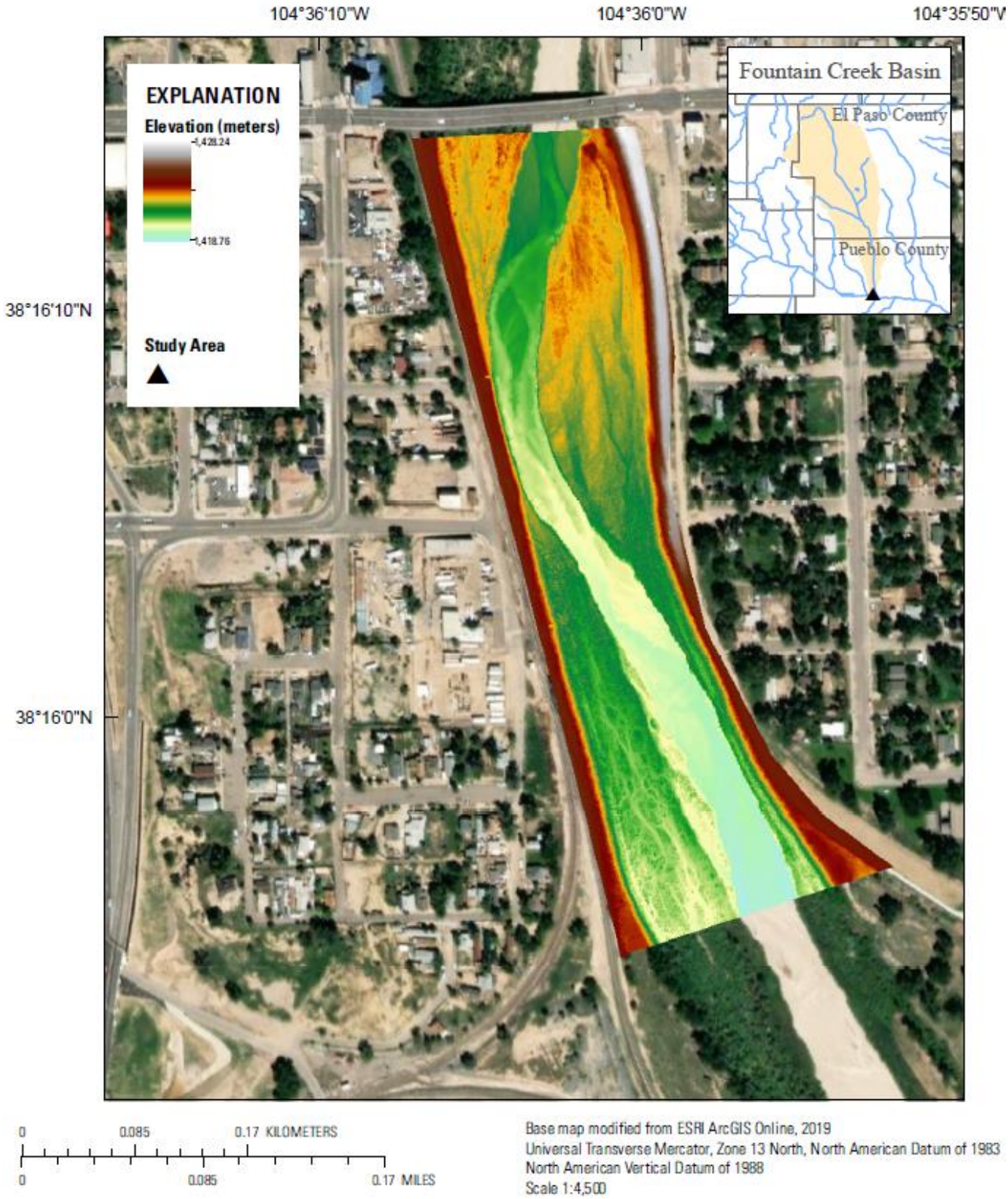
Elevation map of Fountain Creek study area 06 with an aerial background image, 2021.



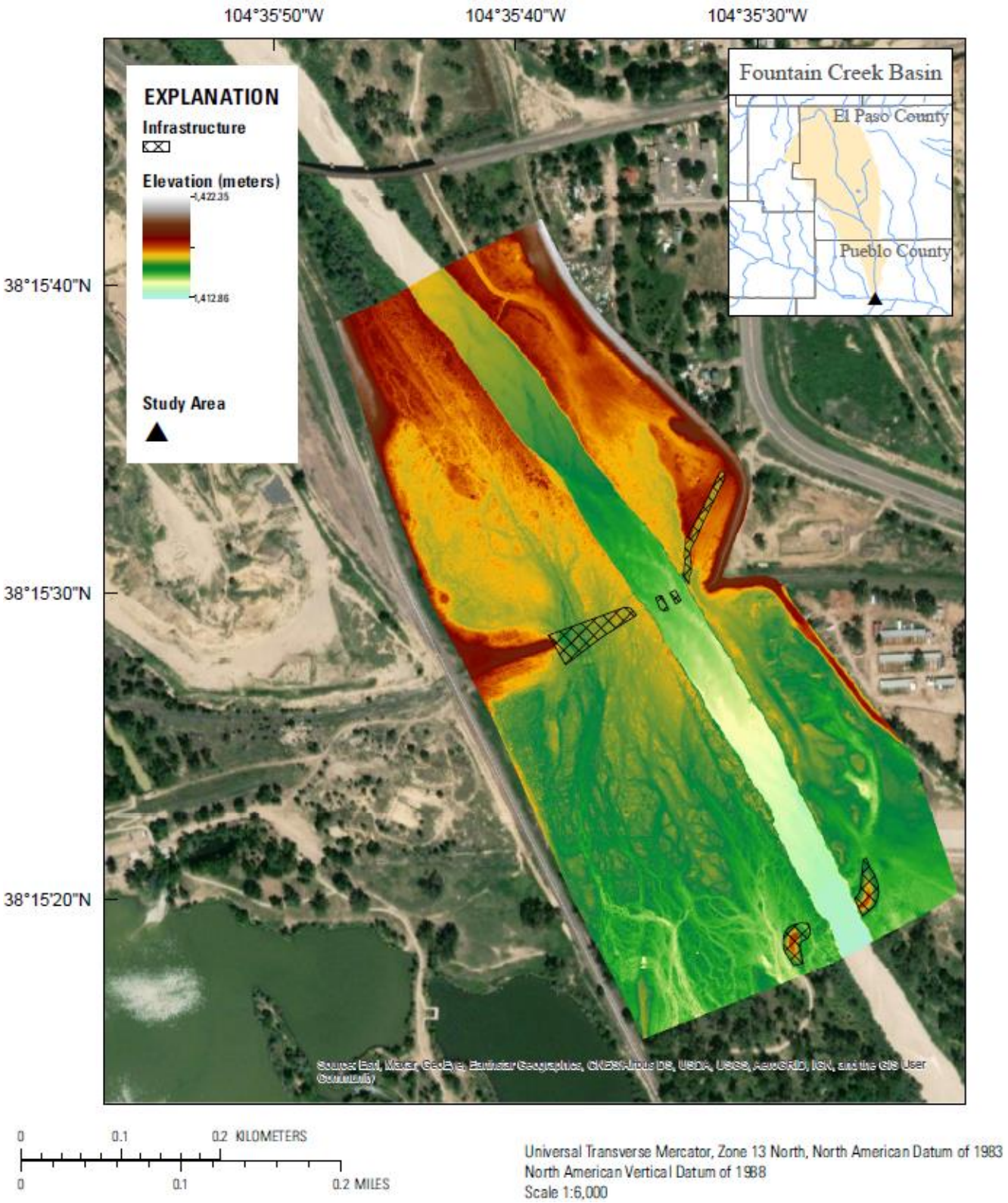
Elevation map of Fountain Creek study area 07 with an aerial background image, 2021.



Elevation map of Fountain Creek study area 08 with an aerial background image, 2021.



Elevation map of Fountain Creek study area 09 with an aerial background image, 2021.



Elevation map of Fountain Creek study area 10 with an aerial background image, 2021.