

APPENDIX B – PROJECT DESCRIPTION FORMS

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WEST SLOPE STORMWATER RESOURCE PLAN

Appendix B Project Description Forms
March 2018

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B.1 INTRODUCTION

As discussed in Section 4.2.1 of the West Slope SWRP, project description forms explain the project goals and objectives, the need for the project and problem to be addressed, potential pitfalls and challenges, approaches and execution methods, resource estimates, people and organizations involved, and other relevant information needed to explain the project and the amount of work planned for implementation. The project description forms are quick fact sheets that can be incorporated into future documents such as: environmental review documents, Water Quality Control Plans, applicable water quality control policies, water rights, IRWMPs, and monitoring plans. Below shows the template used for project description forms.

Project/Program Name			
Responsible Agency			
Partner Agency (ies)			
Net Yield	Normal Year:	Wet Year:	Dry Year:
Estimated Cost	Capital:		
Unit Cost			
Site Coordinates (Approximate)	Latitude:	Longitude:	
Description			
Component			
Potential Challenges			
Conceptual GIS Map of Site			
Purpose(s)		Key Stakeholders	
<input type="checkbox"/> Improve in-stream water quality <input type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water			

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Stage of Development		
<input type="checkbox"/> Conceptual	<input type="checkbox"/> Planning	<input type="checkbox"/> Pre-Design
<input type="checkbox"/> Design	<input type="checkbox"/> Construction	<input type="checkbox"/> Other
Expected Project Timeline		
Project Triggers		
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity		
Benefit Category	Main Benefit	Additional Benefit
Water Quality while contributing to compliance with applicable permit and/or TMDL requirements	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply through groundwater management and/or runoff capture and use	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas

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Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input type="checkbox"/> No, explain _____
Project Benefits a DAC/EDA: ¹	<input type="checkbox"/> Yes, which one _____ <input type="checkbox"/> No
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input type="checkbox"/> No, explain _____
Contact Person(s):	
Key References:	
Supplemental Information (e.g., Project Webpage or equivalent):	

¹DAC = Disadvantaged Communities
 EDA = Economically Distressed Area

Project ID's were assigned for each identified project under the three components. Project ID's with 1XX format are categorized under Surface Water Storage, 2XX under Watershed Management, and 3XX under Stormwater Management. The following sections contain the project description forms for each component.

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B.2 SURFACE WATER STORAGE

B.2.1 100 Alder Reservoir

Project/Program Name	<i>Alder Reservoir</i>		
Responsible Agency	El Dorado County Water Agency		
Partner Agency (ies)	El Dorado Irrigation District, County of El Dorado, U.S. Department of the Interior, Bureau of Reclamation (Reclamation)		
Net Yield	Normal Year: ~23,480 AFY	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$909 Million		
Unit Cost	NA		
Site Coordinates	Latitude: 38.729700°	Longitude: -120.342875°	
Description			
<p>Alder Creek Dam and Reservoir is located in the headwater catchment of Alder Creek just 25 miles east of Placerville in El Dorado County, California at an elevation of 5,500 feet. Several Alder Reservoir concepts have been studied over the years. In 2004 the 108th Congress passed H.R. 3597, which authorized the Secretary of the Interior to conduct a feasibility study for construction of a water storage project on Alder Creek. Currently, Alder Reservoir is included in Reclamation’s Sacramento-San Joaquin River Basin Study as a potential climate change adaptation measure. A wide range of Alder Reservoir scenarios have been studied over the last several decades: a 32,000 acre-foot (AF) water supply reservoir with a 10MW powerhouse and power generation of up to 56,000 MWh; a 60,000 AF water supply and seasonal pumped storage reservoir with a 14 MW powerhouse and power generation up to 81,000 MWh; and a 175,000 AF reservoir with 110 MW capacity at 3 powerhouses and power generation up to 470,000 MWh. This “Large Alder” project has been identified to provide the greatest public benefit.</p> <p>The Alder Reservoir project, would divert water from the South Fork American and Silver Fork to Alder Reservoir through approximately 6.6 miles of pipelines and 8.8 miles of tunnels. In an average water year these diversions would total about 180,000 AF. At Alder Reservoir, this water, along with local Alder Creek runoff (23,480 AF per year on average), would be stored and then released as required for renewable energy generation, to meet water supply demands, and provide environmental flows. These releases would be conveyed through three powerhouses arranged in series, through approximately 18 miles of pipelines, tunnels and penstocks, with a total elevation drop of approximately 3,600 feet, back into the American River at the current site of the El Dorado Hydroelectric Project (FERC Project No. 184) El Dorado Powerhouse. To improve local supply reliability in dry years, water could be diverted from the project upstream of the El Dorado Powerhouse into Jenkinson Lake and/or at El Dorado Forebay and used to meet consumptive and irrigation demands. The project would also allow for coordinated operations with Reclamation for releases at Folsom Reservoir, similar to other large reservoirs in the American River watershed, for enhanced water supply reliability, temperature management for anadromous fish in the Lower American River and for broader CVP/SWP benefits including improvement to ecosystems, water quality, flood control, emergency response and recreation. The cost of the Alder Dam and Reservoir Project was estimated at \$250 million in 1978 (ENR CCI=2776). Adjusted to today’s dollars, project costs are estimated to be about \$909 million (ENR CCI=10092).</p>			

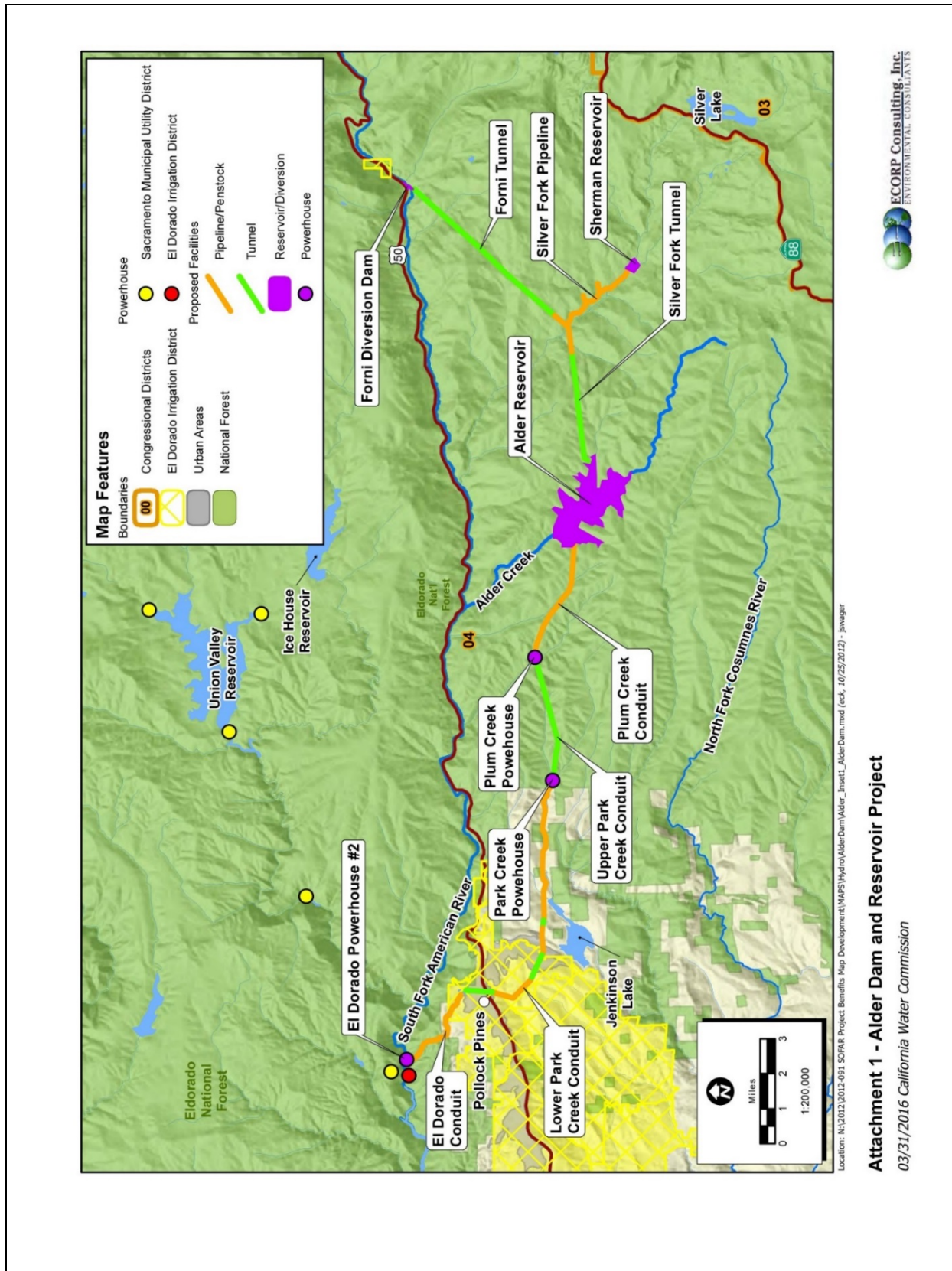
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Component
Surface Water Storage
Potential Challenges
Funding reservoir construction
Conceptual GIS Map of Site
<i>Can refer to the map that was obtained from the Alder Public Benefits Concept Paper that describes the location of the proposed reservoir location.</i>

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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input checked="" type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input checked="" type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		Water Forum, local environmental interests, Sacramento area water users, and state and federal water contractors
Stage of Development		
<input type="checkbox"/> Conceptual <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Pre-Design <input type="checkbox"/> Design <input type="checkbox"/> Construction <input type="checkbox"/> Other		
Alder Reservoir has a feasibility study.		
Expected Project Timeline	Begin 2018: End 2040	
Project Triggers	Increasing water supply needs and reliability concerns under climate change	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
Congressional authorized cost-share feasibility study (with the MOU signed in 2017), Reclamation's American River Basin Study (awarded and in progress, covering early regional collaboration for coordinated actions), Reclamation's Water Marketing Strategy Grant (awarded with pending agreement with Reclamation, covering potential water transfer opportunities as part of the regional collaboration)		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
<input checked="" type="checkbox"/> Primary <input type="checkbox"/> Opportunity		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas

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<p><i>Water Quality Benefit:</i> Alder Reservoir would provide greater operational flexibility at Folsom Reservoir and the broader CVP/SWP to meet CVP water quality and Delta water quality requirements. Alder Reservoir is in a source area watershed and water quality is typically the best of any storage reservoir alternative because of the limited upstream runoff to dilute or contaminated the inflow to the reservoir the</p> <p><i>Water Supply Benefit:</i> Alder Reservoir would benefit the water supply needs of local, regional and statewide demands. Local water supply reliability in dry and critical dry years would be improved with Alder Reservoir storage. Regionally, lower American River water purveyors with current diversion limitations in dry years would benefit from: Folsom Reservoir cold-water pool augmentation provided by Alder Reservoir for fisheries temperature; and additional water supply for transfer or exchange, including groundwater banking in the Sacramento region.</p> <p><i>Flood Management Benefit:</i> Alder Reservoir's storage capacity upstream of Folsom Reservoir would provide measurable benefits to existing flood control operations for protection of the Sacramento region. Alder Reservoir could reduce the Folsom Reservoir flood space required to protect the Sacramento region, providing increased opportunity for Folsom Reservoir to store additional water to meet CVP contractor and environmental flow demands.</p> <p><i>Environmental Benefit:</i> Water supply from Alder Reservoir would provide significant downstream ecological and environmental benefits. The reservoir would contribute to the water supply necessary to support the CVP/SWP long-term operation related flow augmentation for: 1) temperature management in the Lower American River for fall-run Chinook salmon and steelhead trout; 2) Delta salinity standards by maintaining Delta outflow, X2, Rio Vista flows, chloride minimums and other water quality standards; 3) CVP Improvement Act B2 water deliveries for fisheries management; and 4) Cosumnes River flow augmentation for fisheries management and groundwater recharge, via Jenkinson Lake.</p> <p><i>Community Benefit:</i> The construction, operation and maintenance of Alder Reservoir would provide many employment opportunities. Alder Reservoir would be separate and independent from the CVP/SWP system. Its regulatory approvals, administrative oversight, contracting, and public/stakeholder input would be controlled by a single local agency. Alder Reservoir would offer a wide range of recreational and economic benefits to the communities within the Eldorado National Forest. Tourism would be promoted through the California Department of Parks and Recreation, El Dorado County, local chambers of commerce, and individual small business entrepreneurs providing significant new recreational opportunities in the Sacramento region and beyond. These promotions would represent a diversification and employment benefit to small communities in the area, like Kyburz and Pollock Pines.</p>	
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>in future amendment (CABY)</u>
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one <u>Project falls under the 2010-2014 DAC Block Groups identified by the CA Department of Water Resources</u> <input type="checkbox"/> No _____
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>part of the federal feasibility study (on going)</u>

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Contact Person(s):
Ken Payne, General Manager of EDCWA, ken.payne@edcgov.us, (530) 621-5403
Key References:
https://cwc.ca.gov/Documents/2016/WSIP/EIDorado_AlderReservoir.pdf Public Law 101 Memorandum of Agreement
Supplemental Information (e.g., Project Webpage or equivalent):
NA

¹DAC = Disadvantaged Communities
EDA = Economically Distressed Area

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B.2.2 104 Silver Lake Dam Remediation

Project/Program Name	<i>Silver Lake Dam Remediation</i>		
Responsible Agency	El Dorado Irrigation District		
Partner Agency (ies)	El Dorado County Water Agency		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$10,000,000		
Unit Cost	NA		
Site Coordinates	Latitude: 38.668568°	Longitude: -120.121642°	
Description			
<p>Silver Lake Dam was constructed in 1876 and has undergone multiple episodes of modifications. The dam outlet and spillway has insufficient capacity to pass the Probable Maximum Flood (PMF) without overtopping of the dam. The aged concrete spillway structure may be susceptible to damage during earthquake loading, compromising El Dorado Irrigation District's (EID) ability to draw down the reservoir during an emergency flood event. Other components of the dam also have reliability concerns including leakage, seepage driven internal erosion, voids, and loss of integrity of the earth fill due to degradation of the original timber cribbing.</p> <p>EID has evaluated a rehabilitation/repair alternative or complete replacement of Silver Lake dam to resolve the identified safety deficiencies and ensure long-term reliability. Based on the evaluation, the Dam Replacement Alternative is recommended to meet EID's objectives. The reservoir storage capacity is 8,590 AF.</p>			
Component			
Surface Water Storage			
Potential Challenges			
<p>Funding</p> <p>Federal Energy Regulatory Commission (FERC)/California Division of Safety of Dams (DSOD) review and approval, license amendment</p> <p>Public/recreational considerations</p>			
Conceptual GIS Map of Site			

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ID 104 - Silver Lake Dam Remediation

Project Type

- Surface Water Storage
- Linear Project Limits
- Project Limits

Project Component:

Latitude: 38.668568
 Longitude: -120.121642

0 1,000 2,000 Feet

Projection: CA SP II NAD83
 Background: NAIP (2016)
 Prepared: February, 2018

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Purpose(s)		Key Stakeholders	
<input type="checkbox"/> Improve in-stream water quality <input type="checkbox"/> Improve health of local watersheds <input checked="" type="checkbox"/> Improve local water supply reliability <input checked="" type="checkbox"/> Implement & monitor a reliable stormwater system <input checked="" type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		El Dorado County El Dorado County Water Agency Amador County	
Stage of Development			
<input type="checkbox"/> Conceptual <input type="checkbox"/> Design		<input checked="" type="checkbox"/> Planning <input type="checkbox"/> Construction	
		<input checked="" type="checkbox"/> Pre-Design <input type="checkbox"/> Other	
Expected Project Timeline	Begin: 2023, End: 2024		
Project Triggers	Funding availability, additional flooding		
Potentially Applicable Federal and State Programs for Technical and Financial Assistance			
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program Bureau of Reclamation WaterSMART U.S. Department of Agriculture			
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):			
■ Primary ■ Opportunity			
Benefit Category	Main Benefit	Additional Benefit	
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control	
		Reestablished natural water drainage and treatment	
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation	
	Conjunctive use		
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows	
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink	
		Reestablishment of the natural hydrograph	
	Increased urban green space	Water temperature improvements	
Community	Employment opportunities provided	Community involvement	
	Public education	Enhance and/or create recreational and public use areas	

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<p>The implementation of this project will help secure water supply reliability in the region, will help reduce the risk of flooding, improve the local environment, will reestablish the natural hydrograph, and will help improve the water temperature of the local environment that is helpful for sustaining aquatic life. Additionally, this project will create employment opportunities, contains a public education component, and will sustain and enhance the recreational area that is near Silver Lake.</p>	
<p>Project Included in IRWM:</p>	<p><input type="checkbox"/> Yes, which one _____</p> <p><input checked="" type="checkbox"/> No, explain <u>Project to be included in CABY IRWM</u></p>
<p>Project Benefits a DAC/EDA:¹</p>	<p><input checked="" type="checkbox"/> Yes, which one <u>Benefits DAC Block Groups 2010-2014 as identified by the CA Department of Water Resources</u></p> <p><input type="checkbox"/> No _____</p>
<p>CEQA Compliance:</p>	<p><input type="checkbox"/> Yes, explain _____</p> <p><input checked="" type="checkbox"/> No, explain <u>To be completed</u></p>

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Contact Person(s):
Brian Mueller, Director of Engineering, El Dorado Irrigation District, bmueller@eid.org, (530) 642-4029
Key References:
NA
Supplemental Information (e.g., Project Webpage or equivalent):
NA

¹DAC = Disadvantaged Communities
EDA = Economically Distressed Area

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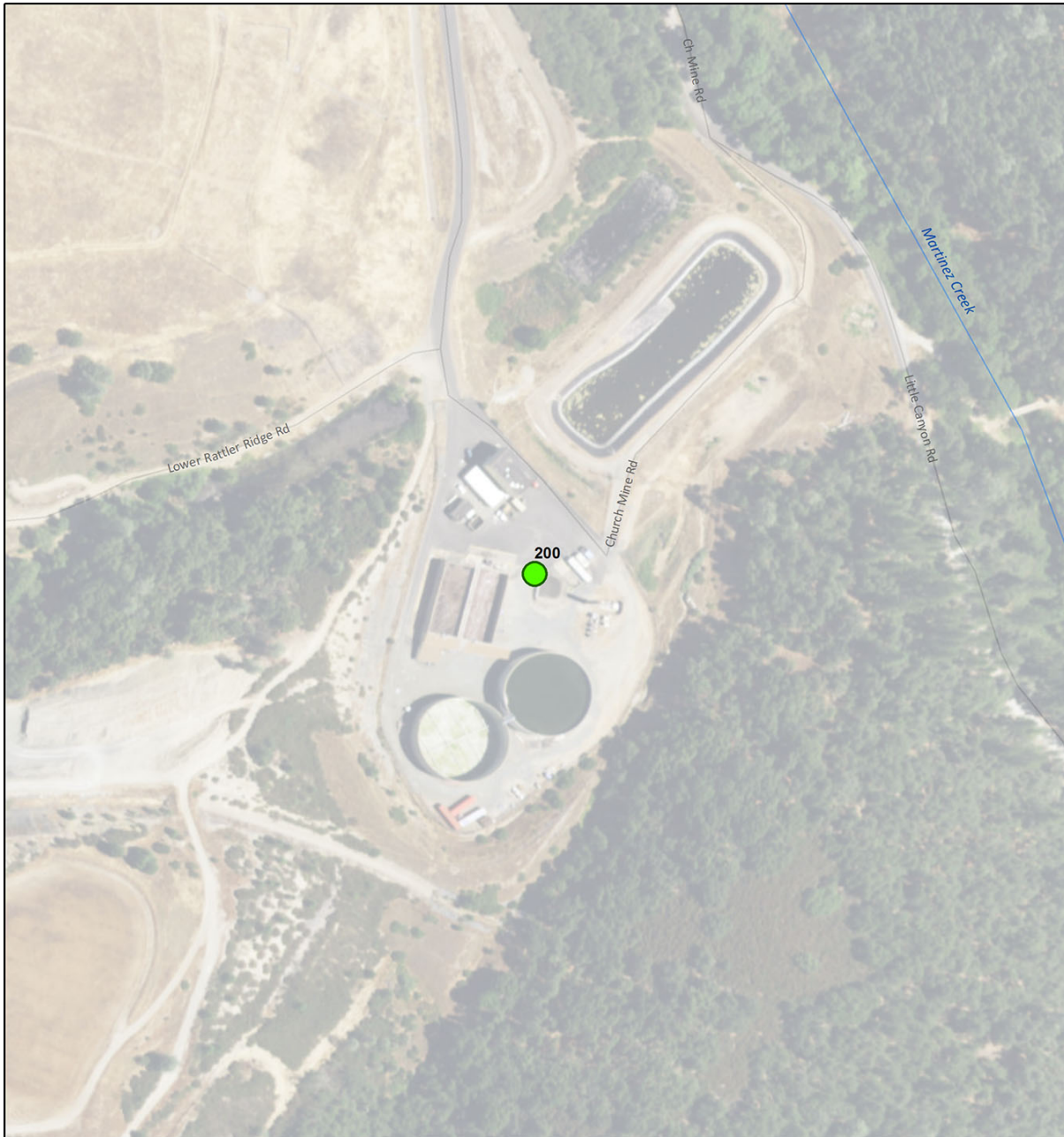
B.3 WATERSHED MANAGEMENT

B.3.1 200 Biomass Plant – Union Mine

Project/Program Name	<i>Biomass Plant-Union Mine</i>		
Responsible Agency	El Dorado County Water Agency		
Partner Agency (ies)	County of El Dorado Environmental Management Department, County of El Dorado Chief Administrative Office		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$30 Million		
Unit Cost	NA		
Site Coordinates	Latitude: 38.646674°	Longitude: -120.82715°	
Description			
<p>This project would explore a way to save water by delving into the biomass industry. Biomass is anything organic burned or fermented (ex. Sludge) to create gas or fuel. The steam it produces can operate machine engines and when cooled is clean water that can be re-heated for continued use. El Dorado County operates a septage plant at their Union Mine Property. PJ Patton talked with the plant manager and learned that the water from human waste is cleaned and used in the sludge fields with the rest being released in Deer Creek for use by EID. The sludge from the plant is eventually dried and transported out of the county. The Union Mine Plant currently pays over \$100,000 annually for electricity. Consequently, an idea has been formulated to build a biomass plant on the County property by the Union Mine Plant. This plant would take in waste from the National Forest, the County Agriculture industry, current homeowners and the septage plant, produce electricity for the plant and sell the rest to either SMUD or PGE. One leg of this idea may be working with Sierra Pacific Industries to re-open the Camino Mill for the purpose of chipping forestry waste for the biomass plant. Another leg of this idea would be to work with the energy providers in Northern California to add infrastructure to receive the excess energy the biomass plant generates. It should also be stated that the Environmental Management Department of the County has a closed dump area in South Lake Tahoe that might also be a great location for a Biomass Plant.</p> <p>It will be assumed that the biomass plant will be sized at 7.5 MW and the installed costs will be \$4,000/kW, with a resulting estimated cost of \$30 Million.</p>			
Component			
Watershed Management			
Potential Challenges			
Intergovernmental cooperation (Fed, State, County)			
Funding			
Conceptual GIS Map of Site			

WEST SLOPE STORMWATER RESOURCE PLAN

Appendix B Project Description Forms
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ID 200 - Biomass Plant-Union Mine

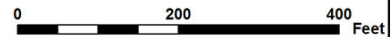
Project Type

● Watershed Management

■ Linear Project Limits

■ Project Limits

Project Component:
Watershed Management
Latitude: 38.646674
Longitude: -120.82715



Projection: CA SP II NAD83
Background: NAIP (2016)
Prepared: December, 2017

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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input type="checkbox"/> Improve health of local watersheds <input checked="" type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input checked="" type="checkbox"/> Increase community awareness for sustainable water		El Dorado County Water Agency, County of El Dorado Environmental Management Department, County of El Dorado Chief Administrative Office, El Dorado County, Pacific Gas and Electric Company, U.S. Forest Service, MERF
Stage of Development		
<input checked="" type="checkbox"/> Conceptual <input type="checkbox"/> Planning <input type="checkbox"/> Pre-Design <input type="checkbox"/> Design <input type="checkbox"/> Construction <input type="checkbox"/> Other		
Expected Project Timeline	Begin: 2020, End: 2026	
Project Triggers	Flow Rate and/or funding opportunity	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program		

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Appendix B Project Description Forms
March 2018

Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas
The proposed project will increase water supply reliability and promote water conservation in addition to help reduce nonpoint source pollution. This project will ultimately engage the involvement of the community and create job opportunities with the creation of this facility. With the construction of the biomass plant this project will create job opportunities during the construction phase and will eventually need a group of people to run the facility.		
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, not added to IRWM currently</u>	
Project Benefits a DAC/EDA: ¹	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No _____	
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, no environmental documentation is completed yet</u>	

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Appendix B Project Description Forms
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Contact Person(s):
Ken Payne, General Manager of EDCWA, ken.payne@edcgov.us, (530) 621-5403
Key References:
IER Institute for Energy Research: Impact of EPA's Regulatory Assault on Power Plants: New Regulations to Take More than 72 GW of Electricity Generation Offline and the Plant Closing Announcements Keep Coming. 2016 Annual Technology Baseline (ATB) PowerPoint, September 2016
Supplemental Information (e.g., Project Webpage or equivalent):
Biomass for Electricity Generation, online article by the US Department of Energy, http://wbdg.org/resources/biomass-electricity-generation#intro https://www.wbdg.org/resources/biomass-electricity-generation http://ucanr.edu/sites/WoodyBiomass/files/78993.pdf

¹DAC = Disadvantaged Communities
EDA = Economically Distressed Area

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WEST SLOPE STORMWATER RESOURCE PLAN

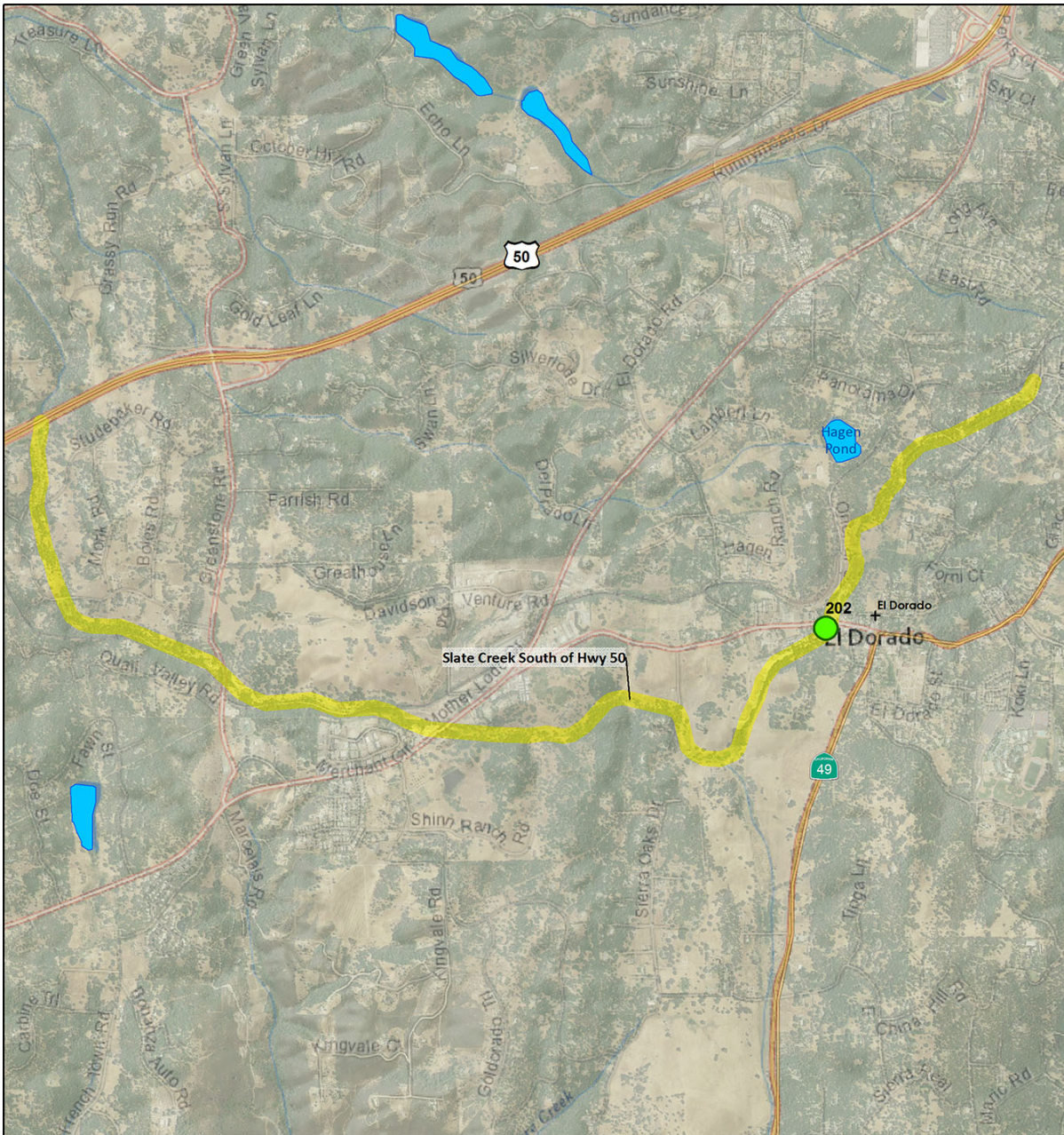
Appendix B Project Description Forms
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B.3.2 202 Slate Creek Monitoring Project

Project/Program Name	<i>Slate Creek Monitoring Project</i>		
Responsible Agency	El Dorado County - Community Development Services		
Partner Agency (ies)	California Department of Transportation		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: Cost not calculated due to conceptual nature of project.		
Unit Cost	NA		
Site Coordinates	Latitude: 38.682407°	Longitude: -120.850105°	
Description			
<p>The proposed project was developed to conduct long-term monitoring of the water quality of Slate Creek near the town of El Dorado, specifically in Slate Creek and its tributaries after and within the Town of El Dorado. Slate Creek crosses a developed area of the Town of El Dorado that is set to undergo road and drainage improvements. The proposed project aims at monitoring pre and post construction activities that are planned to occur on Pleasant Valley Rd. as well as ongoing long-term monitoring. This monitoring project will aim at monitoring flow, sediment, nutrient loads, and constituents that may result from the pre and post construction activities. Overall, the project aims at preserving the integrity of Slate Creek. Approximately 25,765 ft of Slate Creek will be monitored-Google Earth Estimate.</p>			
Component			
Watershed Management			
Potential Challenges			
Climatological predictions may affect the sizing or effectiveness of this project.			
Conceptual GIS Map of Site			

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ID 202 - Slate Creek Monitoring Project

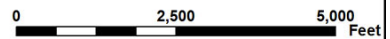
Project Type

Watershed Management

Linear Project Limits

Project Limits

Project Component:
Watershed Management
Latitude: 38.682407
Longitude: -120.850105



Projection: CA SP II NAD83
Background: NAIP (2016)
Prepared: December, 2017

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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		El Dorado County- Community Development Services, Town of El Dorado, and California Department of Transportation
Stage of Development		
<input checked="" type="checkbox"/> Conceptual <input type="checkbox"/> Planning <input type="checkbox"/> Pre-Design		<input type="checkbox"/> Design <input type="checkbox"/> Construction <input type="checkbox"/> Other
Expected Project Timeline	Begin: 2020, End: 2030	
Project Triggers	Funding opportunity	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program U.S. Army Corps of Engineers (USACE) - Aquatic Ecosystem Restoration (CAP Section 206) U.S. Army Corps of Engineers (USACE) - Snagging and Clearing for Flood Control (CAP Section 208)		

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Appendix B Project Description Forms
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Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply	Water supply reliability	Water conservation
<i>through groundwater management and/or runoff capture and use</i>	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas
This project aims at preserving the environmental integrity of Slate Creek. Ultimately, this project will monitor water quality, will enhance and protect the local habitats, and improve the in stream water quality conditions. The project will provide job opportunities as people will need to be hired to monitor the creek and/or establish a system to monitor it. To undergo the project it will require the engagement of the community. This project will have a public education component.		
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, not added to IRWM currently</u>	
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one <u>Project falls under the 2010-2014 DAC Block Groups identified by the CA Department of Water Resources</u> <input type="checkbox"/> No _____	
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, no environmental documentation is completed yet</u>	

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Appendix B Project Description Forms
March 2018

Contact Person(s):
Dave Spiegelberg, El Dorado County Department of Transportation, dave.spiegelberg@edcgov.us , (530) 621-6077 Brendan Ferry, El Dorado County Principal Planner, brendan.ferry@edcgov.us , (530) 573-7905
Key References:
NA
Supplemental Information (e.g., Project Webpage or equivalent):
NA

¹DAC = Disadvantaged Communities
EDA = Economically Distressed Area

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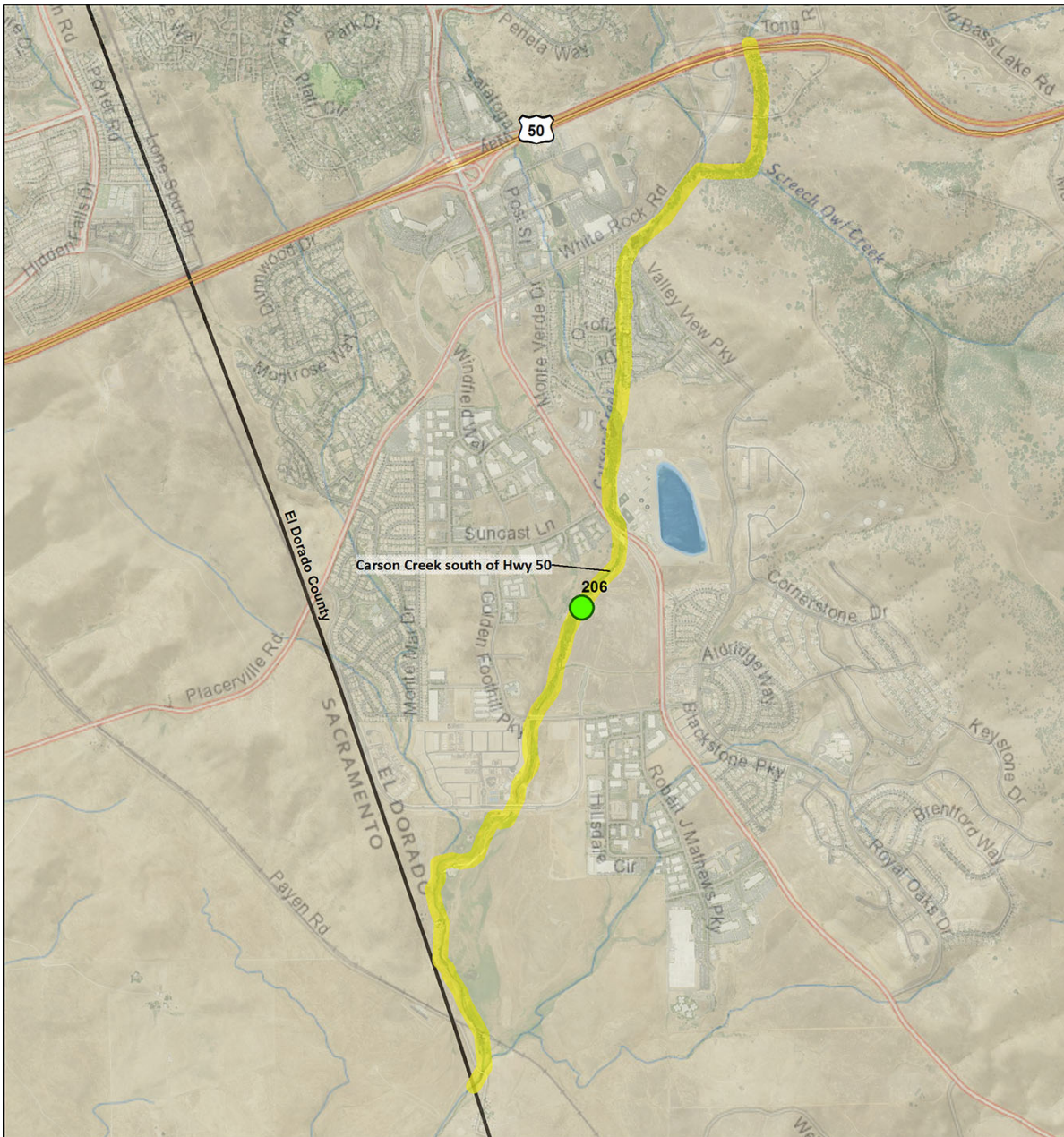
Appendix B Project Description Forms
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B.3.3 206 Carson Creek Restoration

Project/Program Name	<i>Carson Creek Restoration</i>		
Responsible Agency	El Dorado County- Community Development Services		
Partner Agency (ies)	NA		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$653,305.70		
Unit Cost	\$129,135/river mile		
Site Coordinates	Latitude: 38.632329°	Longitude: -121.06341°	
Description			
<p>The proposed project aims to restore Carson Creek just South of Highway 50. To restore the creek to a stable condition the project will entail removing sediment loads, cleanout culverts, stabilizing the bank, headcutting, controlling the number of invasive weeds present, managing the amount of beaver dams present, and do vector control to reduce the breeding grounds for mosquitos. Since there are impervious areas within the Carson Creek watershed, they can be routed away from the creek and to the El Dorado Irrigation District reclaimed water ponds (i.e., up-gradient apartments along Valley View Parkway) as another component of this project. Additionally, there are opportunities for impervious area disconnection from the creek. Swales will be added along the creek wherever there is a road nearby if possible, so stormwater runoff can be treated and not impact the water quality of the creek. Trees and other vegetation will be planted along the creek to stabilize the banks and prevent erosion, nutrient, and sediment inputs. Low impact development (LID) approaches will be applied for this project. Approximately 26,712 ft will be restored-Google Earth Approximation.</p>			
Component			
Watershed Management			
Potential Challenges			
Climatological predictions may affect the sizing or effectiveness of this project.			
Conceptual GIS Map of Site			

WEST SLOPE STORMWATER RESOURCE PLAN

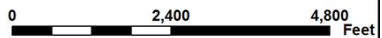
Appendix B Project Description Forms
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ID 206 - Carson Creek Restoration

- Project Type**
- Watershed Management
 - Linear Project Limits
 - Project Limits

Project Component:
Watershed Management
Latitude: 38.632329
Longitude: -121.06341



Projection: CA SP II NAD83
Background: NAIP (2016)
Prepared: December, 2017

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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		El Dorado County- Community Development Services
Stage of Development		
<input checked="" type="checkbox"/> Conceptual		<input type="checkbox"/> Planning
<input type="checkbox"/> Design		<input type="checkbox"/> Construction
		<input type="checkbox"/> Pre-Design
		<input type="checkbox"/> Other
Expected Project Timeline	Begin: 2020, End: 2021	
Project Triggers	An increase in the degradation of water quality	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program U.S. Army Corps of Engineers (USACE) - Aquatic Ecosystem Restoration (CAP Section 206) U.S. Army Corps of Engineers (USACE) - Snagging and Clearing for Flood Control (CAP Section 208)		

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Appendix B Project Description Forms
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Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality while contributing to compliance with applicable permit and/or TMDL requirements	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply through groundwater management and/or runoff capture and use	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas
<p>This restoration project will restore portions of Carson Creek to satisfactory conditions. With less erosion, less sediment inputs, and less nutrient inputs water quality conditions will improve and the local environment and habitat of the aquatic species will be enhanced. Since Carson Creek will be restored this project will reestablish the natural hydrograph of the creek. Since swales will be constructed near roads, natural drainage systems will be introduced, and the filtration and treatment of stormwater runoff will result which will contribute towards reducing non-point source pollution. In addition this project will create job opportunities for people to clean up the creek in addition to providing opportunities for the community to get involved and learn about the restoration process and the significance it has. Once the creek has been restored, the area will be enhanced and will provide a recreational area for the community to enjoy.</p>		
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain project is in conceptual stage, not added to IRWM currently__	
Project Benefits a DAC/EDA: ¹	<input type="checkbox"/> Yes, which one ____ <input checked="" type="checkbox"/> No _____	
CEQA Compliance:	<input checked="" type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> <u>No, explain project is in conceptual stage, no environmental documentation is completed yet</u>	

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Appendix B Project Description Forms
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Contact Person(s):
Brendan Ferry, El Dorado County Principal Planner, brendan.ferry@edcgov.us, (530) 573-7905
Key References:
NA
Supplemental Information (e.g., Project Webpage or equivalent):
Project webpage, as applicable NA

¹DAC = Disadvantaged Communities
EDA = Economically Distressed Area

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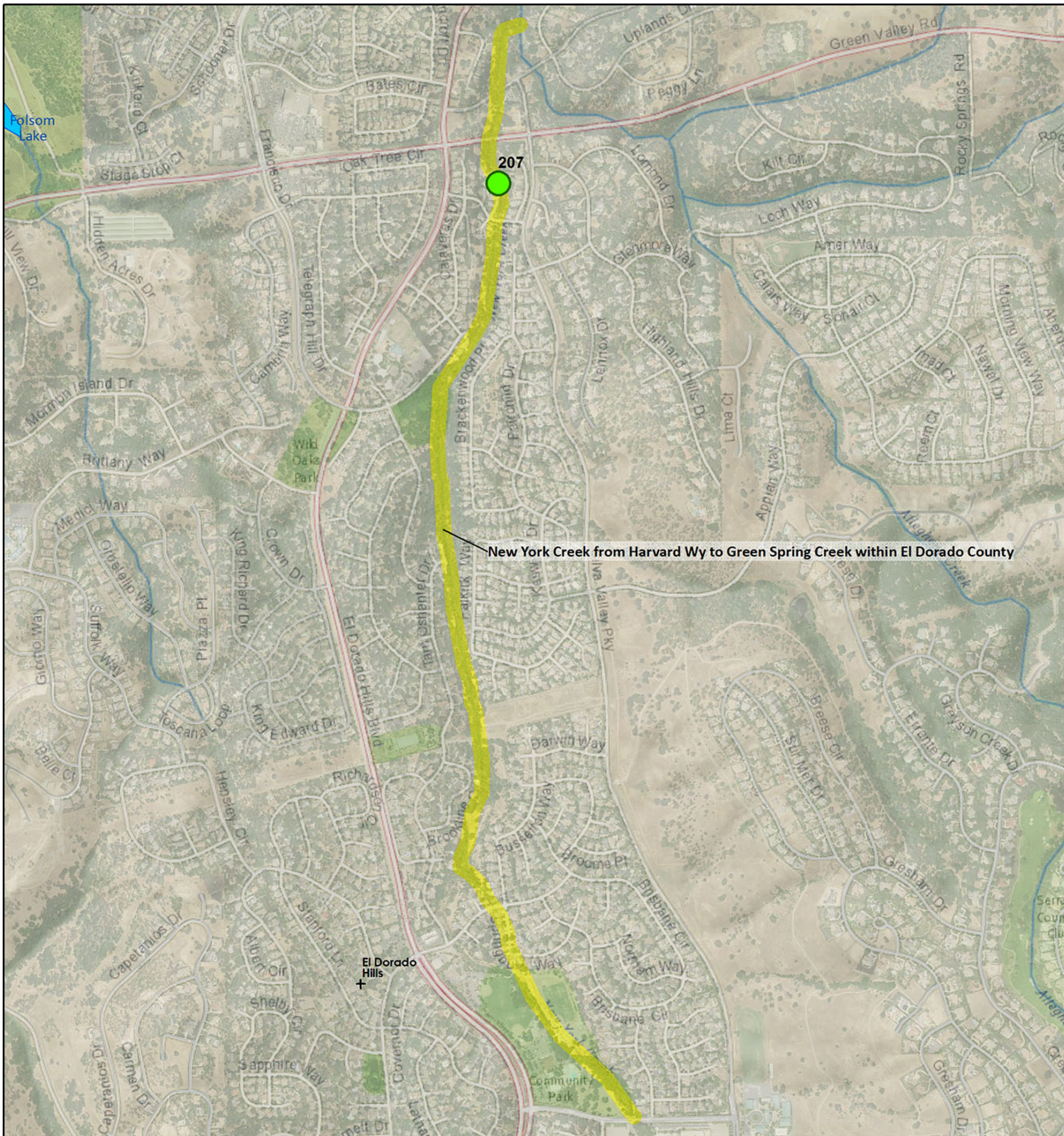
Appendix B Project Description Forms
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B.3.4 207 New York Creek Restoration

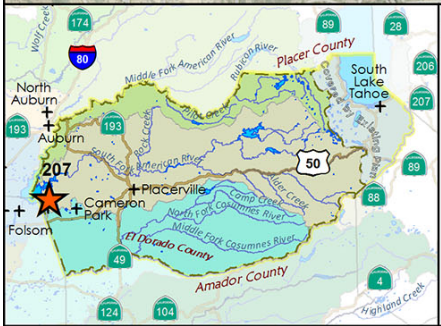
Project/Program Name	<i>New York Creek Restoration</i>		
Responsible Agency	El Dorado County- Community Development Services		
Partner Agency (ies)	El Dorado Hills Community Service District		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$307,673.92		
Unit Cost	\$129,135/river mile		
Site Coordinates	Latitude: 38.708984°	Longitude: -121.076639°	
Description			
<p>This is a restoration project that is to take place on New York Creek, just North of highway 50. To restore portions of the creek to a stable condition the project will entail removing sediment loads, stabilizing the bank, headcutting, controlling the number of invasive weeds present, managing the number of beaver dams present (dam removal), and do vector control to reduce the breeding grounds for mosquitos. Additionally, impervious area disconnections and the cleaning of culverts will occur. Stormwater will be treated and captured at various locations along the creek with ecologically based stormwater treatment technologies. Oak Ridge High School, Jackson Elementary School, Art Weisberg Park, and El Dorado Hills Community Park and Ballfields are some locations where ecologically based stormwater treatment technologies could be found. At the listed locations and various spots along the creek, if possible, there will be bioretention and rain garden systems that will collect stormwater runoff, treat it, and then filtrate it back to the ground. Swales will be added along the creek wherever there is a road nearby or in close proximity to an urbanized area if possible, so stormwater runoff can be treated and not impact the water quality of the creek. Trees and other vegetation will be planted along the creek to stabilize the banks and prevent erosion, nutrient, and sediment inputs. Oak Ridge High School, Jackson Elementary School, Art Weisberg Park, and El Dorado Hills Community Park and Ballfields may create and oversee opportunities for the public to participate and allow them to plant vegetation along the creek to participate in the restoration efforts. Low impact development (LID) approaches will be applied for this project. Approximately 12,580 ft will be restored-Google Earth Approximation.</p>			
Component			
Watershed Management			
Potential Challenges			
Climatological predictions may affect the sizing or effectiveness of this project.			
Conceptual GIS Map of Site			

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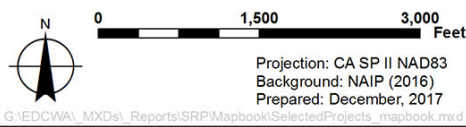
New York Creek from Harvard Wy to Green Spring Creek within El Dorado County



ID 207 - New York Creek Restoration

- Project Type**
- Watershed Management
 - Linear Project Limits
 - Project Limits

Project Component:
Watershed Management
Latitude: 38.708984
Longitude: -121.076639



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Appendix B Project Description Forms
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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		El Dorado County- Community Development Services, El Dorado Hills Community Service District
Stage of Development		
<input checked="" type="checkbox"/> Conceptual <input type="checkbox"/> Planning <input type="checkbox"/> Pre-Design		<input type="checkbox"/> Design <input type="checkbox"/> Construction <input type="checkbox"/> Other
Expected Project Timeline	Begin: 2020, End: 2021	
Project Triggers	An increase in the degradation of water quality	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program U.S. Army Corps of Engineers (USACE) - Aquatic Ecosystem Restoration (CAP Section 206) U.S. Army Corps of Engineers (USACE) - Snagging and Clearing for Flood Control (CAP Section 208)		

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Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas
This restoration project will restore New York Creek to satisfactory conditions. The reduction of sediment loads, nutrient inputs, and erosion will improve water quality conditions and will improve the local environment and habitat of the aquatic species. Since swales will be constructed near roads, natural drainage systems will be introduced, and the filtration and treatment of stormwater runoff will result which will contribute towards reducing non-point source pollution. Since New York will be restored this project will reestablish the natural hydrograph of the creek. In addition this project will create job opportunities for people to clean up the creek in addition to providing opportunities for the community to get involved and learn about the restoration process and the significance it has. Once the creek has been restored, the area will be enhanced and will provide a recreational area for the community to enjoy.		
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, not added to IRWM currently</u>	
Project Benefits a DAC/EDA: ¹	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No _____	

WEST SLOPE STORMWATER RESOURCE PLAN

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CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, no environmental documentation is completed yet</u>
Contact Person(s):	
	Brendan Ferry, El Dorado County Principal Planner, brendan.ferry@edcgov.us , (530) 573-7905
Key References:	
	NA
Supplemental Information (e.g., Project Webpage or equivalent):	
	NA

¹DAC = Disadvantaged Communities
 EDA = Economically Distressed Area

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WEST SLOPE STORMWATER RESOURCE PLAN

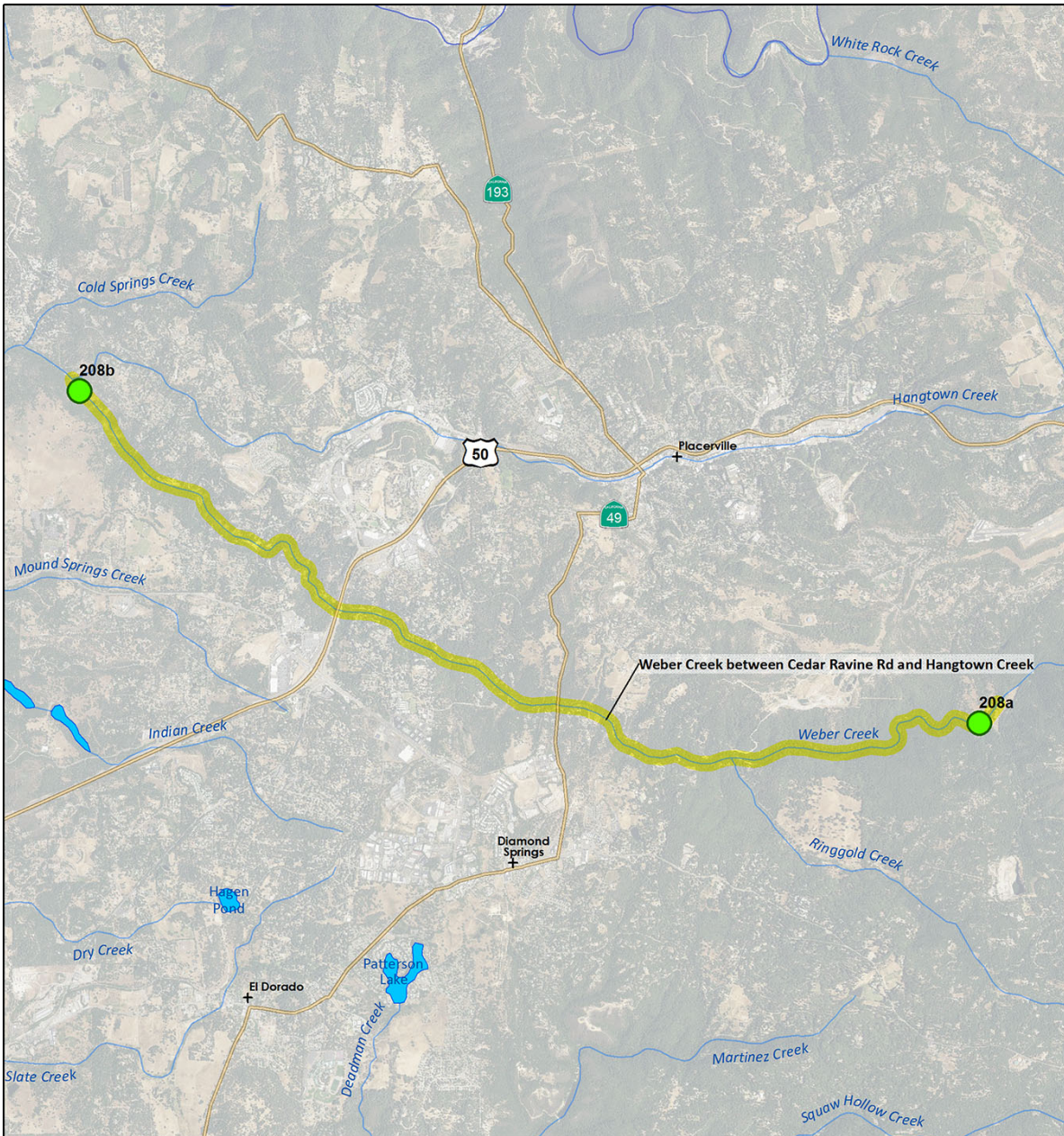
Appendix B Project Description Forms
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B.3.5 208 Weber Creek Restoration

Project/Program Name	<i>Weber Creek Restoration</i>		
Responsible Agency	El Dorado County- Community Development Services		
Partner Agency (ies)	El Dorado Hills Community Service District		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$883,767.66		
Unit Cost	\$129,135/river mile		
Site Coordinates	Latitude: On Weber Creek in between the following points 1) 38.706046° 2) 38.736014°	Longitude: On Weber Creek in between the following points 1) -120.765303° 2) -120.864891°	
Description			
<p>The proposed project aims to provide slope stabilization and identify and reduce sources of urban pollutants into Weber Creek between Cedar Ravine Rd. and the confluence of Hangtown Creek. Ultimately the project will aim to stabilize slopes and creek banks to reduce un-natural sediment loads and hydromodification as well as reduce the potential of urban pollutants from entering the creek or its tributaries. Bank stabilization will be accomplished by planting trees and native vegetation. The reduction of urban pollutants will be accomplished by placing swales along the creek and its tributaries in areas where it is urbanized or in proximity to a road, if possible. Low impact development (LID) approaches will be applied for this project. Approximately 36,135 ft of restoration-Google Earth Approximation.</p>			
Component			
Watershed Management			
Potential Challenges			
Climatological predictions may affect the sizing or effectiveness of this project.			
Conceptual GIS Map of Site			

WEST SLOPE STORMWATER RESOURCE PLAN

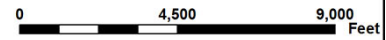
Appendix B Project Description Forms
 March 2018



ID 208 - Weber Creek Restoration

- Project Type**
- Watershed Management
 - Linear Project Limits
 - Project Limits

Project Component:
 Watershed Management
 Latitude: 38.706046
 Longitude: -120.765303



Projection: CA SP II NAD83
 Background: NAIP (2016)
 Prepared: December, 2017

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WEST SLOPE STORMWATER RESOURCE PLAN

Appendix B Project Description Forms
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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		El Dorado County- Community Development Services, City of Placerville and California Department of Transportation, El Dorado Hills Community Service District
Stage of Development		
<input checked="" type="checkbox"/> Conceptual <input type="checkbox"/> Planning <input type="checkbox"/> Pre-Design		<input type="checkbox"/> Design <input type="checkbox"/> Construction <input type="checkbox"/> Other
Expected Project Timeline	Begin: 2020, End: 2021	
Project Triggers	An increase in the degradation of water quality	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program U.S. Army Corps of Engineers (USACE) - Aquatic Ecosystem Restoration (CAP Section 206) U.S. Army Corps of Engineers (USACE) - Snagging and Clearing for Flood Control (CAP Section 208)		

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Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas

This restoration project will restore Weber Creek to satisfactory conditions. With less erosion, less sediment inputs, and less nutrient inputs the water quality conditions will improve and the local environment and habitat of the aquatic species will be enhanced. Since swales will be constructed near roads, natural drainage systems will be introduced, and the filtration and treatment of stormwater runoff will result which will contribute towards reducing non-point source pollution. Since Weber Creek will be restored this project will reestablish the natural hydrograph of the creek. In addition, this project will create job opportunities for people to clean up the creek in addition to providing opportunities for the community to get involved and learn about the restoration process and the significance it has. Once the creek has been restored, the area will be enhanced and will provide a recreational area for the community to enjoy.

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Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, not added to IRWM currently</u>
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one <u>Project falls under the 2010-2014 DAC Tracts as identified by the CA Department of Water Resources</u> <input type="checkbox"/> No _____
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, no environmental documentation is completed yet</u>
Contact Person(s):	
Brendan Ferry, El Dorado County Principal Planner, brendan.ferry@edcgov.us , (530) 573-7905	
Key References:	
NA	
Supplemental Information (e.g., Project Webpage or equivalent):	
Project webpage, as applicable NA	

¹DAC = Disadvantaged Communities
EDA = Economically Distressed Area

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B.3.6 209 King Fire Watershed Restoration & Reforestation Project

Project/Program Name	<i>King Fire Watershed Restoration & Reforestation Project</i>		
Responsible Agency	El Dorado County & Georgetown Divide Resource Conservation Districts		
Partner Agency (ies)	CALFIRE, Caltrans and Private Landowners		
Net Yield	Normal Year: <i>NA</i>	Wet Year: <i>NA</i>	Dry Year: <i>NA</i>
Estimated Cost	Capital: \$1,927,800		
Unit Cost	\$1,377/Acre		
Site Coordinates	Latitude: 38.809890°	Longitude: -120.587890°	
Description			
<p>The overall objective of the King Fire Restoration and Reforestation Project is to begin the process of reversing the ecological, economic, environmental, aesthetic and social impacts of the King Fire. Specific objectives include: 1) treat private lands affected by the King Fire to reduce the potential for wild fire in the future by removing accumulated debris and dead trees; 2) conduct site preparation and planting to re-establish forest cover on the private lands; and 3) increase potential carbon sequestration and achieve greenhouse gas emissions reduction through the reforestation of the burned area. Ultimately, the goal is to restore the forest ecosystem that was destroyed by the King Fire.</p> <p>Under this project only the private and nonindustrial land will be treated, covering approximately 1,400 acres.</p> <p>Purpose/Need of Project:</p> <p>Reduce risk from falling dead, dying and damaged trees that pose a significant safety concern to forest visitors and workers, and create a hazard to private property, infrastructure, and cultural resources</p> <p>Remove dead trees in strategic fire management areas to improve the agency's ability to manage and control future fires</p> <p>Actively manage severely burned areas to facilitate restoration and resilience</p> <p>Balance active management with the retention of important attributes of post-fire habitat at the landscape scale and within treatment areas to support the diversity and abundance of species</p> <p>Expediently recover timber killed by the fire commensurate with available markets for the purpose of generating funds to offset the cost of restoration activities and contribute to societal needs for wood products.</p> <p>Promote scientific research to increase knowledge regarding the effects of large fires on the environment, how to reduce the risk of future fires, and how to restore resilient forests after fires.</p>			
Component			
Watershed Management			
Potential Challenges			
<p><i>Proposed salvage harvest in California spotted owl (CSO) territories would impact CSO foraging habitat and lead to loss of occupancy.</i></p> <p><i>Leaving large portions of the fire untreated results in a dangerously high fuel load in the form of snags and later brush growth and a high risk of future wildlife impacting private land, communities, and forest resources</i></p> <p><i>The proposed action fails to remove sufficient dead trees to reduce carbon emissions and plant sufficient new ones to increase carbon absorption resulting in net carbon emissions to the atmosphere</i></p>			

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Tree planning and herbicides will adversely impact the composition of early successional shrub, forb, and grass species of the post-fire habitat, thereby impacting the many species which require complex early seral forest.

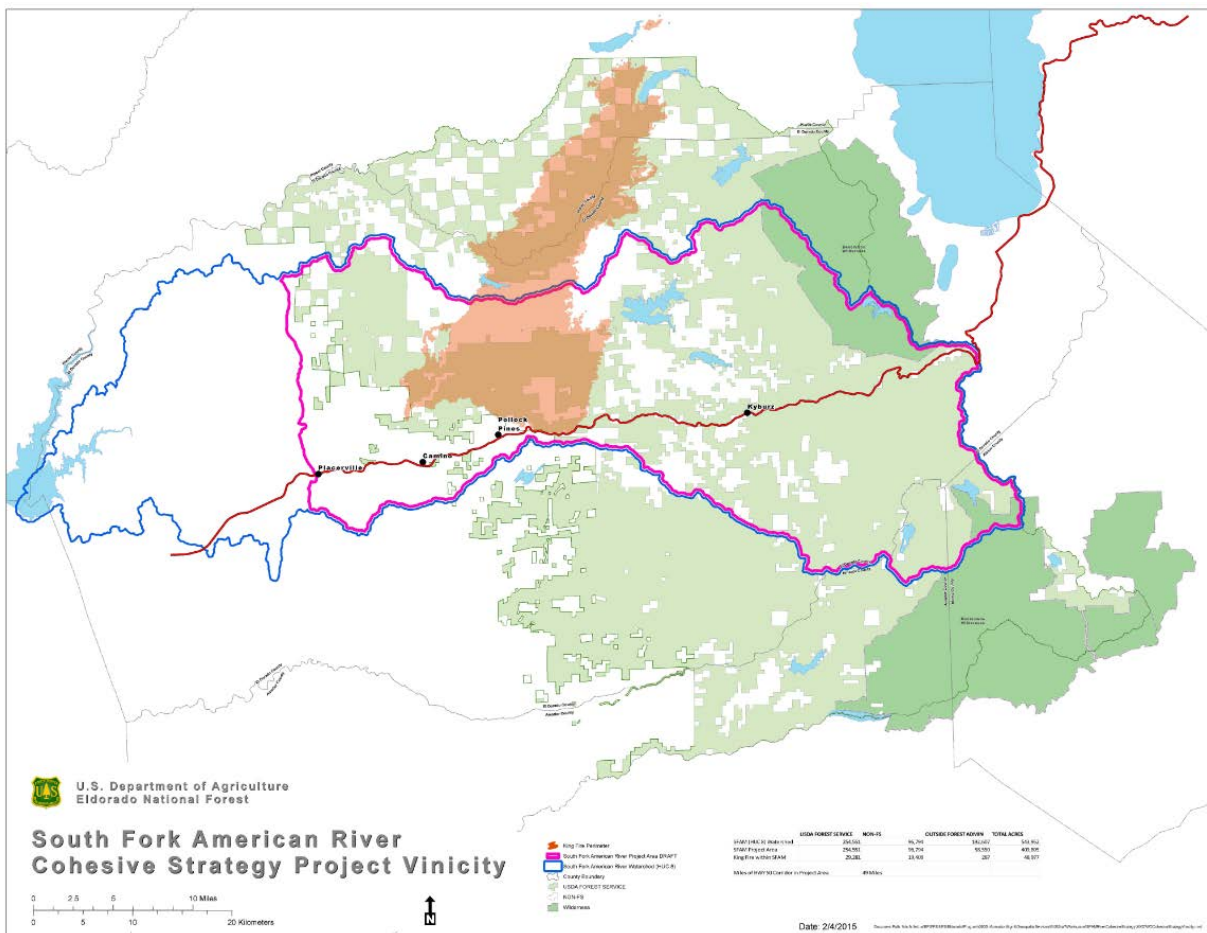
The proposed action will adversely affect black-backed woodpeckers and secondary cavity nesters by removing important intensely burned habitat created by the fire.

The proposed action has insufficient protection for water quality and aquatic habitat by proposing herbicides within RCAs and permitting log skidding within 150 feet of perennial and intermittent streams.

There is no ecological or economic justification to salvage log areas that burned at mixed severity within the Natural Range of Variation (NRV).

Conceptual GIS Map of Site

Project would occur within the area that was impacted by the King Fire in the County of El Dorado (orange area in the map).



https://www.fs.usda.gov/Internet/FSE_MEDIA/fseprd528765.jpg

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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input checked="" type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input checked="" type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		El Dorado County & Georgetown Divide Resource Conservation Districts, CALFIRE, Private Landowners, Caltrans
Stage of Development		
<input type="checkbox"/> Conceptual <input type="checkbox"/> Planning <input type="checkbox"/> Pre-Design <input type="checkbox"/> Design <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Other		
Expected Project Timeline	Begin: 2017, End: 2019	
Project Triggers	Under current implementation	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4): Watershed restoration (post fire)		
■ Primary ■ Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas

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<p>The methods used to estimate the GHG benefits of the project are contained within “Guidance on Methods for Evaluating GHG Emission Reductions for Programs in the CAL FIRE Greenhouse Gas Reduction Fund” dated March 4, 2015 (hereafter, Guidance). Specifically, the method employed for this project is described on p. 2-12 of that document. For a reforestation project the approach requires quantification of carbon stocks that will be removed during site preparation (emissions), estimates of emissions associated with equipment used in site preparation and projection of carbon stored in planted areas through use of the Carbon On Line Estimator (COLE). Net GHG benefits are obtained by subtracting emissions from future carbon storage. Water quality will be improved and the environment and local habitat will be enhanced with the restoration project. This project will create employment opportunities.</p>	
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>CABY IRWM not focused on post-fire restoration</u>
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one <u>Project Falls under the 2010-2014 DAC Block Groups as identified by the CA Department of Water Resources</u> <input type="checkbox"/> No _____
CEQA Compliance:	<input checked="" type="checkbox"/> Yes, explain <u>Completed in 2017</u> _____ <input type="checkbox"/> No, explain _____
Contact Person(s):	
Mark Egbert, District Manager at Georgetown Divide RCD, Mark.Egbert@ca.usda.gov , 530-295-5630	
Key References:	
King_Fire Informational Handout	
Supplemental Information (e.g., Project Webpage or equivalent):	
NA	

¹DAC = Disadvantaged Communities
 EDA = Economically Distressed Area

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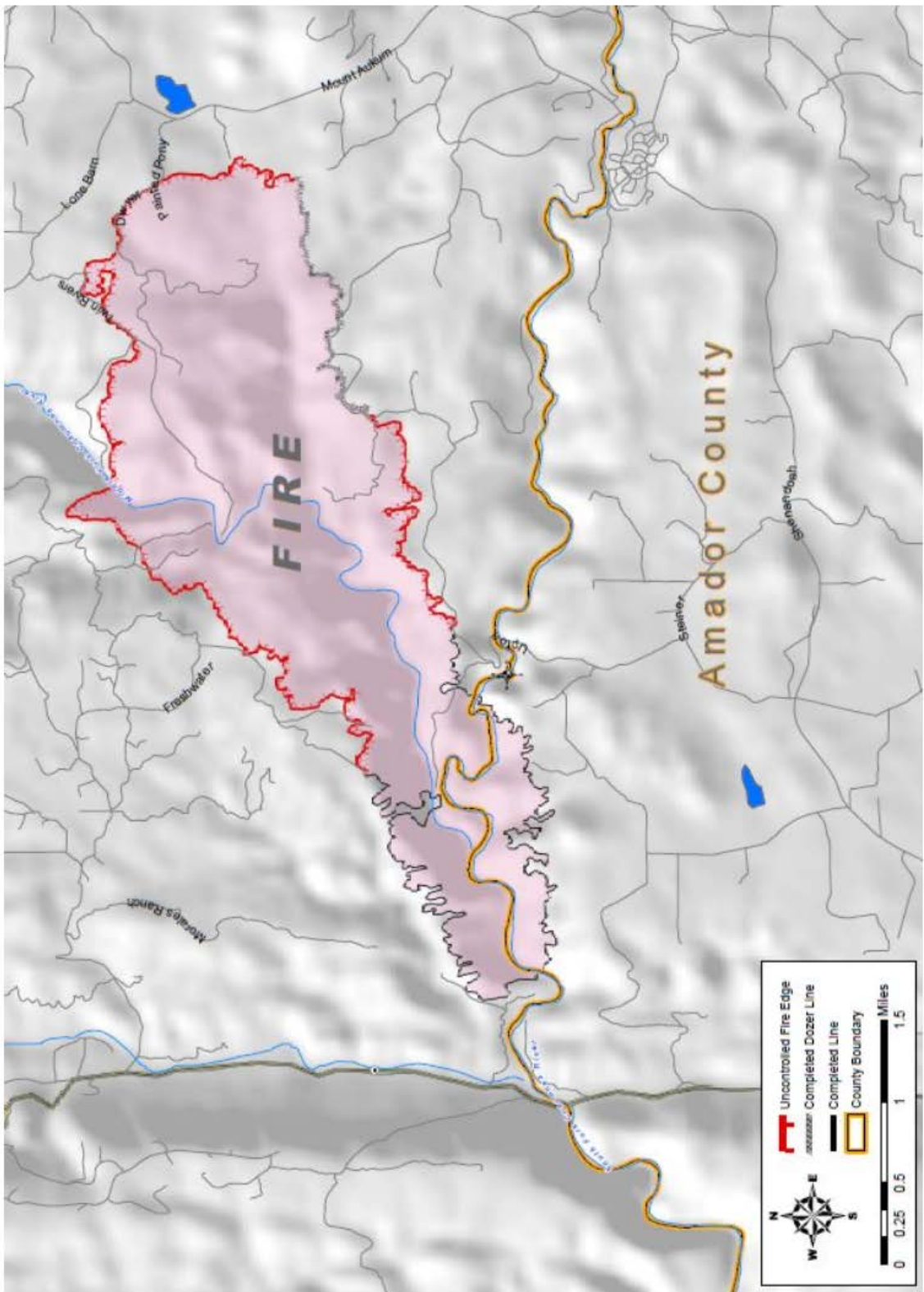
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B.3.7 210 Sand Fire Watershed Restoration & Reforestation Project

Project/Program Name	<i>Sand Fire Watershed Restoration & Reforestation Project</i>		
Responsible Agency	El Dorado County & Georgetown Divide Resource Conservation Districts		
Partner Agency (ies)	CALFIRE, Caltrans and Private Landowners		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$895,050		
Unit Cost	\$1,377/Acre		
Site Coordinates	Latitude: 38.567524	Longitude: -120.786782	
Description			
<p>The overall objective of the Sand Fire Restoration and Reforestation Project is to begin the process of reversing the ecological, economic, environmental, aesthetic and social impacts of the Sand Fire. Specific objectives include: 1) treat private lands affected by the Sand Fire to reduce the potential for wild fire in the future by removing accumulated debris and dead trees; 2) conduct site preparation and planting to re-establish forest cover on the private lands; and 3) increase potential carbon sequestration and achieve greenhouse gas emissions reduction through the reforestation of the burned area. Ultimately, the goal is to restore the forest ecosystem that was destroyed by the Sand Fire.</p> <p>Under this project only the private and nonindustrial land will be treated, covering approximately 650 acres. This project ties in with the Sand Ridge Rd paving project.</p>			
Component			
Watershed Management			
Potential Challenges			
Leaving large portions of the fire untreated results in a dangerously high fuel load in the form of snags and later brush growth and a high risk of future wildlife impacting private land, communities, and forest resources			
Conceptual GIS Map of Site			
Project would occur within the area that was impacted by the Sand Fire (pink area in the County of El Dorado).			

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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input checked="" type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input checked="" type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		El Dorado County & Georgetown Divide Resource Conservation Districts, CALFIRE, Private Landowners, Caltrans
Stage of Development		
<input type="checkbox"/> Conceptual <input type="checkbox"/> Planning <input type="checkbox"/> Pre-Design <input type="checkbox"/> Design <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Other		
Expected Project Timeline	Begin: 2017, End: 2019	
Project Triggers	Under current implementation	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Clean Water State Revolving Fund Program (CWSRF)		

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Stormwater Multi-Benefits (per SWRP Guidelines Table 4): Watershed restoration (post fire)		
■ Primary ■ Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas

The methods used to estimate the GHG benefits of the project are contained within “Guidance on Methods for Evaluating GHG Emission Reductions for Programs in the CAL FIRE Greenhouse Gas Reduction Fund” dated March 4, 2015 (hereafter, Guidance). Specifically, the method employed for this project is described on p. 2-12 of that document. For a reforestation project the approach requires quantification of carbon stocks that will be removed during site preparation (emissions), estimates of emissions associated with equipment used in site preparation and projection of carbon stored in planted areas through use of the Carbon On Line Estimator (COLE). Net GHG benefits are obtained by subtracting emissions from future carbon storage. Water quality will be improved and the environment and local habitat will be enhanced with the restoration project. This project will create job opportunities.

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Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>CABY IRWM not focused on post-fire restoration</u>
Project Benefits a DAC/EDA: ¹	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No _____
CEQA Compliance:	<input checked="" type="checkbox"/> Yes, explain <u>Completed 2017</u> <input type="checkbox"/> No, explain _____
Contact Person(s):	
Mark Egbert, District Manager of El Dorado County RCD, Mark.Egbert@ca.usda.gov , 530-295-5630	
Key References:	
Sand Fire Informational Handout	
Supplemental Information (e.g., Project Webpage or equivalent):	
NA	

¹DAC = Disadvantaged Communities
 EDA = Economically Distressed Area

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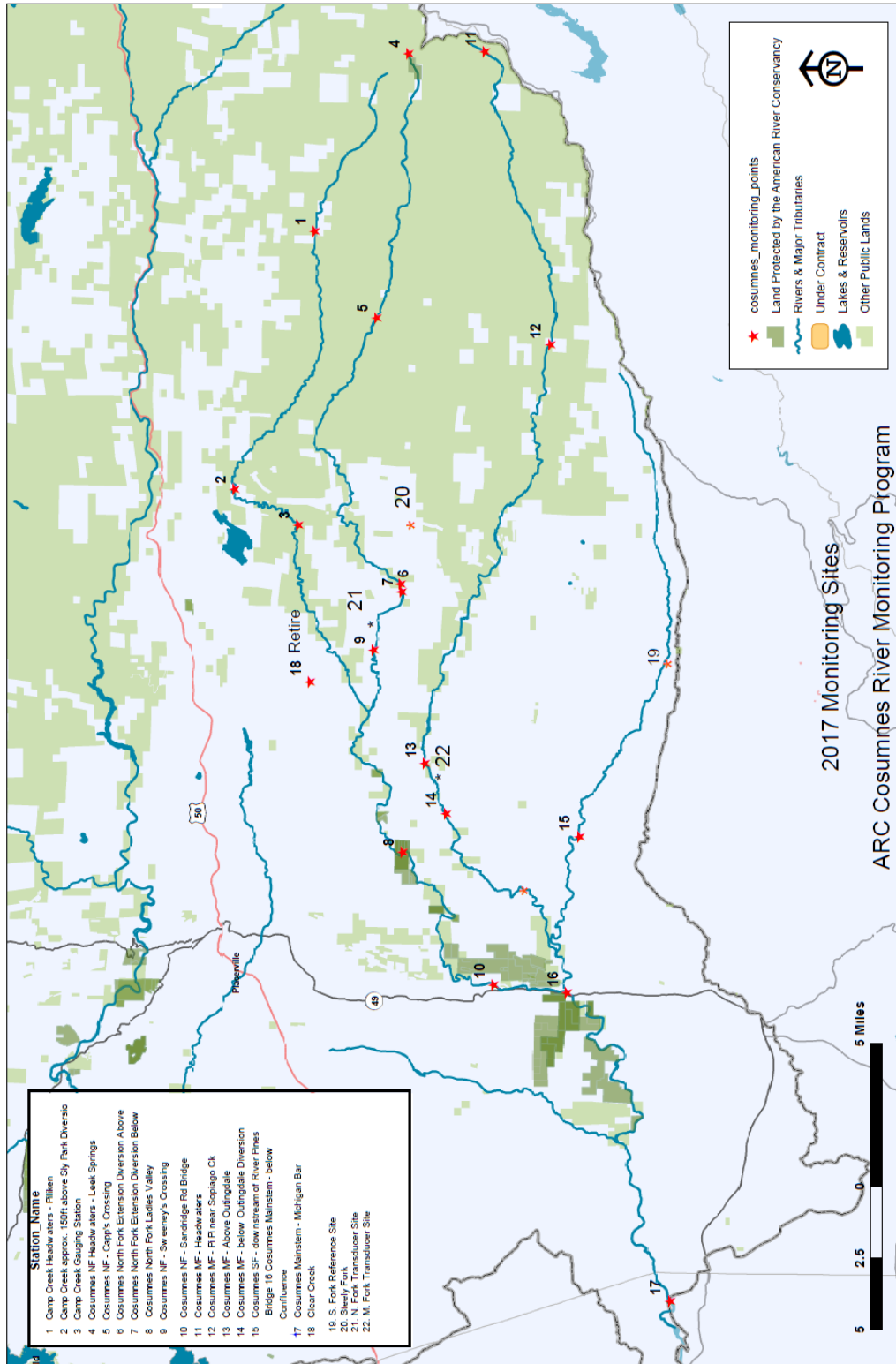
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B.3.8 212 Cosumnes River Water Quality Monitoring Program

Project/Program Name	<i>Cosumnes River Water Quality Monitoring Program</i>		
Responsible Agency	American River Conservancy (ARC)		
Partner Agency (ies)	U.S. Fish and Wildlife Service, UC Davis, UC Water		
Net Yield	Normal Year: N/A	Wet Year: N/A	Dry Year: N/A
Estimated Cost	Capital: Cost not calculated due to conceptual nature of project.		
Unit Cost	N/A		
Site Coordinates	Latitude: N/A, multiple areas county-wide	Longitude: N/A, multiple areas county-wide	
Description			
<p>The purpose of the ARC Cosumnes River Water Quality Monitoring Program is:</p> <ul style="list-style-type: none"> To conduct a long term monitoring program to assess and steward the Cosumnes River, to sustain its water supply, ecosystem, recreational, and cultural values. To evaluate the effectiveness of restoration and management practices (adaptive management) in the long term. To identify trends in water quality and changes due to climate change. To involve volunteers in a hands on process of monitoring and improving the watershed in their region. <p>ARC's CA Water Resources approved Cosumnes River Water Quality Monitoring Program was initiated in 2015. This proposal is to expand the program to include benthic macro invertebrate analysis to assess runoff impacts. The Program uses SWAMP protocols and is CEDEN compliant.</p> <p>Program funding to date has been provided by a Trout Unlimited grant and private contributions. Over 50 trained Citizen Scientists participate in the monitoring effort, donating thousands of volunteer hours.</p> <p>The Program currently monitors eighteen sites in the upper watershed, and is coordinated with lower watershed monitoring by Fishery Foundation and UC Water. Both programs are part of a watershed scale Cosumnes River Science Program with the co-objectives of water supply and ecosystem health.</p>			
Component			
Watershed Management			
Potential Challenges			
Benthic Macro Invertebrate analysis cost			
Conceptual GIS Map of Site			

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Purpose(s)	Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input checked="" type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input checked="" type="checkbox"/> Increase climate resilience <input checked="" type="checkbox"/> Increase community awareness for sustainable water	American River Conservancy, U.S. Fish and Wildlife Service, UC Davis, UC Water, river communities, and NGO partners
Stage of Development	
<input type="checkbox"/> Conceptual <input type="checkbox"/> Planning <input type="checkbox"/> Pre-Design <input type="checkbox"/> Design <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Other	
<p>ARC's CA Water Resources approved Cosumnes River Water Quality Monitoring Program was initiated in 2015. This application is to expand the program to include benthic macro invertebrate analysis to assess runoff impacts. The Program uses SWAMP protocols and is CEDEN compliant.</p>	
Expected Project Timeline	Begin: 2015, End: 2030
Project Triggers	<p>The Cosumnes River provides water for municipal and agricultural uses for the communities of Placerville, Pollock Pines, Grizzly Flats, Somerset, Fairplay, Outingdale, Happy Valley, Sand Ridge, River Pines, Shenandoah Valley, Plymouth, Gold Beach, the Highway 16 corridor, Rancho Murieta, Omochumne Hartnell Water District, Sloughhouse, Wilton, Elk Grove, Galt, Clay and Galt Irrigation Districts, and the agricultural properties and ecosystems at the Cosumnes Preserve. It is the last live connection to the Delta, providing key nutrients and geomorphic inputs. It supports a number of threatened and endangered species, including giant garter snake, Swainson's Hawk, Great Gray Owl, Greater and Lesser Sandhill Crane, Chinook Salmon, Western Pond Turtle, to name just a few. It has a unique, wild beauty and has previously been nominated for wild and scenic status. It is home to recreational activities of hiking, angling, swimming, rock climbing, birding, and Class V kayaking, and connecting with nature. It is culturally rich. All of the resources provided by the Cosumnes River depend on good water quality and adequate flows.</p> <p>Good quality information is needed to understand changes in flow and water quality due to runoff, land use changes, road development, and climate change; to identify and monitor win/win, multi-benefit projects; and provide information for adaptive management.</p> <p>The Program currently monitors eighteen sites in the upper watershed, and is coordinated with lower watershed monitoring by Fishery Foundation and UC Water. Both programs are part of a watershed scale Cosumnes River Science Program with the co-objectives of water supply and ecosystem health.</p> <p>The Monitoring Program engages over 50 Citizen Scientist volunteers each year, and benefits from a multi-agency Technical Advisory Committee.</p>
Potentially Applicable Federal and State Programs for Technical and Financial Assistance	
<p>California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program</p> <p>California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Clean Water State Revolving Fund Program (CWSRF)</p>	

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Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas
This project aims at monitoring the Cosumnes River which will help provide ecosystem benefits in the longer term, support recreation, and enhance cultural values. This project will also benefit the community since it involves volunteers in a hands on process of monitoring and improving the watershed in their region. Through this hands on process, the public is being educated on issues that affect the integrity of water bodies while also learning about hydrology and watershed management. This project will be dependent on the volunteers.		
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain the <u>CABY Plan is currently being updated and is not yet at the stage for accepting new project proposals for inclusion in the Plan</u>	
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one <u>Outingdale and Gold Beach</u> _____ <input type="checkbox"/> No _____	
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>Not applicable</u>	
Contact Person(s):		
Elena DeLacy, Stewardship Director at the American River Conservancy, elena@arconservancy.org , (530) 621-1224 Melinda Frost-Hurzel, Cosumnes Coalition, Melinda@cosumnescoalition.org		

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Key References:
NA
Supplemental Information (e.g., Project Webpage or equivalent):
http://www.cosumnescoalition.org/science.html

¹DAC = Disadvantaged Communities
EDA = Economically Distressed Area

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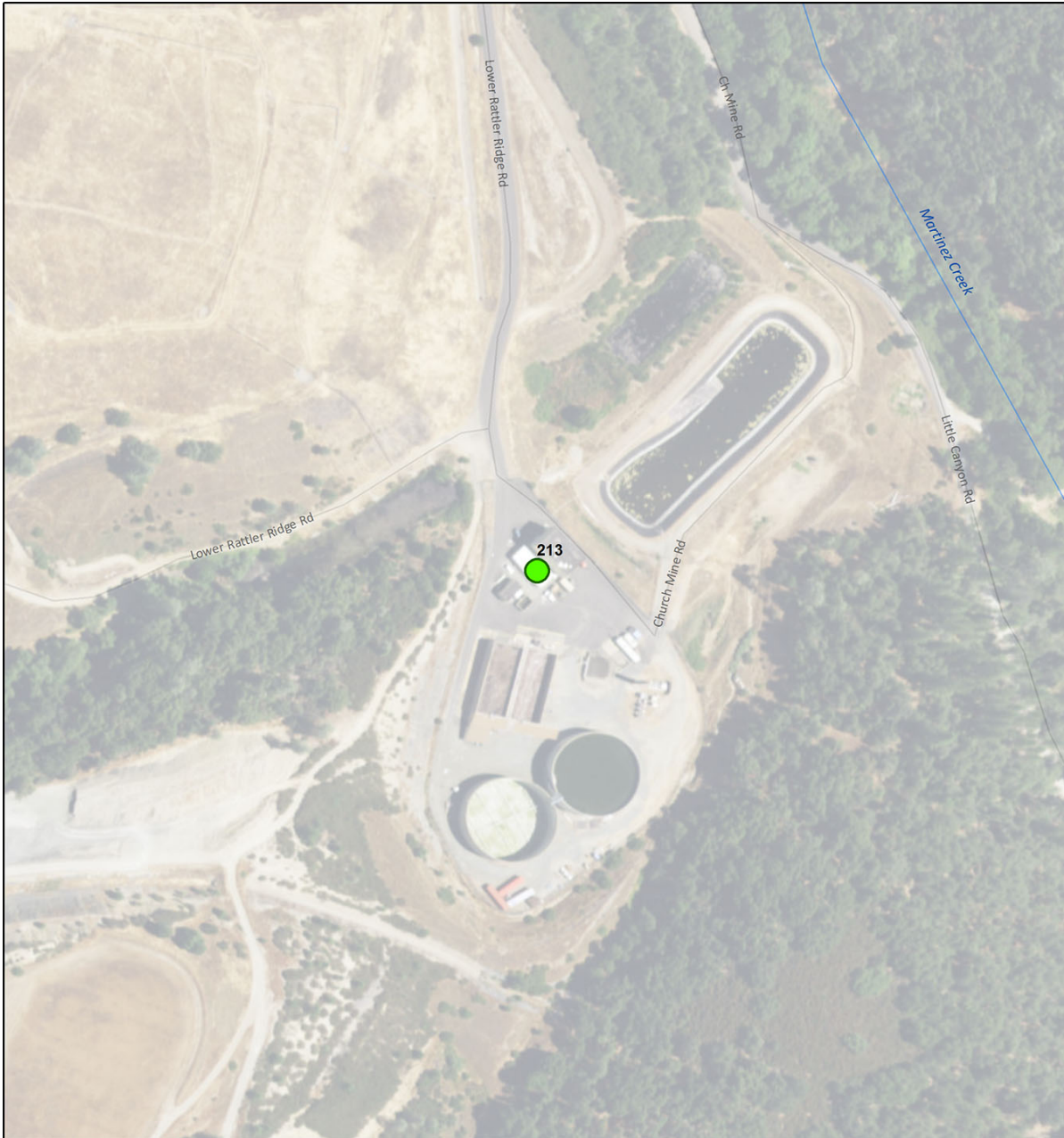
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B.3.9 213 Anaerobic Digestion System at Union Mine WWTP

Project/Program Name	<i>Anaerobic Digestion System at Union Mine WWTP</i>		
Responsible Agency	El Dorado County Department of Environmental Management		
Partner Agency (ies)	NA		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: Cost not calculated due to conceptual nature of project		
Unit Cost	NA		
Site Coordinates	Latitude: 38.646996°	Longitude: -120.827371°	
Description			
<p>The proposed conceptual project includes constructing an anaerobic digestion system that will break down organic matter and sewage products. The proposed project will be found at the Union Mine Waste Water Treatment Plant or another unidentified location in the County of El Dorado where waste from the National Forest, the County Ag industry, commercial businesses, County residents, and the waste water treatment plant will be processed to generate compressed natural gas that can be used as a fuel, effluent that can be used for agricultural application, and biogas that can be converted to electricity. The generated electricity could be used on site or sold to PG&E or SMUD.</p>			
Component			
Watershed Management			
Potential Challenges			
<p>(List challenges in bullets)</p> <ul style="list-style-type: none"> Site Location Funding Permitting Community disapproval 			
Conceptual GIS Map of Site			

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ID 213 - Anaerobic Digestion System at Union Mine WWTP

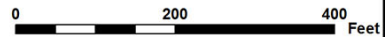
Project Type

● Watershed Management

■ Linear Project Limits

■ Project Limits

Project Component:
Watershed Management
Latitude: 38.646996
Longitude: -120.827371



Projection: CA SP II NAD83
Background: NAIP (2016)
Prepared: December, 2017

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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input checked="" type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		El Dorado County Department of Environmental Management
Stage of Development		
<input checked="" type="checkbox"/> Conceptual		<input type="checkbox"/> Planning
<input type="checkbox"/> Design		<input type="checkbox"/> Construction
		<input type="checkbox"/> Pre-Design
		<input type="checkbox"/> Other
Expected Project Timeline	Begin: 2020, End: 2021 Environmental Management would like to see an anaerobic digestion system added to the County's organic waste processing infrastructure available within El Dorado County. We are pursuing possible leads and funding opportunities, but at this point, there is no projected project timeline.	
Project Triggers	High support in creating an anaerobic digestion system	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Clean Water State Revolving Fund Program (CWSRF).		

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Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas

Since the National Forest, the County Agriculture industry, commercial businesses, County residents, and the waste water treatment plants will be sending waste to an anaerobic digestion system, non-point source pollution will be reduced as the likelihood of the amount of debris, organic matter, and solid waste that makes its way into local water sources will be reduced. Creating an anaerobic digestion system will create employment opportunities. Additionally, this project will also encourage community involvement.

Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>At this point, this project is conceptual</u>
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one <u>Project found in 2010-2014 DAC Tracts as identified by the CA Department of Water Resources</u> <input type="checkbox"/> No _____
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain _____

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Contact Person(s):
Amy Velasco, County of El Dorado, Community Development Services, Environmental Management Department, Supervising Environmental Health Specialist, amy.velasco@edcgov.us , (530) 621-6665 Brendan Ferry, El Dorado County Principal Planner, brendan.ferry@edcgov.us , (530) 573-7905
Key References:
El Dorado County Solid Waste Management Plan: -Strategy 3.6 - Plan for Conversion Technologies if Economically and Operationally Feasible
Supplemental Information (e.g., Project Webpage or equivalent):
NA

¹DAC = Disadvantaged Communities
EDA = Economically Distressed Area

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B.3.10 214 In-Vessel Composting System at Union Mine Landfill or MRF

Project/Program Name	<i>In-Vessel Composting System at Union Mine Landfill or MRF</i>		
Responsible Agency	El Dorado County Department of Environmental Management		
Partner Agency (ies)	NA		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: Cost not calculated due to conceptual nature of project.		
Unit Cost	NA		
Site Coordinates	Latitude: 38.727779° (El Dorado County Department of Environmental Management)	Longitude: 120.829955° (El Dorado County Department of Environmental Management)	
Description			
<p>The proposed conceptual project includes the construction of one or more in-vessel composting system(s). Proposed project locations include the El Dorado Disposal and South Tahoe Refuses Material Recovery Facilities (MRF) and/or Union Mine Landfill where organic waste from commercial businesses and County residents will be processed to create compost. The compost that is created may then be used to build healthy soil that can be used on stormwater projects. The compost that will be generated can be used to create the grass swales and the grass filter stripes. Using healthy soil will contribute to having a clean and healthy environment. Healthy soil that is rich in organic matter, such as compost, will help prevent flooding, will help filter pollutants, will help store water, and help store nutrients for plants to use.</p>			
Component			
Watershed Management			
Potential Challenges			
<p>Siting (limited space on proposed sites) Funding Permitting Community disapproval</p>			
Conceptual GIS Map of Site			
NA, no map is available as there is no determined location of the project at the moment			
Purpose(s)		Key Stakeholders	
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input checked="" type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		El Dorado County Department of Environmental Management, El Dorado Disposal and South Tahoe Refuse	

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Stage of Development		
<input checked="" type="checkbox"/> Conceptual	<input type="checkbox"/> Planning	<input type="checkbox"/> Pre-Design
<input type="checkbox"/> Design	<input type="checkbox"/> Construction	<input type="checkbox"/> Other
Expected Project Timeline	Begin: 2020, End: 2021	
Project Triggers	High support to create an in vessel composting system	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Clean Water State Revolving Fund Program (CWSRF)		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas
<p>Since commercial businesses and County residential organic waste will be processed in an in-vessel composting system, non-point source pollution will be reduced as the likelihood of the amount of debris, organic matter, and solid waste that makes its way into local water sources will be reduced. The addition of compost into the soil that is used to create grass swales and grass filter stripes will contribute towards reducing flood risks, reducing non-point source pollution and increasing the filtration and treatment of the existing soil. Creating an in-vessel digestion system</p>		

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will provide opportunities for the public to learn more about composting. Constructing the in-vessel composting system(s) will also create employment opportunities and engage the community.	
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, not added to IRWM currently</u>
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No _____
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain _____
Contact Person(s):	
Amy Velasco, County of El Dorado, Community Development Services, Environmental Management Department, Supervising Environmental Health Specialist, amy.velasco@edcgov.us , (530) 621-6665 Brendan Ferry, El Dorado County Principal Planner, brendan.ferry@edcgov.us , (530) 573-7905	
Key References:	
El Dorado County Solid Waste Management Plan: Strategy 3.4 - Implement a County Composting Facility Strategy 3.6 - Plan for Conversion Technologies if Economically and Operationally Feasible Strategy 3.7 - Enhance County Composting Facility to Manage Diverted Food Waste and Other Organics	
Supplemental Information (e.g., Project Webpage or equivalent):	
NA	

¹DAC = Disadvantaged Communities
 EDA = Economically Distressed Area

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B.3.11 215 Composting Facility within El Dorado County

Project/Program Name	<i>Compost Facility within El Dorado County</i>		
Responsible Agency	El Dorado County Department of Environmental Management		
Partner Agency (ies)	NA		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: Cost not calculated due to conceptual nature of project.		
Unit Cost	NA		
Site Coordinates	Latitude: 38.727779° (El Dorado County Department of Environmental Management)	Longitude: -120.829955° (El Dorado County Department of Environmental Management)	
Description			
The proposed conceptual project would include the construction of a compost facility within the County of El Dorado. This compost facility may take in waste from the National Forest, the County Agriculture industry, and current homeowners.			
Component			
Watershed Management			
Potential Challenges			
(List challenges in bullets) Siting Funding Permitting Community disapproval			
Conceptual GIS Map of Site			
No map available, project location is unknown at the moment			
Purpose(s)		Key Stakeholders	
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		El Dorado County Department of Environmental Management	
Stage of Development			
<input checked="" type="checkbox"/> Conceptual <input type="checkbox"/> Planning <input type="checkbox"/> Pre-Design			

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<input type="checkbox"/> Design <input type="checkbox"/> Construction <input type="checkbox"/> Other		
Expected Project Timeline	<i>Near or long-term (approximate years to implement).</i> Begin: 2020, End: 2025	
Project Triggers	<i>High support to create a compost facility in the County</i>	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Clean Water State Revolving Fund Program (CWSRF)		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
<input style="color: orange;" type="checkbox"/> Primary <input type="checkbox"/> Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
<i>Water Quality while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
<i>Water Supply through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas
Since the National Forest, the County Agriculture industry, commercial businesses, and County residents will send organics waste to a composting facility, non-point source pollution will be reduced as the likelihood of the amount of debris, organic matter, and solid waste that makes its way into local water sources will be reduced. Creating a composting facility will provide an opportunity for the public to learn more about composting. Constructing a composting facility will also create employment opportunities. Project will engage the community.		
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, not added to IRWM currently</u>	

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Project Benefits a DAC/EDA: ¹	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No _____
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, no environmental documentation is completed yet</u>
Contact Person(s):	
Amy Velasco, County of El Dorado, Community Development Services, Environmental Management Department, Supervising Environmental Health Specialist, amy.velasco@edcgov.us , (530) 621-6665 Brendan Ferry, El Dorado County Principal Planner, brendan.ferry@edcgov.us , (530) 573-7905	
Key References:	
<p>El Dorado County Solid Waste Management Plan:</p> <ul style="list-style-type: none"> - Strategy 3.4 - Implement a County Composting Facility - Strategy 3.6 - Plan for Conversion Technologies if Economically and Operationally Feasible - Strategy 3.7 - Enhance County Composting Facility to Manage Diverted Food Waste and Other Organics 	
Supplemental Information (e.g., Project Webpage or equivalent):	
NA	

¹DAC = Disadvantaged Communities
EDA = Economically Distressed Area

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B.3.12 217 Residual Lime Remediation near El Dorado Trail

Project/Program Name	<i>Residual Lime Remediation near El Dorado Trail</i>		
Responsible Agency	El Dorado County- Community Development Services		
Partner Agency (ies)	CVRWQCB		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: Cost not calculated due to conceptual nature of project.		
Unit Cost	NA		
Site Coordinates	Latitude: 38.700886°	Longitude: -120.815622°	
Description			
<p>This is a remediation and long-term water monitoring project set to occur near the El Dorado Trail that is next to the former Diamond Lime Plant. The piles of crushed lime rocks, lime kilns, and settling ponds were never cleaned up thoroughly. Consequently, there is high pH runoff that occurs along the trail that originates from the former Diamond Lime Plant. This project may be paired with the Diamond Springs Parkway Project.</p>			
Component			
Watershed Management			
Potential Challenges			
Funding Public Support			
Conceptual GIS Map of Site			

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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		El Dorado County- Community Development Services, CVRWQCB, private property owner, concerned citizens
Stage of Development		
<input checked="" type="checkbox"/> Conceptual		<input type="checkbox"/> Planning
<input type="checkbox"/> Design		<input type="checkbox"/> Construction
		<input type="checkbox"/> Pre-Design
		<input type="checkbox"/> Other
Expected Project Timeline	Begin: 2020, End: 2025	
Project Triggers	Increase in pH found in runoff	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Clean Water State Revolving Fund Program (CWSRF)		

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Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas

This is a remediation project that will ultimately help improve the water quality in the area where the major goal would be to reduce the pH of the runoff that is generated. If the pH is reduced and the source of contamination is contained, the local water systems, habitats and environment will be greatly improved. This remediation project can be used to educate the public on water contaminants and how they affect the ecosystem once present. Additionally, this project will have job opportunities and will help enhance the El Dorado Trail once the site has been remediated. The community will be engaged.

Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, not added to IRWM currently</u>
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one <u>Project found in 2010-2014 DAC Tracts as identified by the CA Department of Water Resources</u> <input type="checkbox"/> No _____
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain _____

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Contact Person(s):
Brendan Ferry, El Dorado County Principal Planner, brendan.ferry@edcgov.us , (530) 573-7905
Key References:
NA
Supplemental Information (e.g., Project Webpage or equivalent):
Project webpage, as applicable http://www.laketahoenews.net/2017/06/toxic-runoff-continues-percolate-edc/

¹DAC = Disadvantaged Communities
EDA = Economically Distressed Area

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B.3.13 218 Countywide Water Quality Monitoring

Project/Program Name	<i>County Wide Water Quality Monitoring</i>		
Responsible Agency	El Dorado County- Community Development Services		
Partner Agency (ies)	NA		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: Cost not calculated due to conceptual nature of project.		
Unit Cost	NA		
Site Coordinates	Latitude: 38.727779° (El Dorado County-Community Development Services)	Longitude: -120.829955° (El Dorado County-Community Development Services)	
Description			
<p>The primary focus of this project is to design a water quality monitoring data program for El Dorado County. The aim of this project will be to monitor the water quality of several creeks, specifically to monitor flow and constituent concentrations. This program would help monitor the impact of construction sites, existing developments and historical use analysis to determine the effects on local water bodies. The program will allow the development of baseline health condition of waterbodies throughout El Dorado County. With this baseline, the County can identify water quality problems and develop mitigation action plans to address those issues. The goals of water quality monitoring will depend on the type of project. For example:</p> <p>Monitoring goals for watershed treatment may include the following:</p> <ul style="list-style-type: none"> To find out when and where management measures are implemented and operational To determine whether management measures are working as planned To determine the degree of pollutant control achieved by the management measures To measure the pollutant contribution from areas where management measures are not implemented To discover unplanned activities that could affect project success. <p>Trend analysis and watershed effectiveness monitoring goals may include the following:</p> <ul style="list-style-type: none"> To document pre-implementation water quality conditions To measure changes in water quality due to implementation of management measures To develop information to guide changes in the implementation plan if water quality goals are not achieved To measure the pollutant removal efficiencies of specific management measures To measure water quality changes in sub-watersheds To document changes in pollutant load at the watershed outlet <p>Ultimately, this program aims to improve understanding of nonpoint source pollution and evaluate the effectiveness of watershed management projects designed to control nonpoint source pollution.</p>			
Component			
Watershed Management			
Potential Challenges			
Climatological predictions may affect the sizing or effectiveness of this project.			
Conceptual GIS Map of Site			

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<i>No available map</i>	
Purpose(s)	Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input checked="" type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water	El Dorado County- Community Development Services
Stage of Development	
<input checked="" type="checkbox"/> Conceptual <input type="checkbox"/> Design	<input type="checkbox"/> Planning <input type="checkbox"/> Construction
	<input type="checkbox"/> Pre-Design <input type="checkbox"/> Other
Expected Project Timeline	Begin: 2020, End: 2030
Project Triggers	Funding opportunity
Potentially Applicable Federal and State Programs for Technical and Financial Assistance	
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program	
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Clean Water State Revolving Fund Program (CWSRF)	

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Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas

If the County establishes this program, job opportunities may arise for someone to oversee the program, take water samples, and manage the data that is obtained. Establishing this project provides an opportunity for the community to learn about water quality monitoring and the significance it has. This project will promote community involvement.

Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>Projected was developed after IRWM was published</u>
Project Benefits a DAC/EDA ¹	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No _____
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, no environmental documentation is completed yet</u>

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Contact Person(s):
Brendan Ferry, El Dorado County Principal Planner, brendan.ferry@edcgov.us , (530) 573-7905
Key References:
NA
Supplemental Information (e.g., Project Webpage or equivalent):
NA

¹DAC = Disadvantaged Communities
EDA = Economically Distressed Area

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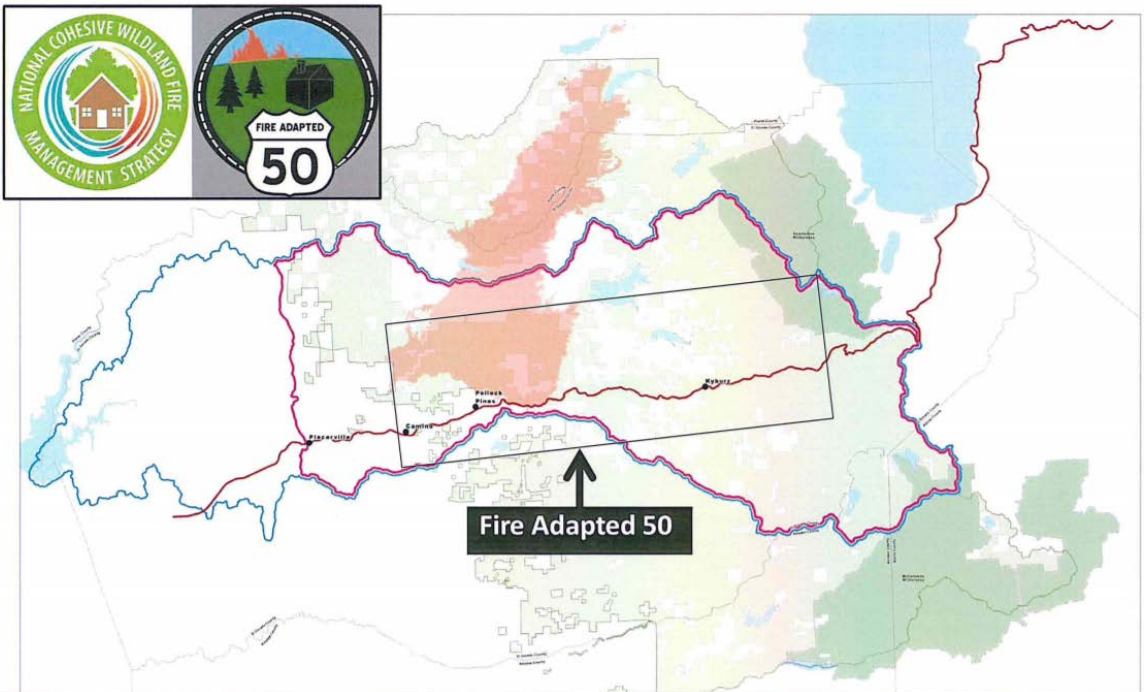
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B.3.14 219 Fire Adaptive along Highway 50-Fuels Reduction

Project/Program Name	<i>Fire Adaptive along Highway 50-Fuels Reduction</i>		
Responsible Agency	U.S. Forest Service		
Partner Agency (ies)	CALFIRE, RCD, Mule Deer Foundation		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$972,000.00		
Unit Cost	\$1,377/Acre		
Site Coordinates	Latitude: Three locations 1) Sly Park Phase: 38.728518° 2) Camino/Pollock Pines: 38.769653° 3) High 50 Corridor: 38.768761°	Longitude: Three locations 1) Sly Park Phase: -120.581972° 2) Camino/Pollock Pines: -120.657591° 3) High 50 Corridor: -120.365398°	
Description			
<p>The Forest Service and CAL FIRE worked closely to develop the Fire Adapted 50 plan which focuses on the Fire Adapted Communities component of the Cohesive Strategy. Fire Adapted 50 includes a series of projects which will strengthen and expand existing fuel breaks in the most heavily developed part of the watershed along the Highway 50 corridor.</p> <p>This project is divided into 3 phases:</p> <p>Sly Park Phase – Work in this area has been going on for 27 years. The established shaded fuel break will be expanded to connect to Highway 50 and Forest Service land along Sly Park Road.</p> <p>Camino/Pollock Pines Fuel Break Phase – Work in this area will be from Slab Creek Dam to Pony Express Trail along the rim of the canyon. This will improve and reinforce existing fuel breaks developed during the King Fire, and will tie into the existing Independence Fuel Break.</p> <p>Highway 50 Roadside Fuel Reduction Corridor- Work in this area will be roadside reduction for 300 feet on the north (uphill) side of Highway 50 from Pollock Pines to Strawberry</p> <p>In July 2016, the Eldorado National Forest and CAL FIRE’s parent agency, California Natural Resources Agency signed the first Good Neighbor Agreement in the Region, designed to start implementation of the Fire Adapted 50 plan. Under this agreement about 500 acres will be treated, a tracked chipper, an equipment trailer, and the environmental analysis required for additional fuel break construction will be provided. By implementing this plan, the habitat for aquatic and terrestrial species will be protected and enhanced. In addition, water quality and watershed function will be enhanced and the resiliency to catastrophic wildfire or pest outbreaks will be enhanced. The Participating Agreement with the Shingle Springs Band of Miwok Indians will contribute to the Fire Adaptive Communities goal by reducing hazardous fuels in 150 areas around the Wrights Lake and Dark Lake recreational areas. Similarly, the Forest entered into an agreement with the American Conservation Experience to do fuels reduction on 90 acres in the Caples project area and around the community of Strawberry. Overall this project will benefit an area that is greater than 1,100 acres.</p>			
Component			
Watershed Management			

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Potential Challenges	
Competing Resources Bark Beetle infestation due to prolonged drought Increased fire risk due to drought	
Conceptual GIS Map of Site	
 <p style="text-align: center;">Fire Adapted 50</p> <p style="text-align: center;">Cohesive Strategy Project Area</p> <p>https://eldorado.legistar.com/LegislationDetail.aspx?ID=2544860&GUID=ECE5E17E-A078-439B-8728-D8BD595FBE12</p>	
Purpose(s)	Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water	U.S. Forest Service, CALFIRE, RCD, Mule Deer Foundation

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Stage of Development		
<input type="checkbox"/> Conceptual	<input checked="" type="checkbox"/> Planning	<input type="checkbox"/> Pre-Design
<input type="checkbox"/> Design	<input type="checkbox"/> Construction	<input type="checkbox"/> Other
Expected Project Timeline	Begin: 2020, End: 2026	
Project Triggers	High fire risk	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program U.S. Department of the Interior (DOI) - Bureau of Reclamation - Cooperative Watershed Management Program California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Clean Water State Revolving Fund Program (CWSRF)		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas
This large fuel break project will help reduce non-point source pollution as the amount of organic matter that may make its way to local water bodies will be reduced. Given the large area that this project will cover this project will be able to enhance and protect the local environment. Consequently, this project will be able to create employment opportunities that are both short –term and long-term. This project will engage the community and enhance local recreational and public use areas.		

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Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project not added to IRWM currently</u>
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one <u>Project can be found in DAC Block Groups 2010-2014, DAC Places 2010-2014, DAC Tracts 2010-2014 as identified by the CA Department of Water Resources</u> <input type="checkbox"/> No _____
CEQA Compliance:	<input checked="" type="checkbox"/> Yes, explain <u>In the Implementation phase, with some NEPA/CEQA still being completed by Resource Conservation District</u> <input type="checkbox"/> No, explain _____
Contact Person(s):	
Kendal Young, Ph.D. , South Fork American River Cohesive Strategy Forest Service, kendalyoung@fs.fed.us , (530)-621-5259	
Key References:	
NA	
Supplemental Information (e.g., Project Webpage or equivalent):	
NA	

¹DAC = Disadvantaged Communities
 EDA = Economically Distressed Area

WEST SLOPE STORMWATER RESOURCE PLAN

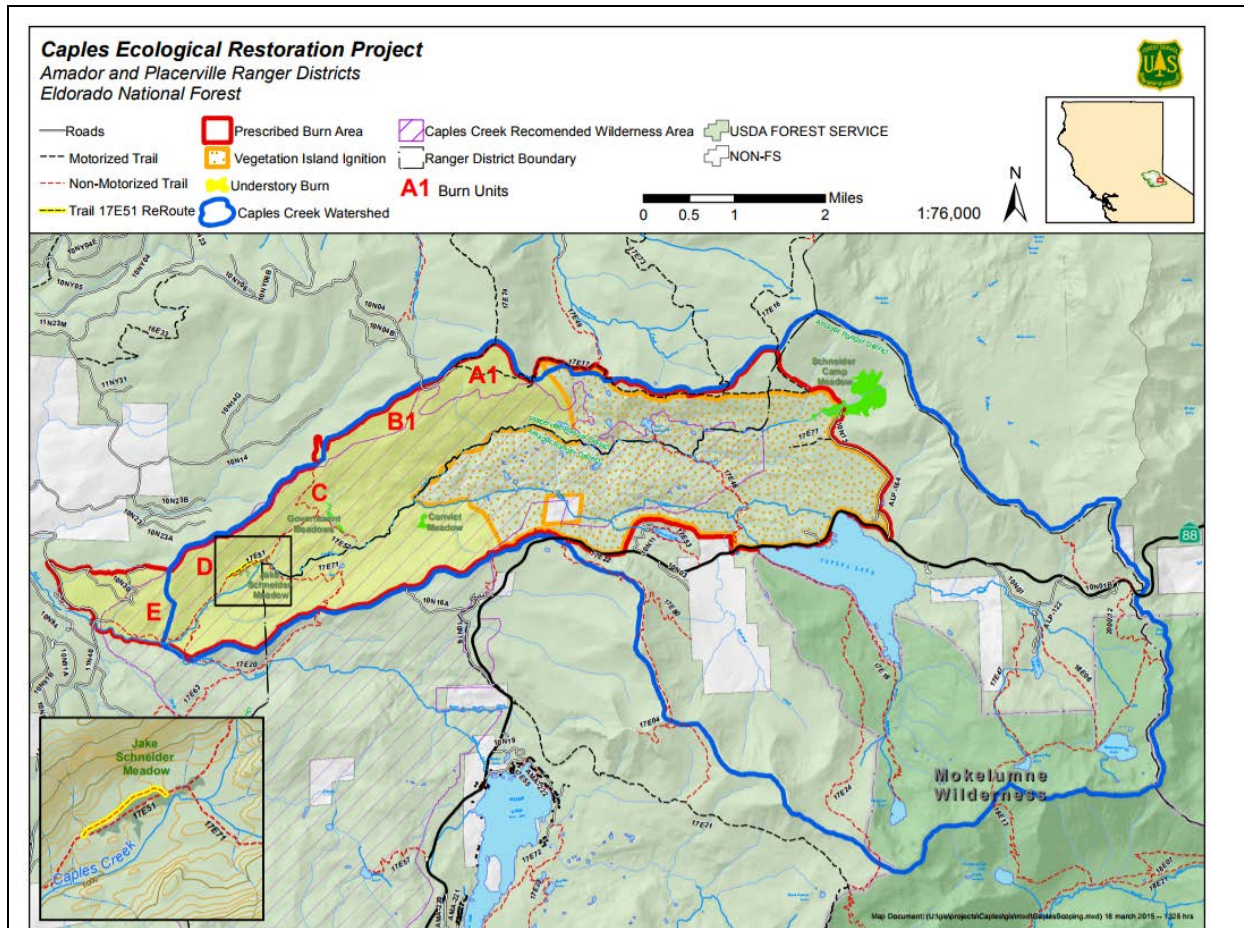
Appendix B Project Description Forms
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B.3.15 220 Caples Watershed Improvement

Project/Program Name	<i>Caples Watershed Improvement</i>		
Responsible Agency	U.S. Forest Service		
Partner Agency (ies)	Sierra Nevada Conservancy		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: Cost not calculated due to conceptual nature of project.		
Unit Cost	\$1,377/Acre		
Site Coordinates	Latitude: 38.716897°	Longitude: -120.073822°	
Description			
<p>This project involves forest management and restoration efforts in which prescribed fires will occur on 8,800 acres of the Caples Creek watershed, from downstream of Caples Lake to Silver Lake Road. Additionally, 25 acres of meadow and aspen stand restoration activities will occur.</p> <p>This project is of importance because forest health and resilience has decreased as seen through the high number of trees that are diseased, dead, or downed. With the recent drought and insect infestations the forest conditions have gotten worse since the number of dead trees has increased.</p> <p>Ultimately, the project will protect against wildfires and protect local water resources.</p>			
Component			
Watershed Management			
Potential Challenges			
This project is in a location of bark beetle infestation.			
Conceptual GIS Map of Site			

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https://www.fs.usda.gov/Internet/FSE_DOCUMENTS/fseprd562269.pdf

Purpose(s)	Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water	U.S. Forest Service, and Sierra Nevada Conservancy
Stage of Development	
<input type="checkbox"/> Conceptual <input type="checkbox"/> Design	<input checked="" type="checkbox"/> Planning <input type="checkbox"/> Construction <input type="checkbox"/> Pre-Design <input type="checkbox"/> Other
In the implementation phase	

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Expected Project Timeline	Begin: 2025, End: 2030	
Project Triggers	Extreme Drought Conditions High Fire Risk	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program U.S. Department of the Interior (DOI) - Bureau of Reclamation - Cooperative Watershed Management Program Sierra Nevada Conservancy Grant		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity		
Benefit Category	Main Benefit	Additional Benefit
Water Quality while contributing to compliance with applicable permit and/or TMDL requirements	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply through groundwater management and/or runoff capture and use	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas
<p>This project will help reduce non-point source pollution as the amount of organic matter that may make its way to local water bodies will be reduced. Given the large area that this project will cover this project will be able to enhance and protect the local environment. Consequently, this project will be able to create employment opportunities that are both short –term and long-term. This project will engage the community and enhance local recreational and public use areas. The air quality will also be improved with this project as 25 acres of meadow and aspen stand will be planted.</p>		

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Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain project not added to IRWM currently
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one Project can be found in DAC Places 2010-2014 as identified by the CA Department of Water Resources <input type="checkbox"/> No _____
CEQA Compliance:	<input checked="" type="checkbox"/> Yes, explain <u>CEQA has been completed</u> _____ <input type="checkbox"/> No, explain _____
Contact Person(s):	
Kendal Young, Ph.D. , South Fork American River Cohesive Strategy Forest Service, kendalyoung@fs.fed.us, (530)-621-5259	
Key References:	
NA	
Supplemental Information (e.g., Project Webpage or equivalent):	
http://www.eid.org/about-us/project-updates/caples-ecological-restoration-project	

¹DAC = Disadvantaged Communities
 EDA = Economically Distressed Area

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B.3.16 221 Camino Biomass Facility

Project/Program Name	<i>Camino Biomass Facility</i>		
Responsible Agency	El Dorado County Air Quality Management District		
Partner Agency (ies)	El Dorado County Department of Environmental Management		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$30 Million		
Unit Cost	NA		
Site Coordinates (Approximate)	Latitude: 38.742637°	Longitude: -120.681668°	
Description			
<p>This project would explore a way to save water by delving into the biomass industry. Biomass is anything organic burned or fermented (ex. Sludge) to create gas or fuel. The steam it produces can operate machine engines and when cooled is clean water that can be re-heated for continued use. An idea has been formulated to build a biomass plant on property owned by the Sierra Pacific Industries in Camino, CA. This plant would take in waste from the National Forest, the County Ag industry, current homeowners and the septage plant, produce electricity for the plant and sell the rest to either SMUD or PGE.</p> <p>It will be assumed that the biomass plant will be sized at 7.5 MW and the installed costs will be \$4,000/kW, with a resulting estimated cost of \$30 Million.</p>			
Component			
Watershed Management			
Potential Challenges			
Intergovernmental cooperation (Fed, State, County) Funding			
Conceptual GIS Map of Site			

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ID 221 - Camino Bio Mass Facility

Project Type

- Watershed Management (Green Circle)
- Linear Project Limits (Yellow Line)
- Project Limits (Grey Line)

Project Component:
Watershed Management
Latitude: 38.742637
Longitude: -120.681668

0 400 800 Feet

Projection: CA SP II NAD83
Background: NAIP (2016)
Prepared: December, 2017

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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		El Dorado County Air Quality Management District and El Dorado County Department of Environmental Management
Stage of Development		
<input checked="" type="checkbox"/> Conceptual <input type="checkbox"/> Planning <input type="checkbox"/> Pre-Design <input type="checkbox"/> Design <input type="checkbox"/> Construction <input type="checkbox"/> Other		
Expected Project Timeline	Begin: 2020, End: 2026	
Project Triggers	Funding opportunity	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
	Increased urban green space	Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas

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The proposed project will increase water supply reliability and promote water conservation in addition to help reduce nonpoint source pollution. This project will ultimately engage the involvement of the community and create job opportunities with the creation of this facility. With the construction of the biomass plant this project will create job opportunities during the construction phase and will eventually need a group of people to run the facility.	
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, not added to IRWM currently</u>
Project Benefits a DAC/EDA: ¹	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No _____
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, no environmental documentation is completed yet</u>
Contact Person(s):	
Brian Veerkamp, El Dorado County, brian.veerkamp@edcgov.us , (530)621-5652	
Key References:	
NA	
Supplemental Information (e.g., Project Webpage or equivalent):	
https://www.wbdg.org/resources/biomass-electricity-generation http://ucanr.edu/sites/WoodyBiomass/files/78993.pdf	

¹DAC = Disadvantaged Communities
 EDA = Economically Distressed Area

WEST SLOPE STORMWATER RESOURCE PLAN

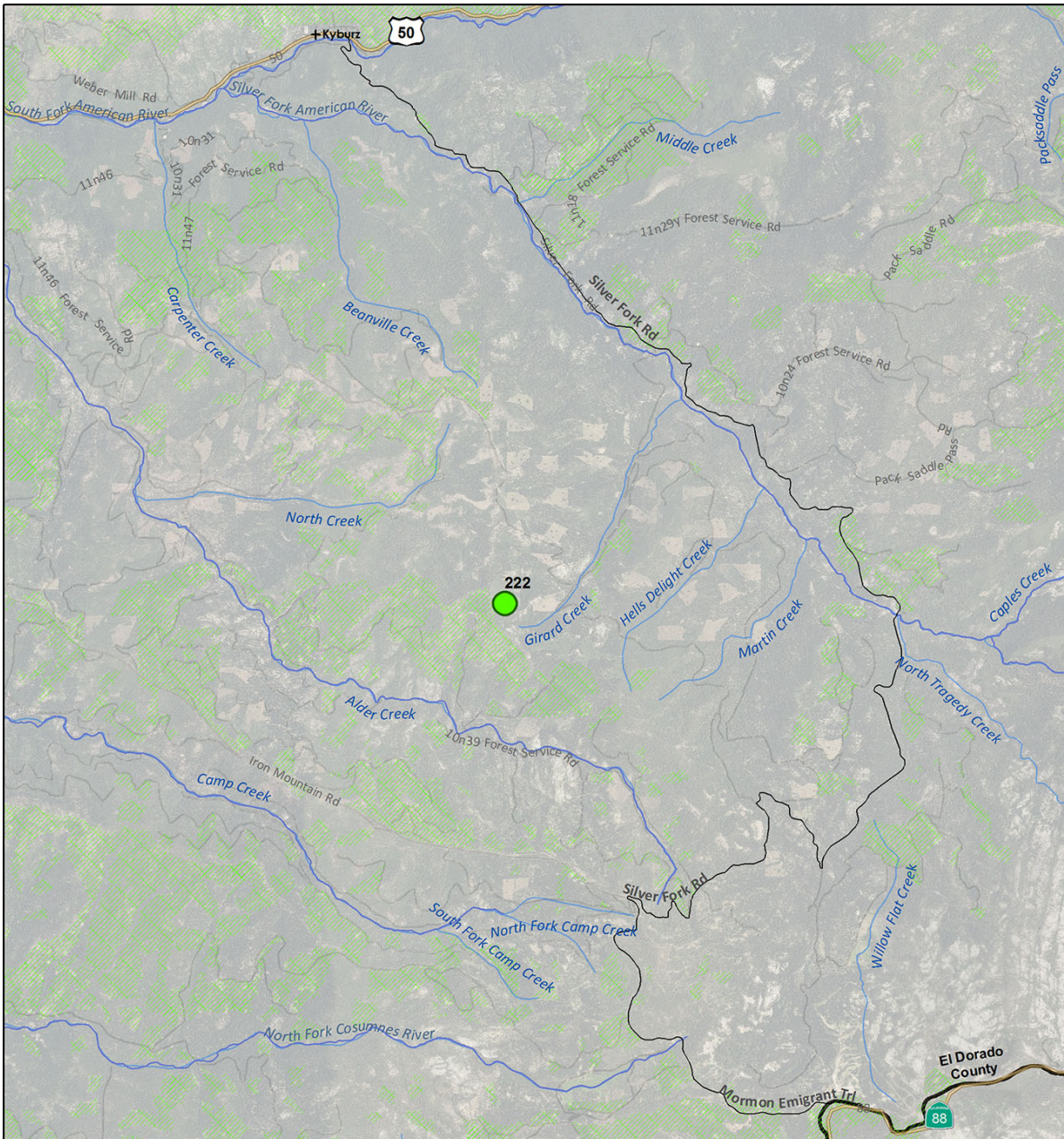
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B.3.17 222 General Sherman Integrated Resource Timber Contract-Timber Sale

Project/Program Name	<i>General Sherman Integrated Resource Timber Contract-Timber Sale</i>		
Responsible Agency	U.S. Forest Service		
Partner Agency (ies)	South Fork American River Cohesive Strategy		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$4,131,000.00		
Unit Cost	\$1,377/Acre		
Site Coordinates (Approximate)	Latitude: 38.6972°	Longitude: -120.268522°	
Description			
<p>This is a timber sale project that is set to occur South of Kyburz between Silver Fork Road and Mormon Emigrant Trail. This project is an integrated resource timber contract in which the value of the timber is much greater than the cost of the services used to sell the timber. Conducting this project will enhance local wildlife conditions such that wildlife that enjoy open sun filled spaces will be provided with more open sun filled spaces after trees have been cleared out. Additionally, timber projects like these will help maintain a healthy forest such that it will help remove trees that may have become affected by disease or pests. In other cases, removing trees can help prevent the spread of disease or simply provide better conditions for healthy trees to grow as they will receive access to more sunlight and space. This project will encompass approximately 3,000 acres.</p>			
Component			
Watershed Management			
Potential Challenges			
Competing Resources Bark Beetle infestation due to prolonged drought Increased fire risk due to drought			
Conceptual GIS Map of Site			

WEST SLOPE STORMWATER RESOURCE PLAN

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ID 222 - General Sherman Integrated Resource Timber Contract

Project Type

- Watershed Management
- Linear Project Limits
- Project Limits
- USFS Timber License Area

Project Component:
Watershed Management

Latitude: 38.6972
Longitude: -120.268522

0 7,000 14,000 Feet

Projection: CA SP II NAD83
Background: NAIP (2016)
Prepared: December, 2017

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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		U.S. Forest Service, South Fork American River Cohesive Strategy
Stage of Development		
<input type="checkbox"/> Conceptual <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Pre-Design		<input checked="" type="checkbox"/> Design <input type="checkbox"/> Construction <input type="checkbox"/> Other
Expected Project Timeline	Begin: 2019, End: 2024	
Project Triggers	High fire risk	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program		
U.S. Department of the Interior (DOI) - Bureau of Reclamation - Cooperative Watershed Management Program		

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Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas
Given the large area that this project will cover this project will be able to enhance and protect the local environment. Consequently, this project will be able to create employment opportunities that are both short –term and long-term. This project will engage the community and enhance local recreational and public use areas.		
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project not added to IRWM currently</u>	
Project Benefits a DAC/EDA: ¹	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No _____	
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>CEQA has not been completed</u>	

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Contact Person(s):
Kendal Young, Ph.D. , South Fork American River Cohesive Strategy Forest Service, kendalyoung@fs.fed.us , (530)-621-5259
Key References:
NA
Supplemental Information (e.g., Project Webpage or equivalent):
NA

¹DAC = Disadvantaged Communities
EDA = Economically Distressed Area

WEST SLOPE STORMWATER RESOURCE PLAN

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WEST SLOPE STORMWATER RESOURCE PLAN

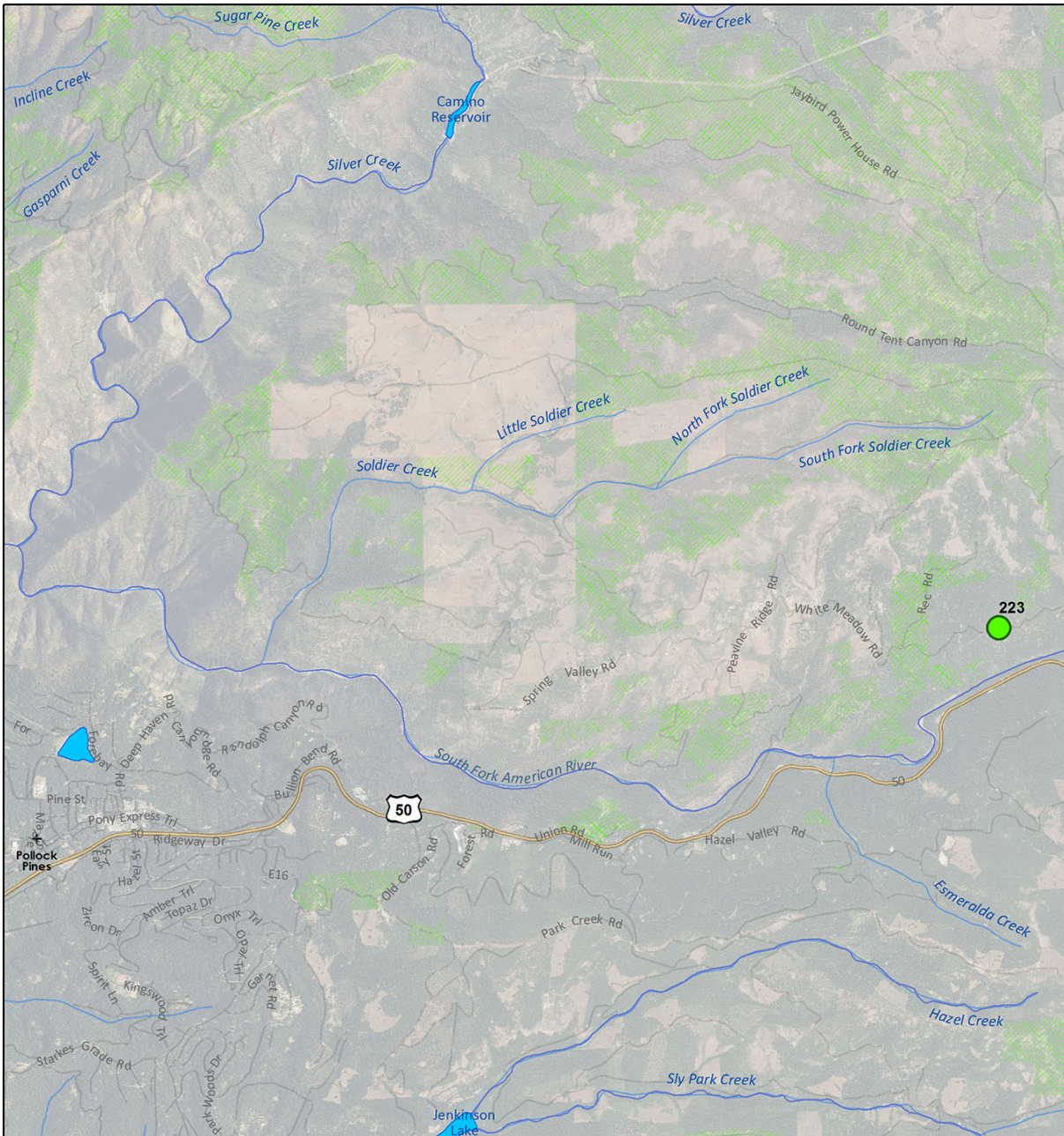
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B.3.18 223 Two-fer Integrated Resource Timber Contract-Timber Sale

Project/Program Name	<i>Two-fer Integrated Resource Timber Contract-Timber Sale</i>		
Responsible Agency	U.S. Forest Service		
Partner Agency (ies)	South Fork American River Cohesive Strategy		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$14,287,752.00		
Unit Cost	\$1,377/Acre		
Site Coordinates	Latitude: 38.779893°	Longitude: -120.469544°	
Description			
<p>This is a timber sale project that is set to occur in the following location: North and South Side of Highway 50 (T12N, R 14E, T11N, R13, 14, 15, T10N R14 and 15E), east of Pollock Pines, where the Ice Fire and Cleveland Fire had previously occurred. This project is an integrated resource timber contract in which the value of the timber is much greater than the cost of the services used to sell the timber. Conducting this project will enhance local wildlife conditions such that wildlife that enjoy open sun filled spaces will be provided with more open sun filled spaces after trees have been cleared out. Additionally, timber projects like these will help maintain a healthy forest such that it will help remove trees that may have become affected by disease or pests. In other cases, removing trees can help prevent the spread of disease or simply provide better conditions for healthy trees to grow as they will receive access to more sunlight and space. This project will encompass approximately 10,376 acres.</p>			
Component			
Watershed Management			
Potential Challenges			
Competing Resources Bark Beetle infestation due to prolonged drought Increased fire risk due to drought			
Conceptual GIS Map of Site			

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Appendix B Project Description Forms
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Old 223 - Two-fer Integrated Resource Timber Contract

Project Type

- Watershed Management

Project Limits

- Linear Project Limits
- Project Limits
- USFS Timber License Area

Project Component:
Watershed Management
Latitude: 38.779893
Longitude: -120.469544

0 5,000 10,000 Feet

Projection: CA SP II NAD83
Background: NAIP (2016)
Prepared: December, 2017

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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		U.S. Forest Service, South Fork American River Cohesive Strategy
Stage of Development		
<input type="checkbox"/> Conceptual <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Pre-Design <input checked="" type="checkbox"/> Design <input type="checkbox"/> Construction <input type="checkbox"/> Other		
Expected Project Timeline	Begin: 2020, End: 2025	
Project Triggers	High fire risk	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program U.S. Department of the Interior (DOI) - Bureau of Reclamation - Cooperative Watershed Management Program		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas

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Given the large area that this project will cover this project will be able to enhance and protect the local environment. Consequently, this project will be able to create employment opportunities that are both short –term and long-term. This project will engage the community and enhance local recreational and public use areas.	
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project not added to IRWM currently</u>
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one <u>Project Falls under the 2010-2014 DAC Block Groups as identified by the CA Department of Water Resources</u> <input type="checkbox"/> No _____
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>CEQA has not been completed</u>
Contact Person(s):	
Kendal Young, Ph.D. , South Fork American River Cohesive Strategy Forest Service, kendalyoung@fs.fed.us , (530)-621-5259	
Key References:	
NA	
Supplemental Information (e.g., Project Webpage or equivalent):	
NA	

¹DAC = Disadvantaged Communities
 EDA = Economically Distressed Area

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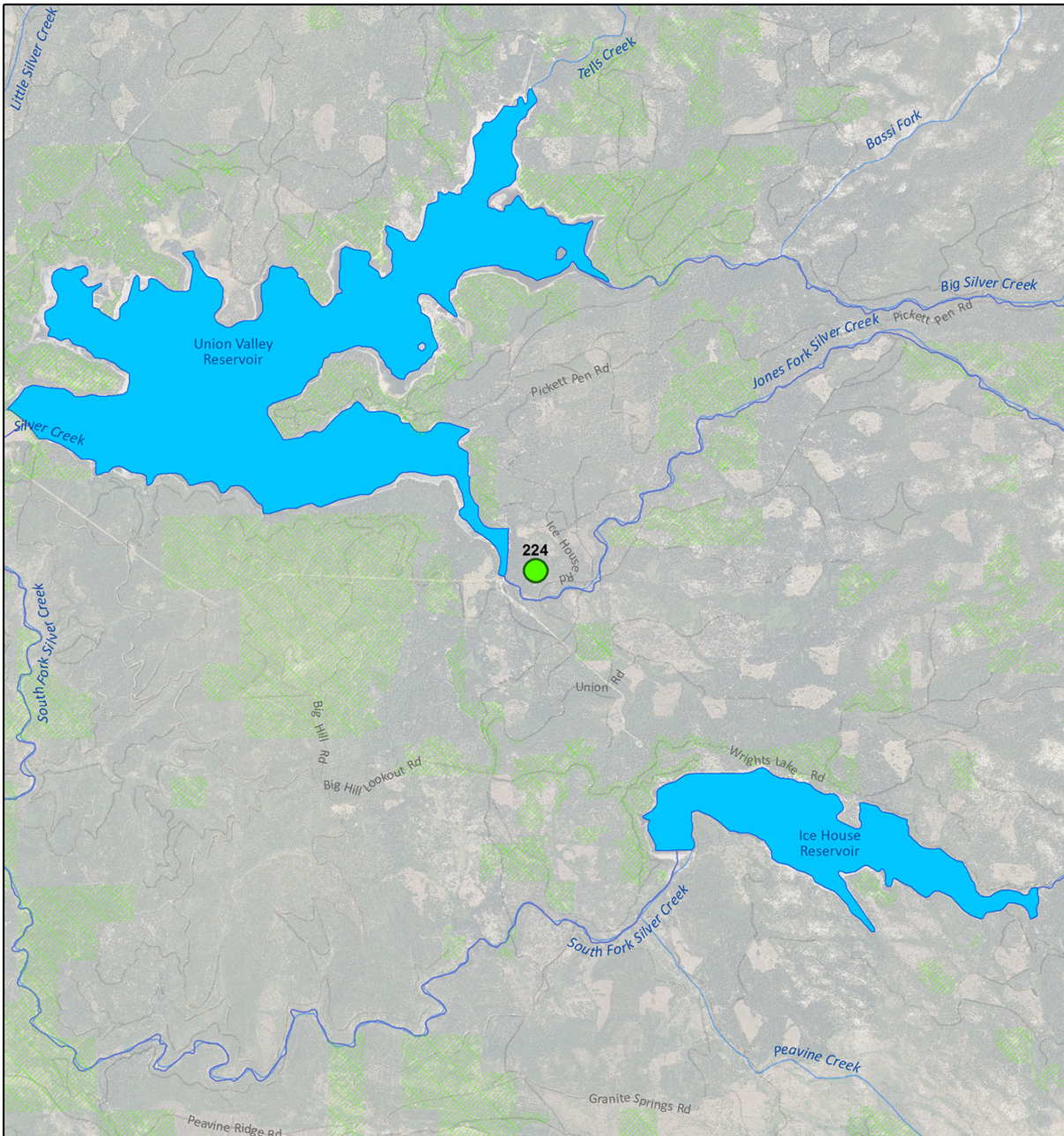
Appendix B Project Description Forms
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B.3.19 224 Reservoir Thinning Integrated Resource Timber Contract

Project/Program Name	<i>Reservoir Thinning Integrated Resource Timber Contract</i>		
Responsible Agency	U.S. Forest Service		
Partner Agency (ies)	South Fork American River Cohesive Strategy		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: Cost not calculated due to conceptual nature of project.		
Unit Cost	\$1,377/Acre		
Site Coordinates (Approximate)	Latitude: 38.851116°	Longitude: -120.377492°	
Description			
<p>This is a timber sale project that is set to occur between Ice House Reservoir and Union Valley Reservoir. This project is an integrated resource timber contract in which the value of the timber is much greater than the cost of the services used to sell the timber. Conducting this project will enhance local wildlife conditions such that wildlife that enjoy open sun filled spaces will be provided with more open sun filled spaces after trees have been cleared out. Additionally, timber projects like these will help maintain a healthy forest such that it will help remove trees that may have become affected by disease or pests. In other cases, removing trees can help prevent the spread of disease or simply provide better conditions for healthy trees to grow as they will receive access to more sunlight and space. This project will also include pre-commercial thinning.</p>			
Component			
Watershed Management			
Potential Challenges			
<p>Competing Resources Bark Beetle infestation due to prolonged drought Increased fire risk due to drought</p>			
Conceptual GIS Map of Site			

WEST SLOPE STORMWATER RESOURCE PLAN

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ID 224 - Reservoir Thinning Integrated Resource Timber Contract

Project Type

- Watershed Management

Project Limits

- Linear Project Limits
- Project Limits
- USFS Timber License Area

Project Component:
Watershed Management

Latitude: 38.851116
Longitude: -120.377492

0 5,000 10,000 Feet

Projection: CA SP II NAD83
Background: NAIP (2016)
Prepared: December, 2017

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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		U.S. Forest Service, South Fork American River Cohesive Strategy
Stage of Development		
<input type="checkbox"/> Conceptual <input checked="" type="checkbox"/> Design		<input checked="" type="checkbox"/> Planning <input type="checkbox"/> Construction <input type="checkbox"/> Pre-Design <input type="checkbox"/> Other
Expected Project Timeline	Begin: 2020, End: 2025	
Project Triggers	High fire risk	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program U.S. Department of the Interior (DOI) - Bureau of Reclamation - Cooperative Watershed Management Program		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas

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<p>Given the large area that this project will cover this project will be able to enhance and protect the local environment. Consequently, this project will be able to create employment opportunities that are both short –term and long-term. This project will engage the community and enhance local recreational and public use areas.</p>	
<p>Project Included in IRWM:</p>	<p><input type="checkbox"/> Yes, which one_____</p> <p><input checked="" type="checkbox"/> No, explain <u>project not added to IRWM currently</u></p>
<p>Project Benefits a DAC/EDA:¹</p>	<p><input checked="" type="checkbox"/> Yes, which one <u>Project can be found in DAC Block Groups 2010-2014 as identified by the CA Department of Water Resources</u></p> <p><input type="checkbox"/> No_____</p>
<p>CEQA Compliance:</p>	<p><input type="checkbox"/> Yes, explain_____</p> <p><input checked="" type="checkbox"/> No, explain <u>CEQA has not been completed</u></p>
<p>Contact Person(s):</p>	
<p>Kendal Young, Ph.D. , South Fork American River Cohesive Strategy Forest Service, kendalyoung@fs.fed.us, (530)-621-5259</p>	
<p>Key References:</p>	
<p>NA</p>	
<p>Supplemental Information (e.g., Project Webpage or equivalent):</p>	
<p>NA</p>	

¹DAC = Disadvantaged Communities
EDA = Economically Distressed Area

WEST SLOPE STORMWATER RESOURCE PLAN

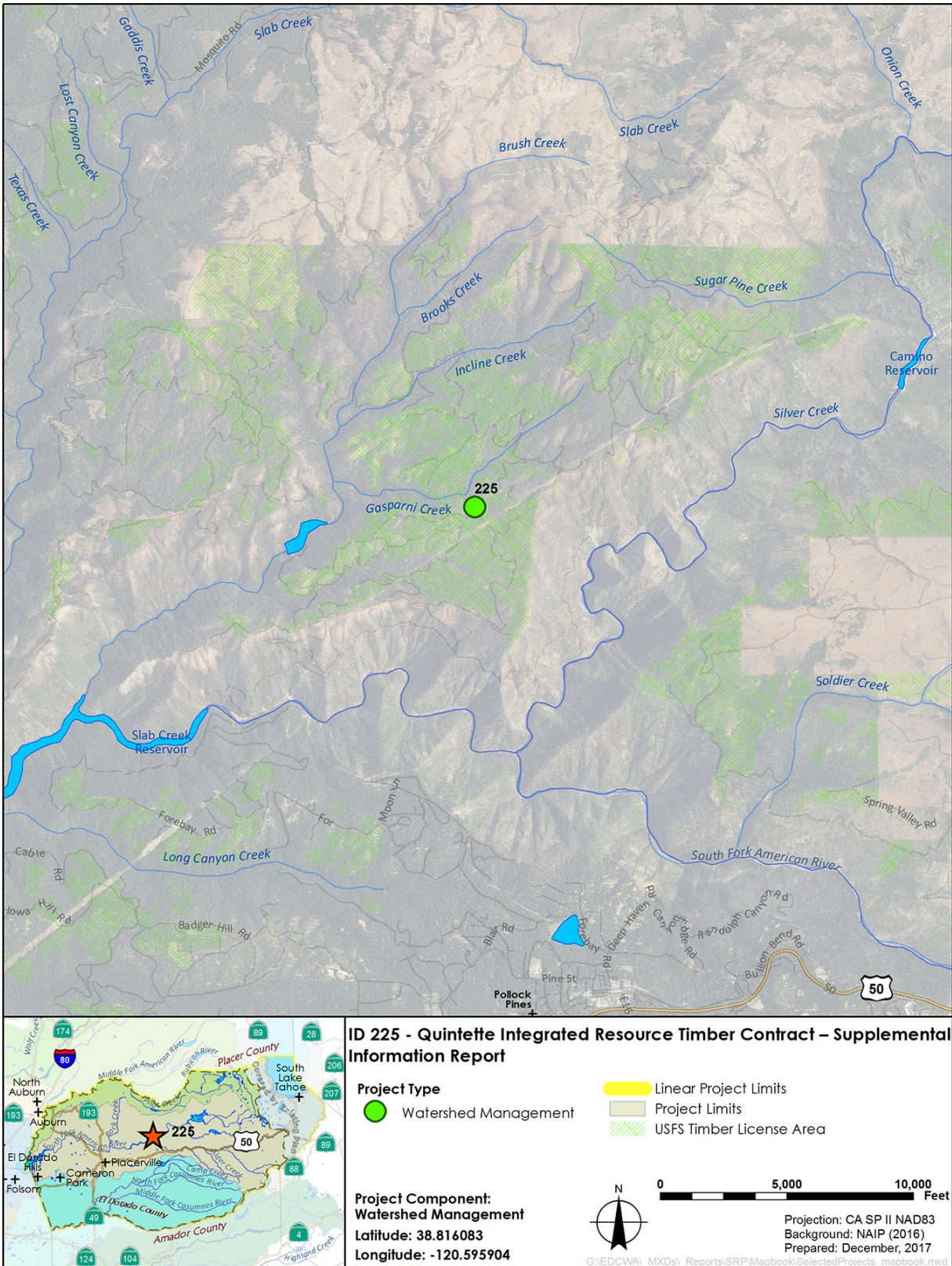
Appendix B Project Description Forms
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B.3.20 225 Quintette Integrated Resource Timber Contract – Supplemental Information Report-Timber Sale

Project/Program Name	<i>Quintette Integrated Resource Timber Contract – Supplemental Information Report-Timber Sale</i>		
Responsible Agency	U.S. Forest Service		
Partner Agency (ies)	South Fork American River Cohesive Strategy		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$2,754,000.00		
Unit Cost	\$1,377/Acre		
Site Coordinates (Approximate)	Latitude: 38.816083°	Longitude: -120.595904°	
Description			
<p>This is a timber sale project that will occur out of the King Fire area, located southeast of Georgetown, specifically in the Rock Creek Drainage on Georgetown RD. This project is an integrated resource timber contract in which the value of the timber is much greater than the cost of the services used to sell the timber. Conducting this project will enhance local wildlife conditions such that wildlife that enjoy open sun filled spaces will be provided with more open sun filled spaces after trees have been cleared out. Additionally, timber projects like these will help maintain a healthy forest such that it will help remove trees that may have become affected by disease or pests. In other cases, removing trees can help prevent the spread of disease or simply provide better conditions for healthy trees to grow as they will receive access to more sunlight and space. This project will cover approximately 2,000 acres.</p>			
Component			
Watershed Management			
Potential Challenges			
<p>Competing Resources Bark Beetle infestation due to prolonged drought Increased fire risk due to drought</p>			
Conceptual GIS Map of Site			

WEST SLOPE STORMWATER RESOURCE PLAN

Appendix B Project Description Forms
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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		U.S. Forest Service, South Fork American River Cohesive Strategy
Stage of Development		
<input type="checkbox"/> Conceptual <input type="checkbox"/> Design		<input checked="" type="checkbox"/> Planning <input type="checkbox"/> Construction <input type="checkbox"/> Other
Expected Project Timeline	Begin: 2020, End: 2025	
Project Triggers	High fire risk	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program U.S. Department of the Interior (DOI) - Bureau of Reclamation - Cooperative Watershed Management Program		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas

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Given the large area that this project will cover this project will be able to enhance and protect the local environment. Consequently, this project will be able to create employment opportunities that are both short –term and long-term. This project will engage the community and enhance local recreational and public use areas.	
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project not added to IRWM currently</u>
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one <u>Project can be found in DAC Block Groups 2010-2014 as identified by the CA Department of Water Resources</u>
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>CEQA has not been completed</u>
Contact Person(s):	
Kendal Young, Ph.D. , South Fork American River Cohesive Strategy Forest Service, kendalyoung@fs.fed.us , (530)-621-5259	
Key References:	
NA	
Supplemental Information (e.g., Project Webpage or equivalent):	
NA	

¹DAC = Disadvantaged Communities
 EDA = Economically Distressed Area

WEST SLOPE STORMWATER RESOURCE PLAN

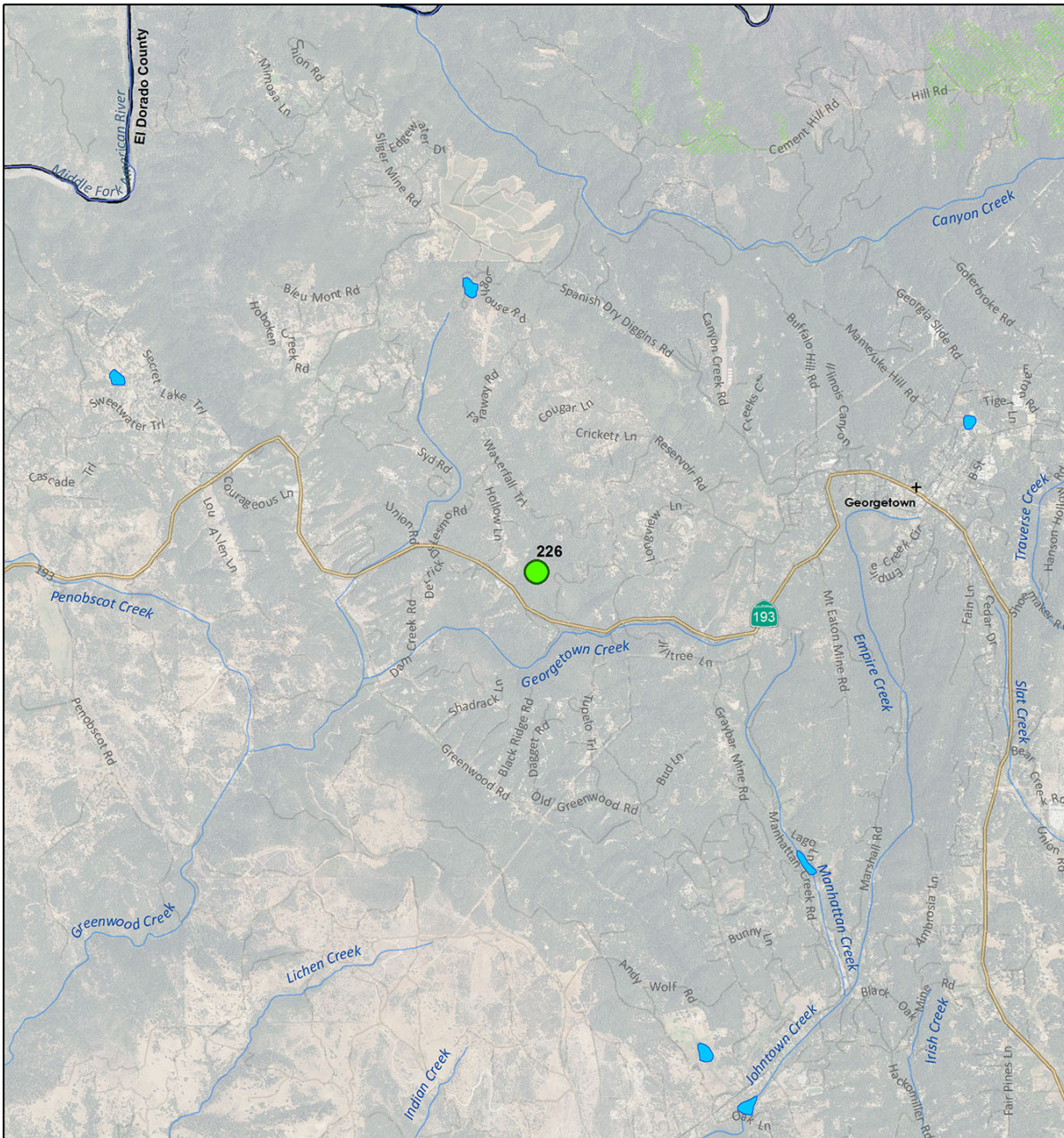
Appendix B Project Description Forms
 March 2018

B.3.21 226 Western Georgetown Fuel Reduction Integrated Resource Timber Contract-Timber Sale

Project/Program Name	<i>Western Georgetown Fuel Reduction Integrated Resource Timber Contract-Timber Sale</i>		
Responsible Agency	U.S. Forest Service		
Partner Agency (ies)	South Fork American River Cohesive Strategy		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$2,065,500.00		
Unit Cost	\$1,377/Acre		
Site Coordinates	Latitude: 38.899026°	Longitude: -120.888371°	
Description			
<p>This is a timber sale project near Georgetown. This project is an integrated resource timber contract in which the value of the timber is much greater than the cost of the services used to sell the timber. Conducting this project will enhance local wildlife conditions such that wildlife that enjoy open sun filled spaces will be provided with more open sun filled spaces after trees have been cleared out. This project will specifically, remove and sale trees that are dying or were affected by beetle kill infestations. By removing the dead or affected trees, the project will help prevent the spread of beetle kill infestations. This project will cover approximately 1,500 acres.</p>			
Component			
Watershed Management			
Potential Challenges			
<p>Competing Resources Bark Beetle infestation due to prolonged drought Increased fire risk due to drought</p>			
Conceptual GIS Map of Site			

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Appendix B Project Description Forms
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ID 226 - Western Georgetown Fuel Reduction Integrated Resource Timber Contract

Project Type

- Watershed Management

Project Limits

- Linear Project Limits
- Project Limits
- USFS Timber License Area

Project Component:
Watershed Management

Latitude: 38.899026
Longitude: -120.888371

Projection: CA SP II NAD83
Background: NAIP (2016)
Prepared: December, 2017

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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		U.S. Forest Service, South Fork American River Cohesive Strategy
Stage of Development		
<input checked="" type="checkbox"/> Conceptual <input type="checkbox"/> Planning <input type="checkbox"/> Pre-Design <input type="checkbox"/> Design <input type="checkbox"/> Construction <input type="checkbox"/> Other		
Expected Project Timeline	Begin: 2020, End: 2025	
Project Triggers	High fire risk Spread of Bark Beetle infestation	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program U.S. Department of the Interior (DOI) - Bureau of Reclamation - Cooperative Watershed Management Program		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas

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<p>This project will help reduce non-point source pollution as the amount of organic matter that may make its way to local water bodies will be reduced. Given the large area that this project will cover this project will be able to enhance and protect the local environment. Consequently, this project will be able to create employment opportunities that are both short –term and long-term. This project will engage the community and enhance local recreational and public use areas.</p>	
<p>Project Included in IRWM:</p>	<p><input type="checkbox"/> Yes, which one _____</p> <p><input checked="" type="checkbox"/> No, explain <u>project not added to IRWM currently</u></p>
<p>Project Benefits a DAC/EDA:¹</p>	<p><input checked="" type="checkbox"/> Yes, which one <u>Project can be found in DAC Block Groups 2010-2014 as identified by the CA Department of Water Resources</u></p> <p><input type="checkbox"/> No _____</p>
<p>CEQA Compliance:</p>	<p><input type="checkbox"/> Yes, explain _____</p> <p><input checked="" type="checkbox"/> No, explain <u>CEQA has not been completed</u> _____</p>
<p>Contact Person(s):</p>	
<p>Kendal Young, Ph.D. , South Fork American River Cohesive Strategy Forest Service, kendalyoung@fs.fed.us, (530)-621-5259</p>	
<p>Key References:</p>	
<p>NA</p>	
<p>Supplemental Information (e.g., Project Webpage or equivalent):</p>	
<p>NA</p>	

¹DAC = Disadvantaged Communities
 EDA = Economically Distressed Area

WEST SLOPE STORMWATER RESOURCE PLAN

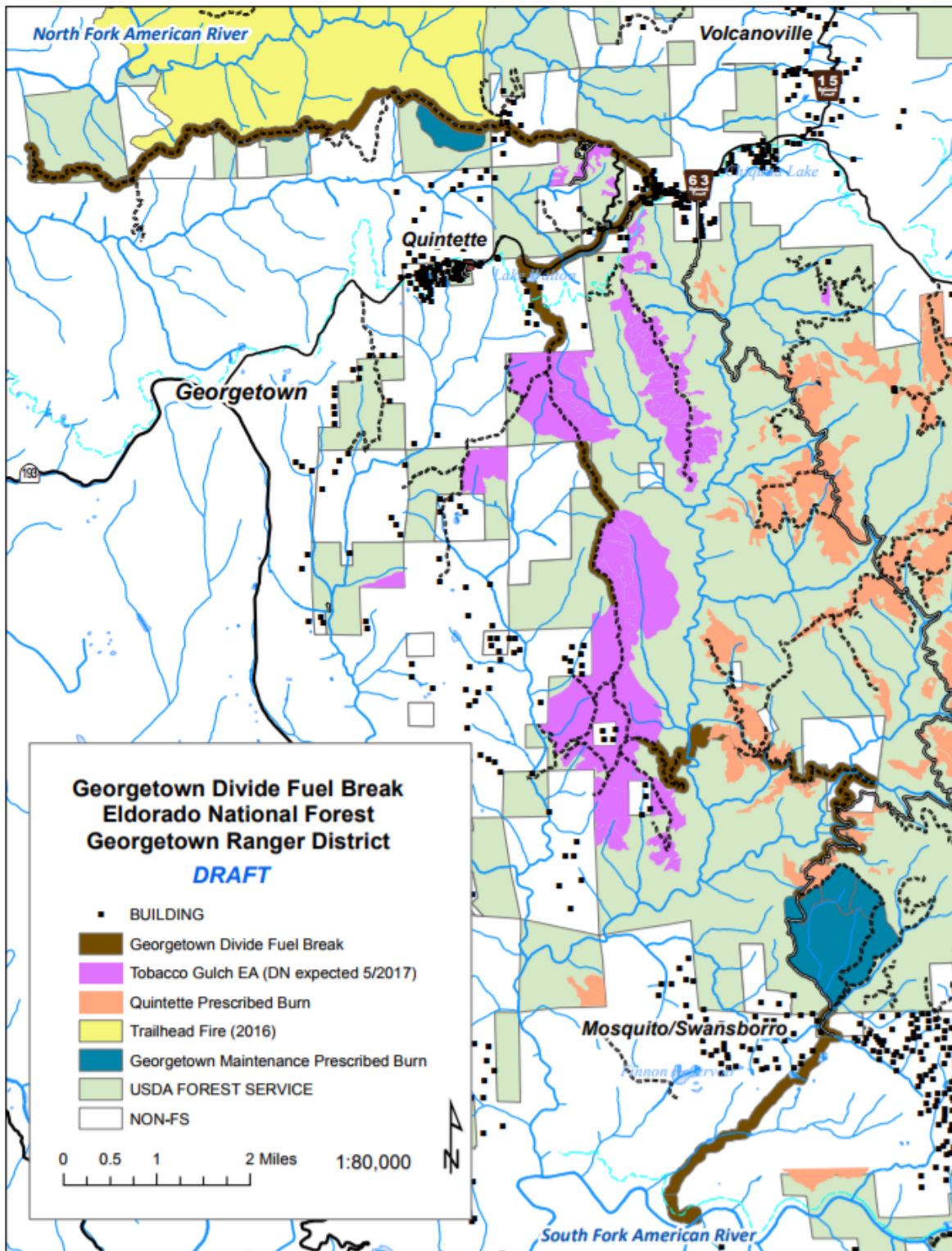
Appendix B Project Description Forms
March 2018

B.3.22 227 Georgetown Divide Fuelbreak

Project/Program Name	<i>Georgetown Divide Fuelbreak</i>		
Responsible Agency	U.S. Forest Service		
Partner Agency (ies)	South Fork American River Cohesive Strategy		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: Cost not calculated due to conceptual nature of project.		
Unit Cost	\$1,377/Acre		
Site Coordinates (Approximate)	Latitude: 38.875144°	Longitude: -120.756907°	
Description			
<p>This is a fuels reduction project that is set to occur near Highway 50, near the Community of Swansboro/Mosquito. The project that will span from Camino to Georgetown. Conducting this project will help suppress fires and protect natural resources by controlling the amount of vegetation, controlling the amount invasive species, improving the rangeland for livestock grazing, improving fish and wildlife habitat, enhancing and protecting riparian areas and wetlands, and improving water quality.</p>			
Component			
Watershed Management			
Potential Challenges			
Increased fire risk due to drought			
Conceptual GIS Map of Site			

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<http://www.nfwf.org/pswfuels/Documents/Eldorado%20Georgetown%20Map%201%20Project%20Area.pdf>

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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		U.S. Forest Service, South Fork American River Cohesive Strategy
Stage of Development		
<input checked="" type="checkbox"/> Conceptual <input type="checkbox"/> Planning <input type="checkbox"/> Pre-Design <input type="checkbox"/> Design <input type="checkbox"/> Construction <input type="checkbox"/> Other		
Expected Project Timeline	Begin: 2020, End: 2025	
Project Triggers	High fire risk	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program U.S. Department of the Interior (DOI) - Bureau of Reclamation - Cooperative Watershed Management Program		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas

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<p>This is a large fuels reduction project that will help reduce non-point source pollution as the amount of organic matter that may make its way to local water bodies will be reduced. Given the large area that this project will cover this project will be able to enhance and protect the local environment. Consequently, this project will be able to create employment opportunities that are both short –term and long-term. This project will engage the community and enhance local recreational and public use areas.</p>	
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project not added to IRWM currently</u>
Project Benefits a DAC/EDA: ¹	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No _____
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>CEQA has not been completed, but is anticipated</u>
Contact Person(s):	
Kendal Young, Ph.D. , South Fork American River Cohesive Strategy Forest Service, kendalyoung@fs.fed.us , (530)-621-5259	
Key References:	
NA	
Supplemental Information (e.g., Project Webpage or equivalent):	
NA	

¹DAC = Disadvantaged Communities
EDA = Economically Distressed Area

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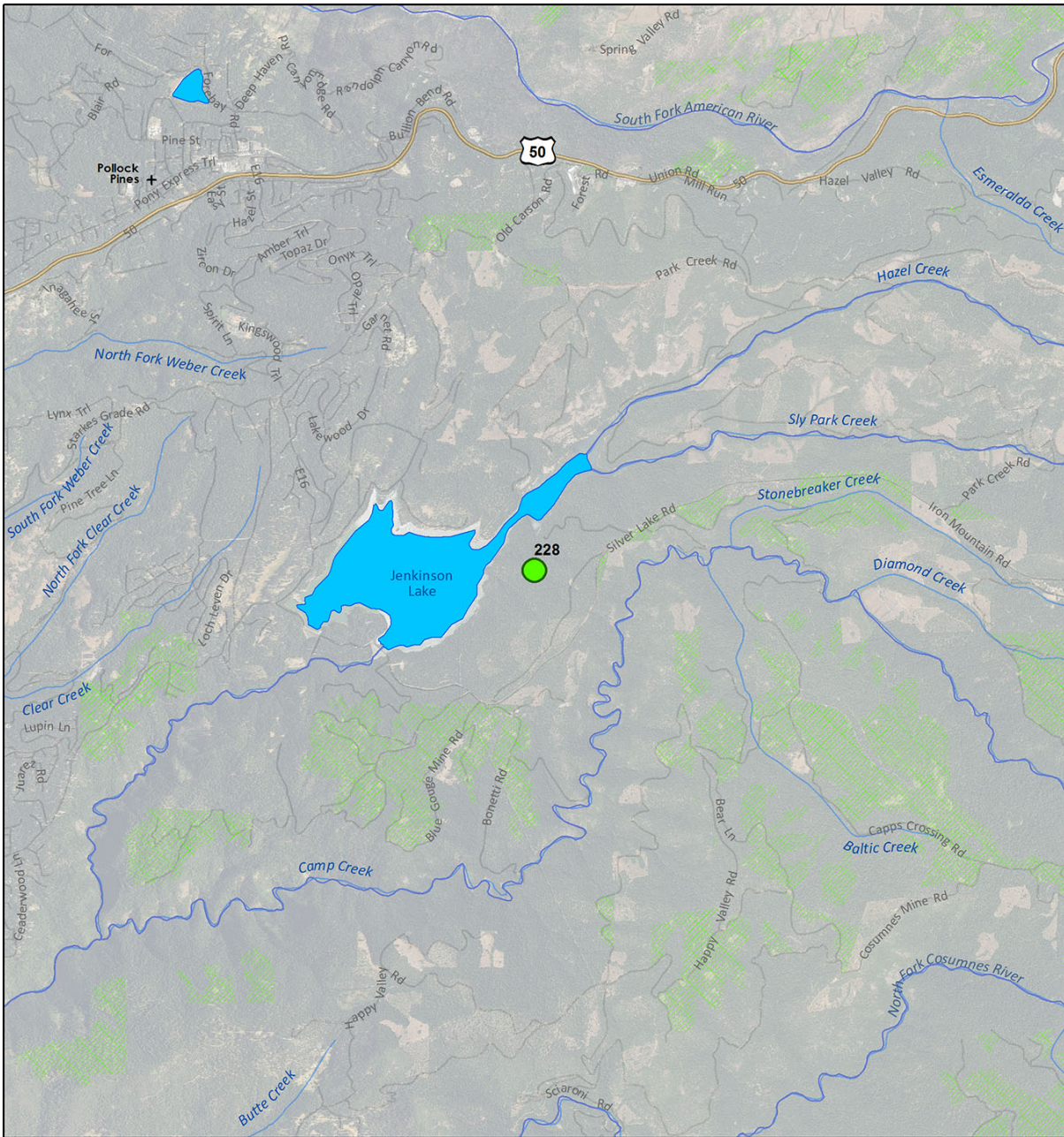
Appendix B Project Description Forms
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B.3.23 228 Jenkinson Lake Fuels Reduction

Project/Program Name	<i>Jenkinson Lake Fuels Reduction</i>		
Responsible Agency	U.S. Forest Service		
Partner Agency (ies)	El Dorado County & Georgetown Divide Resource Conservation Districts, Mule Deer Foundation		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$2,754,000.00		
Unit Cost	\$1,377/Acre		
Site Coordinates	Latitude: 38.722582°	Longitude: -120.542343°	
Description			
<p>This is a fuels reduction project that will occur near Jenkinson Lake. Conducting this project will help suppress fires and protect natural resources by controlling the amount of vegetation, controlling the amount of invasive species, improving the rangeland for livestock grazing, improving fish and wildlife habitat, enhancing and protecting riparian areas and wetlands, and improving water quality. This project will cover approximately 2,000 acres.</p>			
Component			
Watershed Management			
Potential Challenges			
<p>Competing Resources</p> <p>Bark Beetle infestation due to prolonged drought</p> <p>Increased fire risk due to drought</p>			
Conceptual GIS Map of Site			

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ID 228 - Jenkinson Lake Fuels Reduction

Project Type	Linear Project Limits
Watershed Management	Project Limits
	USFS Timber License Area

Project Component:
Watershed Management

Latitude: 38.722582
Longitude: -120.542343

0 5,000 10,000 Feet

Projection: CA SP II NAD83
Background: NAIP (2016)
Prepared: December, 2017

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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		U.S. Forest Service, El Dorado County & Georgetown Divide Resource Conservation Districts, and Mule Deer Foundation
Stage of Development		
<input type="checkbox"/> Conceptual <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Pre-Design <input checked="" type="checkbox"/> Design <input type="checkbox"/> Construction <input type="checkbox"/> Other		
Expected Project Timeline	Begin: 2020, End: 2025	
Project Triggers	High fire risk	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program U.S. Department of the Interior (DOI) - Bureau of Reclamation - Cooperative Watershed Management Program		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas

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<p>This fuels reduction project will help reduce non-point source pollution as the amount of organic matter that may make its way to local water bodies will be reduced. Given the large area that this project will cover this project will be able to enhance and protect the local environment. Consequently, this project will be able to create employment opportunities that are both short –term and long-term. This project will engage the community and enhance local recreational and public use areas.</p>	
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project not added to IRWM currently</u>
Project Benefits a DAC/EDA: ¹	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No _____
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>CEQA has not been completed, but is anticipated</u>
Contact Person(s):	
Kendal Young, Ph.D. , South Fork American River Cohesive Strategy Forest Service, kendalyoung@fs.fed.us , (530)-621-5259	
Key References:	
NA	
Supplemental Information (e.g., Project Webpage or equivalent):	
NA	

¹DAC = Disadvantaged Communities
EDA = Economically Distressed Area

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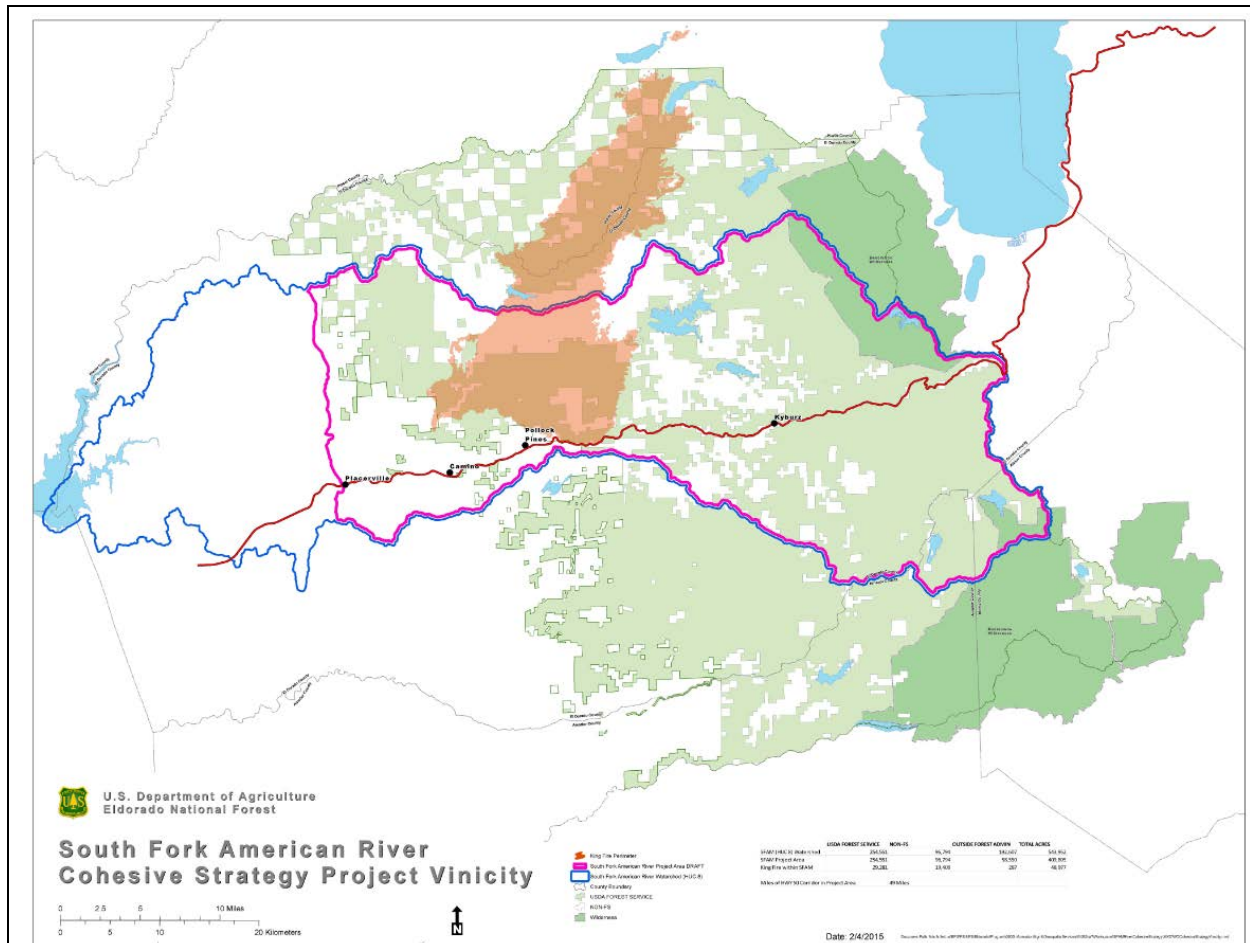
Appendix B Project Description Forms
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B.3.24 229 Cesar Fire Salvage Stewardship

Project/Program Name	<i>Cesar Fire Salvage Stewardship</i>		
Responsible Agency	U.S. Forest Service		
Partner Agency (ies)	NA		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$1,891,998.00		
Unit Cost	\$1,377/Acre		
Site Coordinates	Latitude: 38.903528°	Longitude: -120.570911°	
Description			
This project will involve removing dead trees in the King Fire Area. This project will occur in 1,374 acres of the King Fire footprint.			
Component			
Watershed Management			
Potential Challenges			
Increased fire risk due to drought			
Conceptual GIS Map of Site			
Project would occur within the area that was impacted by the King Fire in the County of El Dorado (orange area in the map).			

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https://www.fs.usda.gov/Internet/FSE_MEDIA/fseprd528765.jpg

Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		U.S. Forest Service
Stage of Development		
<input type="checkbox"/> Conceptual <input type="checkbox"/> Design	<input checked="" type="checkbox"/> Planning <input type="checkbox"/> Construction	<input type="checkbox"/> Pre-Design <input type="checkbox"/> Other
Project Implementation Underway		
Expected Project Timeline	Begin: 2018, End: 2020	

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Project Triggers	Extreme climate conditions																									
Potentially Applicable Federal and State Programs for Technical and Financial Assistance																										
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program U.S. Department of the Interior (DOI) - Bureau of Reclamation - Cooperative Watershed Management Program																										
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):																										
■ Primary ■ Opportunity																										
<table border="1"> <thead> <tr> <th>Benefit Category</th> <th>Main Benefit</th> <th>Additional Benefit</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i></td> <td rowspan="2">Increased filtration and/or treatment of runoff</td> <td>Nonpoint source pollution control</td> </tr> <tr> <td>Reestablished natural water drainage and treatment</td> </tr> <tr> <td rowspan="2">Water Supply <i>through groundwater management and/or runoff capture and use</i></td> <td>Water supply reliability</td> <td rowspan="2">Water conservation</td> </tr> <tr> <td>Conjunctive use</td> </tr> <tr> <td>Flood Management</td> <td>Decrease flood risk by reducing runoff rate and/or volume</td> <td>Reduced sanitary sewer overflows</td> </tr> <tr> <td rowspan="3">Environmental</td> <td rowspan="2">Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement</td> <td>Reduced energy use, GHG emission, or provides a carbon sink</td> </tr> <tr> <td>Reestablishment of the natural hydrograph</td> </tr> <tr> <td>Increased urban green space</td> <td>Water temperature improvements</td> </tr> <tr> <td rowspan="2">Community</td> <td>Employment opportunities provided</td> <td>Community involvement</td> </tr> <tr> <td>Public education</td> <td>Enhance and/or create recreational and public use areas</td> </tr> </tbody> </table>		Benefit Category	Main Benefit	Additional Benefit	Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control	Reestablished natural water drainage and treatment	Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation	Conjunctive use	Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows	Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink	Reestablishment of the natural hydrograph	Increased urban green space	Water temperature improvements	Community	Employment opportunities provided	Community involvement	Public education	Enhance and/or create recreational and public use areas
Benefit Category	Main Benefit	Additional Benefit																								
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control																								
		Reestablished natural water drainage and treatment																								
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation																								
	Conjunctive use																									
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows																								
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink																								
		Reestablishment of the natural hydrograph																								
	Increased urban green space	Water temperature improvements																								
Community	Employment opportunities provided	Community involvement																								
	Public education	Enhance and/or create recreational and public use areas																								
<p>This large fuel break project will help reduce non-point source pollution as the amount of organic matter that may make its way to local water bodies will be reduced. Given the large area that this project will cover this project will be able to enhance and protect the local environment. Consequently, this project will be able to create employment opportunities that are both short –term and long-term. This project will engage the community and enhance local recreational and public use areas.</p>																										
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project not added to IRWM currently</u>																									
Project Benefits a DAC/EDA: ¹	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No _____																									
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>CEQA will not be completed</u>																									

WEST SLOPE STORMWATER RESOURCE PLAN

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Contact Person(s):
Kendal Young, Ph.D. , South Fork American River Cohesive Strategy Forest Service, kendalyoung@fs.fed.us , (530)-621-5259
Key References:
NA
Supplemental Information (e.g., Project Webpage or equivalent):
NA

¹DAC = Disadvantaged Communities
EDA = Economically Distressed Area

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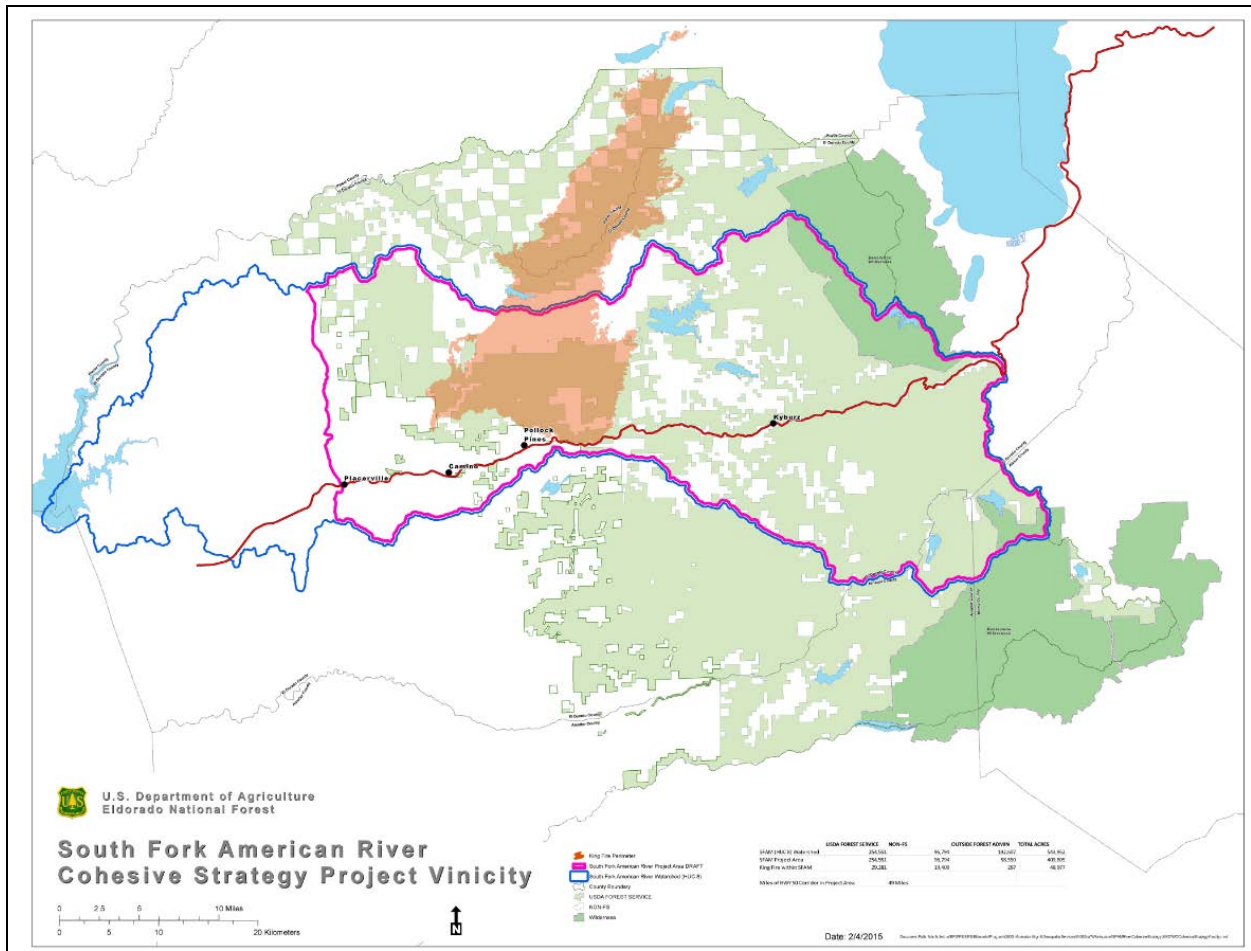
Appendix B Project Description Forms
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B.3.25 230 2-Chaix Fire Thinning

Project/Program Name	<i>2-Chaix Fire Thinning</i>		
Responsible Agency	U.S. Forest Service		
Partner Agency (ies)	NA		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$1,721,250.00		
Unit Cost	\$1,377/Acre		
Site Coordinates	Latitude: 38.839482°	Longitude: -120.572369	
Description			
<p>This is a pre-commercial thinning project that will occur in the King Fire affected area. The pre-commercial thinning will help suppress the risk of wildfires. In conducting this project slower-growing or trees that are defective will generate more space for the trees that remain. In thinning the forest, more water and soil nutrients will be available for the trees that remain which will help them grow larger and healthier in a shorter time period. This project will cover approximately 1,250 acres.</p>			
Component			
Watershed Management			
Potential Challenges			
<p>Competing Resources Bark Beetle infestation due to prolonged drought Increased fire risk due to drought</p>			
Conceptual GIS Map of Site			
<p><i>Project would occur within the area that was impacted by the King Fire in the County of El Dorado (orange area in the map).</i></p>			

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https://www.fs.usda.gov/Internet/FSE_MEDIA/fseprd528765.jpg

Purpose(s)		Key Stakeholders	
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		U.S. Forest Service	
Stage of Development			
<input type="checkbox"/> Conceptual <input type="checkbox"/> Design		<input checked="" type="checkbox"/> Planning <input type="checkbox"/> Construction <input type="checkbox"/> Pre-Design <input type="checkbox"/> Other	
Project Implementation Underway			
Expected Project Timeline	Begin: 2018, End: 2020		

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Project Triggers	Extreme Climate Conditions	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program U.S. Department of the Interior (DOI) - Bureau of Reclamation - Cooperative Watershed Management Program		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas
<p>Given the large area that this project will cover this project will be able to enhance and protect the local environment. Consequently, this project will be able to create employment opportunities that are both short-term and long-term. This project will engage the community and enhance local recreational and public use areas.</p>		
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project not added to IRWM currently</u>	
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one <u>Project can be found in DAC Block Groups 2010-2014 as identified by the CA Department of Water Resources</u> <input type="checkbox"/> No _____	
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>CEQA will not be completed</u>	

WEST SLOPE STORMWATER RESOURCE PLAN

Appendix B Project Description Forms
March 2018

Contact Person(s):
Kendal Young, Ph.D. , South Fork American River Cohesive Strategy Forest Service, kendalyoung@fs.fed.us , (530)-621-5259
Key References:
NA
Supplemental Information (e.g., Project Webpage or equivalent):
NA

¹DAC = Disadvantaged Communities
EDA = Economically Distressed Area

WEST SLOPE STORMWATER RESOURCE PLAN

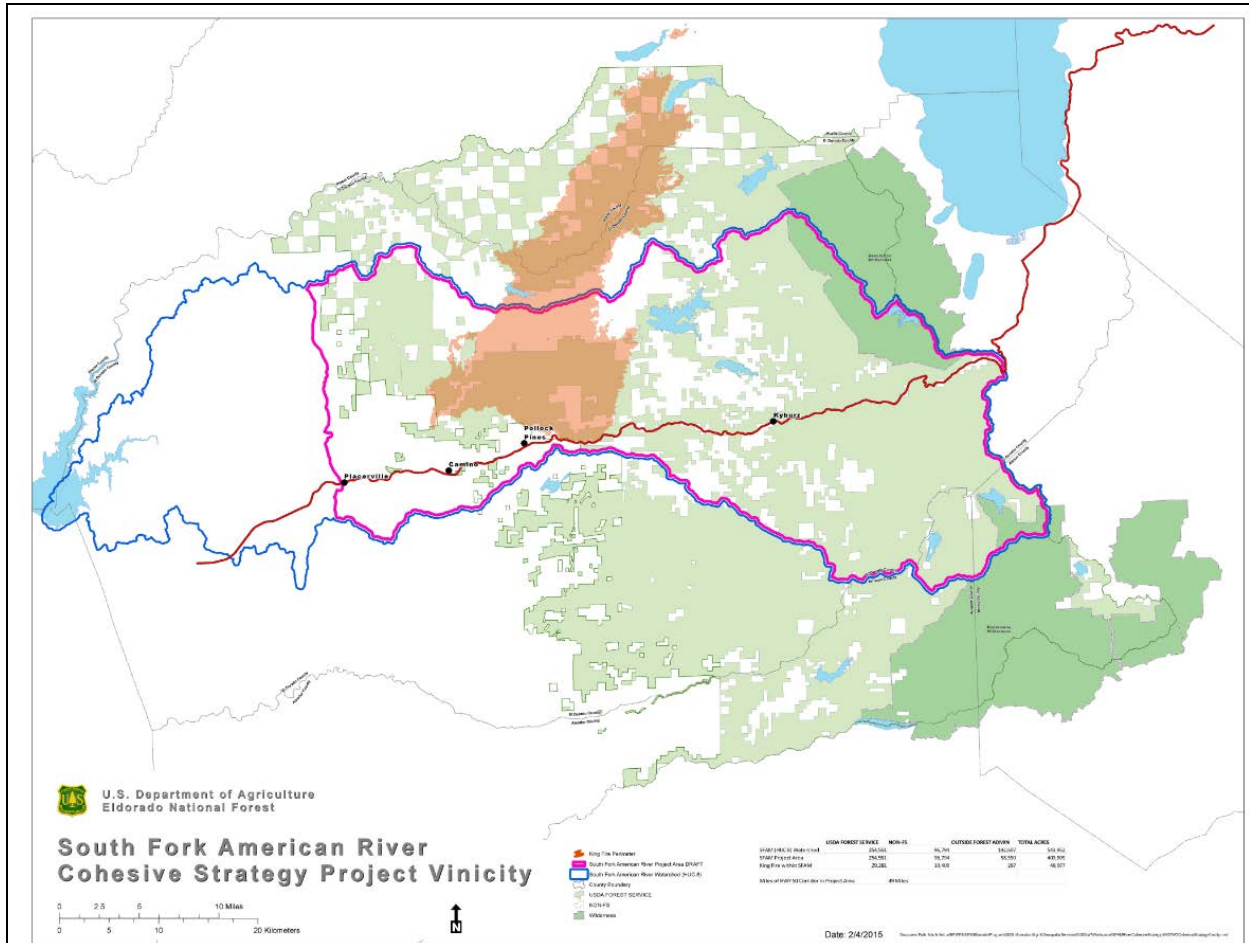
Appendix B Project Description Forms
 March 2018

B.3.26 231 Pompeii Fire Salvage Stewardship

Project/Program Name	<i>Pompeii Fire Salvage Stewardship</i>		
Responsible Agency	U.S. Forest Service		
Partner Agency (ies)	NA		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$1,377,000.00		
Unit Cost	\$1,377/Acre		
Site Coordinates	Latitude: 38.819795°	Longitude: -120.550343°	
Description			
<p>Within the King Fire footprint, this project will remove 937 acres of commercially valuable dead trees. The stewardship component will use some of the sales revenue to remove other small diameter biomass for fuel reduction and to prepare for reforestation. Snag patches will be left in the project area for wildlife, especially woodpeckers who thrive on the insects that inhabit dead trees.</p>			
Component			
Watershed Management			
Potential Challenges			
<p>Competing Resources Bark Beetle infestation due to prolonged drought Increased fire risk due to drought</p>			
Conceptual GIS Map of Site			
<p>Project would occur within the area that was impacted by the King Fire in the County of El Dorado (orange area in the map).</p>			

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https://www.fs.usda.gov/Internet/FSE_MEDIA/fseprd528765.jpg

Purpose(s)		Key Stakeholders
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Stage of Development		
<input type="checkbox"/> Conceptual <input type="checkbox"/> Design	<input checked="" type="checkbox"/> Planning <input type="checkbox"/> Construction	<input type="checkbox"/> Pre-Design <input type="checkbox"/> Other
Project Implementation Underway		
Expected Project Timeline	Begin: 2018, End: 2020	

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Project Triggers	Extreme Climate Conditions																									
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California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program U.S. Department of the Interior (DOI) - Bureau of Reclamation - Cooperative Watershed Management Program																										
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March 2018

Contact Person(s):
Kendal Young, Ph.D. , South Fork American River Cohesive Strategy Forest Service, kendalyoung@fs.fed.us, (530)-621-5259
Key References:
NA
Supplemental Information (e.g., Project Webpage or equivalent):
NA

¹DAC = Disadvantaged Communities
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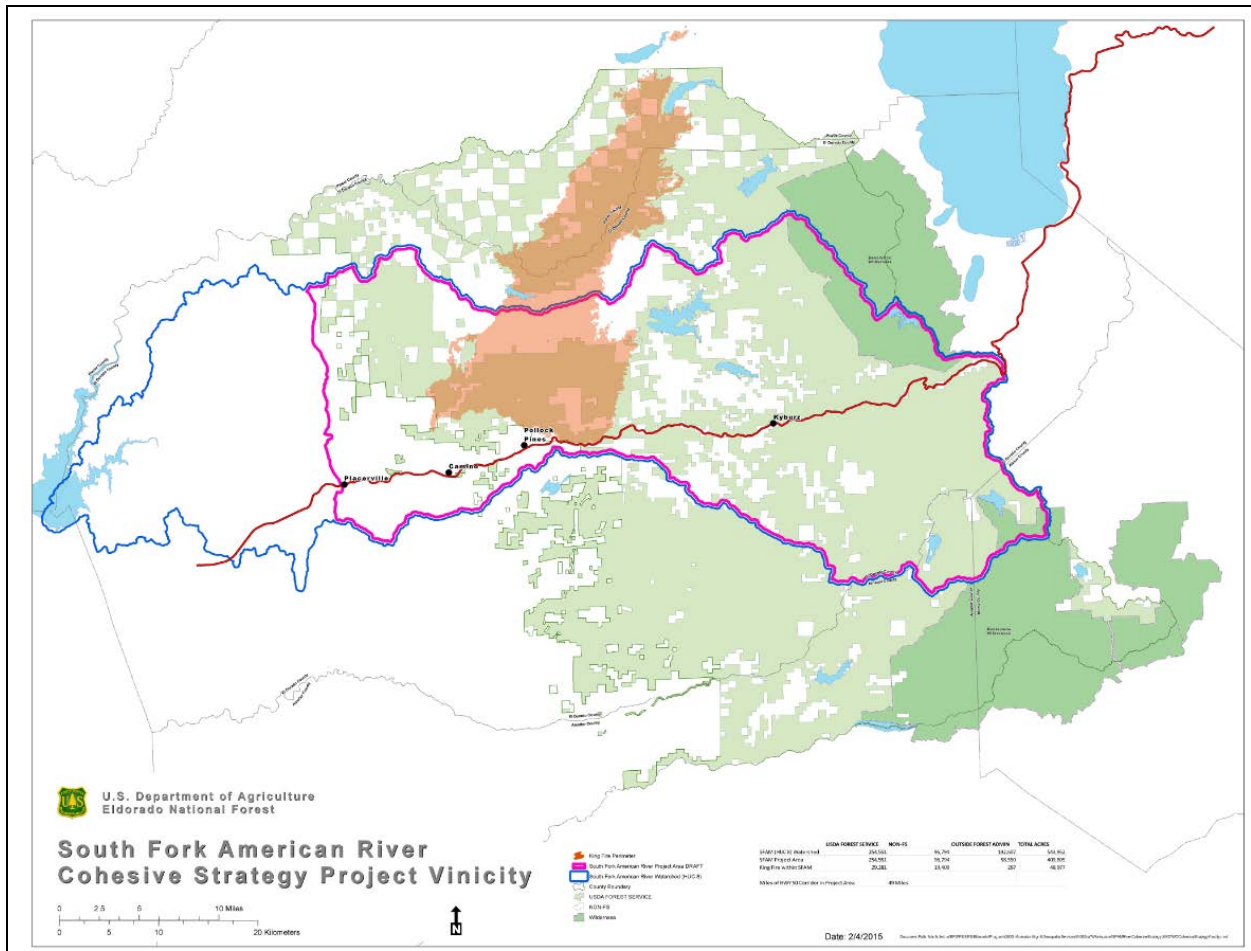
Appendix B Project Description Forms
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B.3.27 232 Quidazoic Fire Salvage Stewardship

Project/Program Name	<i>Quidazoic Fire Salvage Stewardship</i>		
Responsible Agency	U.S. Forest Service		
Partner Agency (ies)	NA		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$1,377,000.00		
Unit Cost	\$1,377/Acre		
Site Coordinates	Latitude: 38.769698°	Longitude: -120.563883°	
Description			
<p>The Quidazoic Fire Salvage Stewardship Project is located on the Pacific Ranger District, Eldorado National Forest where the King Fire occurred. Under this project, mastication, biomass cutting and piling on 584 acres will occur. Additionally, there will be biomass cutting and decking on 920 acres, 45 miles of road maintenance, road construction, and the removal of approximately 10 million board feet of timber. This project will benefit approximately 1,000 acres.</p>			
Component			
Watershed Management			
Potential Challenges			
<p>Competing Resources Bark Beetle infestation due to prolonged drought Increased fire risk due to drought</p>			
Conceptual GIS Map of Site			
<p>Project would occur within the area that was impacted by the King Fire in the County of El Dorado (orange area in the map).</p>			

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https://www.fs.usda.gov/Internet/FSE_MEDIA/fseprd528765.jpg

Purpose(s)		Key Stakeholders
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Stage of Development		
<input type="checkbox"/> Conceptual <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Pre-Design		<input type="checkbox"/> Design <input type="checkbox"/> Construction <input type="checkbox"/> Other
Project Implementation Underway		
Expected Project Timeline	Begin: 2018, End: 2020	

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California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program U.S. Department of the Interior (DOI) - Bureau of Reclamation - Cooperative Watershed Management Program																										
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):																										
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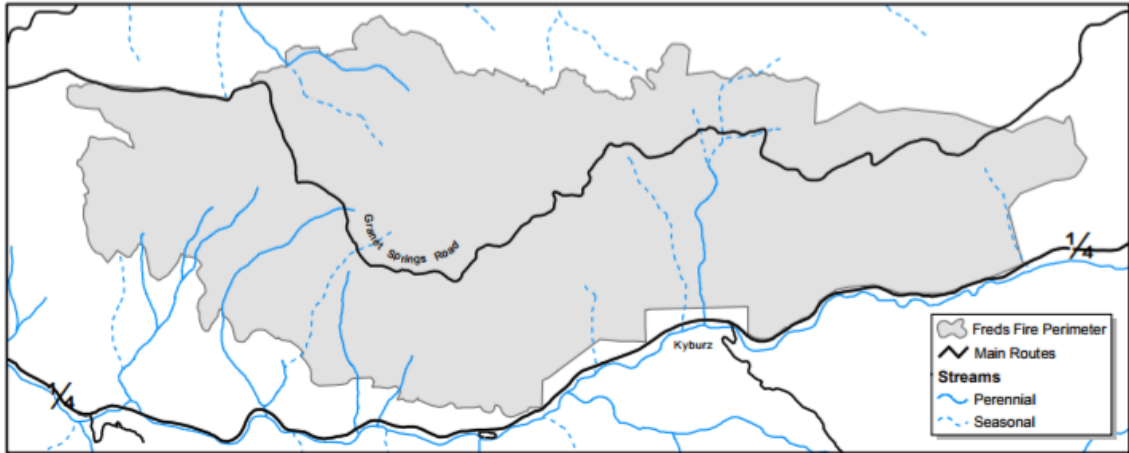
Contact Person(s):
Kendal Young, Ph.D. , South Fork American River Cohesive Strategy Forest Service, kendalyoung@fs.fed.us , (530)-621-5259
Key References:
NA
Supplemental Information (e.g., Project Webpage or equivalent):
NA

¹DAC = Disadvantaged Communities
EDA = Economically Distressed Area

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B.3.28 233 Fred's Noxious Weed Treatment-Vegetation Management

Project/Program Name	<i>Fred's Noxious Weed Treatment-Vegetation Management</i>		
Responsible Agency	U.S. Forest Service		
Partner Agency (ies)	NA		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$688,500.00		
Unit Cost	\$1,377/Acre		
Site Coordinates	Latitude: 38.814296°	Longitude: -120.512972°	
Description			
This project is set to occur within the Fred's Fire Footprint, north of Kyburz. By implementing this project, the amount of noxious weeds presented in the area affected by Fred's Fire will be managed and controlled. Approximately 500 acres will be treated.			
Component			
Watershed Management			
Potential Challenges			
Increased fire risk due to drought			
Conceptual GIS Map of Site			
Project will occur in the Fred's Fire affected area.			
 <p>The map displays the Fred's Fire Perimeter as a grey shaded area. A network of black lines represents Main Routes, with 'Granite Springs Road' and 'Kyburz' specifically labeled. Blue lines indicate Streams, with solid lines for Perennial and dashed lines for Seasonal. A legend in the bottom right corner defines these symbols. A scale bar in the bottom right corner shows a distance of 1/4 mile.</p>			
https://www.fs.usda.gov/Internet/FSE_DOCUMENTS/fsbdev7_018928.pdf			

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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		U.S. Forest Service
Stage of Development		
<input type="checkbox"/> Conceptual <input type="checkbox"/> Design		<input checked="" type="checkbox"/> Planning <input type="checkbox"/> Construction <input type="checkbox"/> Other
Project Implementation		
Expected Project Timeline	Begin: 2015, End: 2019	
Project Triggers	Extreme Climate Conditions	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas

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Given the large area that this project will cover this project will be able to enhance and protect the local environment. Consequently, this project will be able to create employment opportunities that are both short –term and long-term. This project will engage the community and enhance local recreational and public use areas.	
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project not added to IRWM currently</u>
Project Benefits a DAC/EDAP: ¹	<input checked="" type="checkbox"/> Yes, which one <u>Project can be found in DAC Block Groups 2010-2014 as identified by the CA Department of Water Resources</u> <input type="checkbox"/> No _____
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>CEQA will not be completed</u>
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Key References:	
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¹DAC = Disadvantaged Communities
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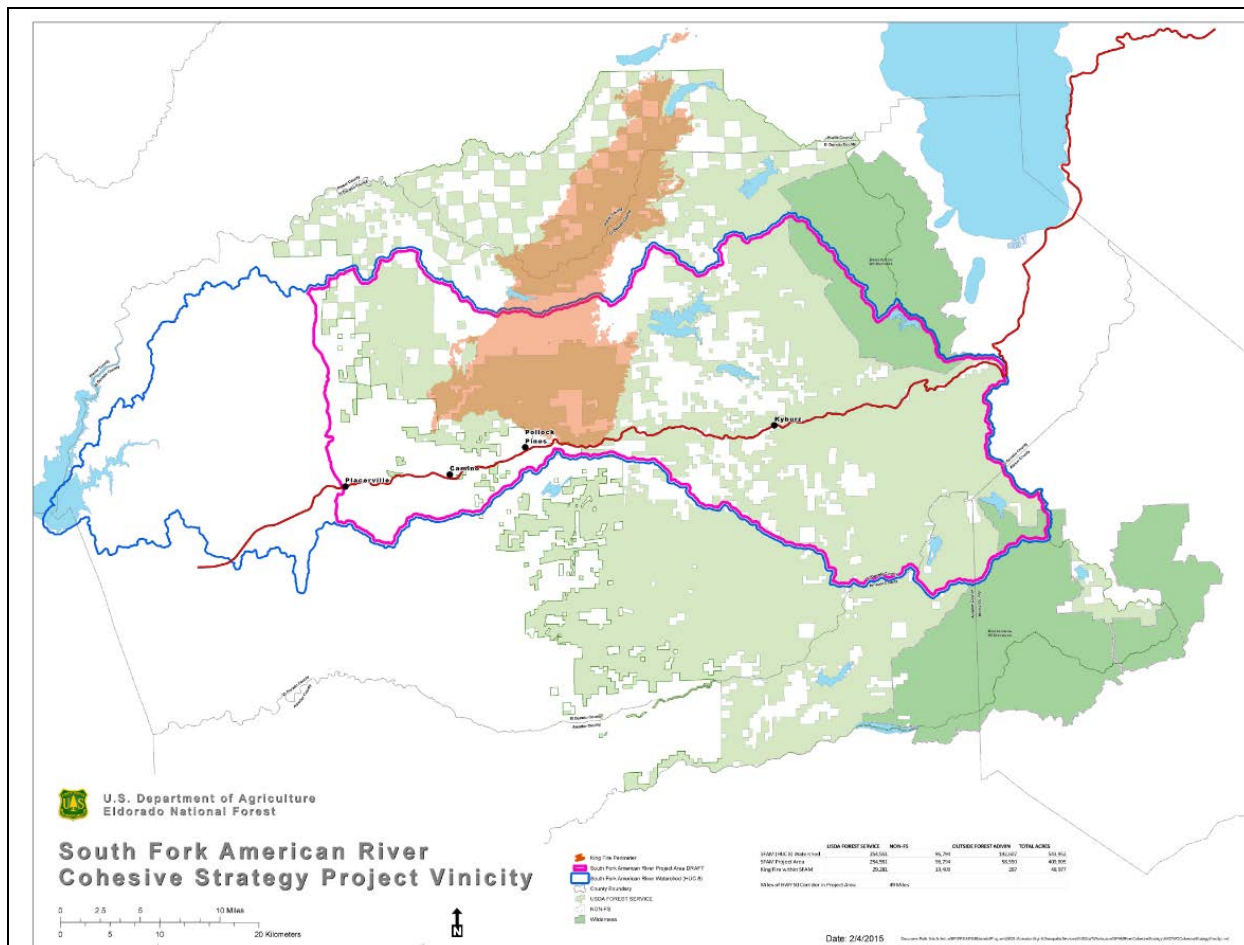
Appendix B Project Description Forms
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B.3.29 234 King Fire Pile Burning

Project/Program Name	<i>King Fire Pile Burning</i>		
Responsible Agency	U.S. Forest Service		
Partner Agency (ies)	NA		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$4,131,000.00		
Unit Cost	\$1,377/Acre		
Site Coordinates	Latitude: 38.809822°	Longitude: -120.558089°	
Description			
<p>Within the King Fire footprint, dead trees will be removed in which it will include burning piles of removed dead trees. This project will clear the affected King Fire area in order to get it ready for replanting trees and vegetation. This project will encompass a 3,000 acres.</p>			
Component			
Watershed Management			
Potential Challenges			
Increased fire risk due to drought			
Conceptual GIS Map of Site			
<p>Project would occur within the area that was impacted by the King Fire in the County of El Dorado (orange area in the map).</p>			

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Stage of Development		
<input type="checkbox"/> Conceptual <input type="checkbox"/> Design	<input checked="" type="checkbox"/> Planning <input type="checkbox"/> Construction	<input type="checkbox"/> Pre-Design <input type="checkbox"/> Other
Project Implementation		
Expected Project Timeline	Begin: 2015, End: 2018	

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Community	Employment opportunities provided	Community involvement																								
	Public education	Enhance and/or create recreational and public use areas																								
<p>Given the large area that this project will cover this project will be able to enhance and protect the local environment. Consequently, this project will be able to create employment opportunities that are both short –term and long-term. This project will engage the community and enhance local recreational and public use areas. This project will also be able to reduce nonpoint source pollution.</p>																										
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project not added to IRWM currently</u>																									
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one <u>Project Falls under the 2010-2014 DAC Block Groups as identified by the CA Department of Water Resources</u> <input type="checkbox"/> No _____																									
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>CEQA will not be completed</u>																									

WEST SLOPE STORMWATER RESOURCE PLAN

Appendix B Project Description Forms
March 2018

Contact Person(s):
Kendal Young, Ph.D. , South Fork American River Cohesive Strategy Forest Service, kendalyoung@fs.fed.us , (530)-621-5259
Key References:
NA
Supplemental Information (e.g., Project Webpage or equivalent):
NA

¹DAC = Disadvantaged Communities
EDA = Economically Distressed Area

WEST SLOPE STORMWATER RESOURCE PLAN

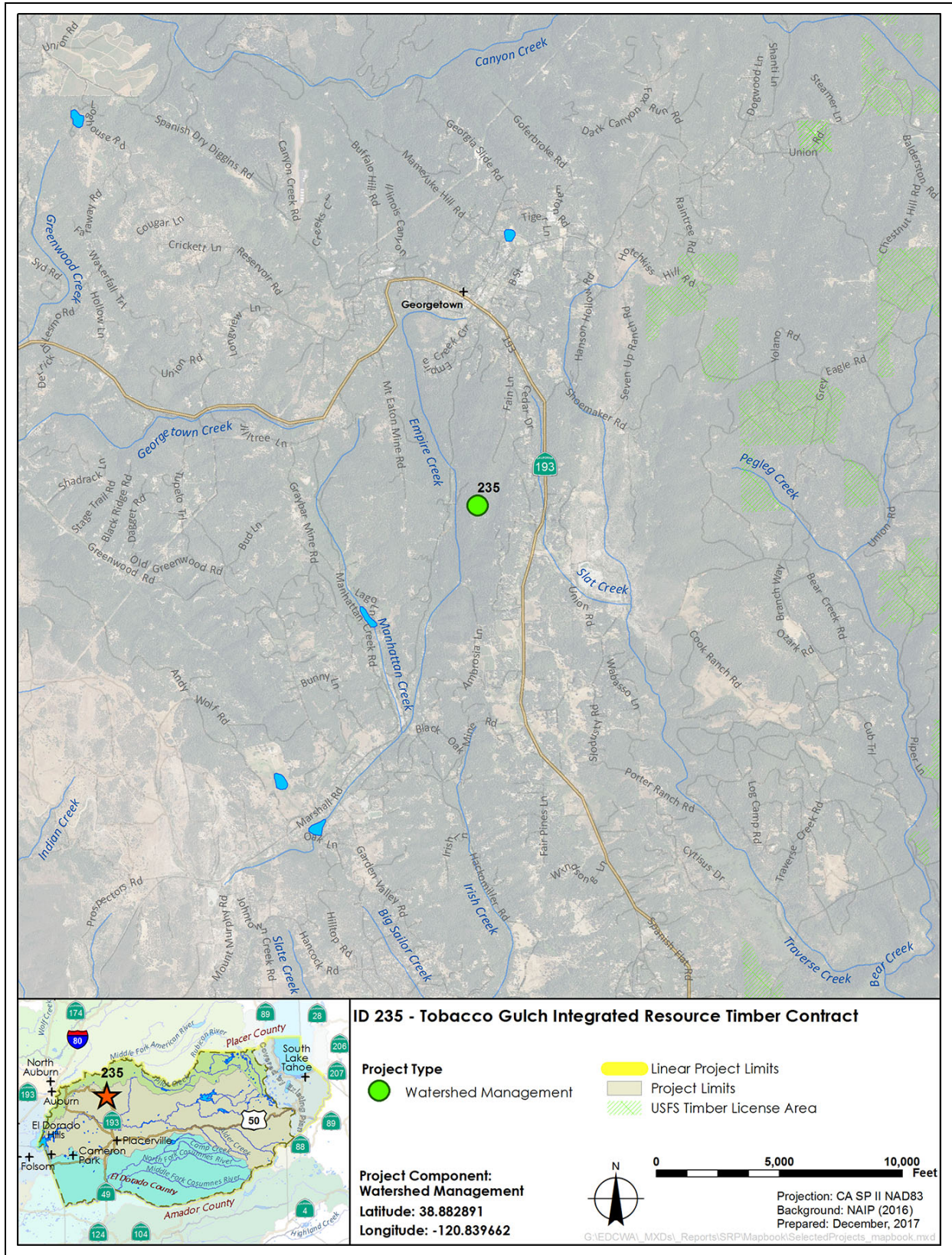
Appendix B Project Description Forms
 March 2018

B.3.30 235 Tobacco Gulch Integrated Resource Timber Contract-Timber Sale & Thinning Project

Project/Program Name		<i>Tobacco Gulch Integrated Resource Timber Contract-Timber Sale & Thinning Project</i>		
Responsible Agency		U.S. Forest Service		
Partner Agency (ies)		South Fork American River Cohesive Strategy, Tahoe-Central Sierra Initiative		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA	
Estimated Cost	Capital: \$1,652,400.00			
Unit Cost	\$1,377/Acre			
Site Coordinates	Latitude: 38.882891°		Longitude: -120.839662°	
Description				
<p>This project will occur near Darling Ridge, Mace Mill, and Traverse Creek on the Georgetown Ranger District, just south of Georgetown. This is a timber sale project that also involves pre-commercial thinning. The project is an integrated resource timber contract in which the value of the timber is much greater than the cost of the services used to sell the timber. Conducting this project will enhance local wildlife conditions such that wildlife that enjoy open sun filled spaces will be provided with more open sun filled spaces after trees have been cleared out. Additionally, timber projects like these will help maintain a healthy forest such that it will help remove trees that may have become affected by disease or pests. In other cases, removing trees can help prevent the spread of disease or simply provide better conditions for healthy trees to grow as they will receive access to more sunlight and space. This project will cover approximately 1,200 acres.</p>				
Component				
Watershed Management				
Potential Challenges				
Competing Resources Bark Beetle infestation due to prolonged drought Increased fire risk due to drought				
Conceptual GIS Map of Site				

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Appendix B Project Description Forms
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Appendix B Project Description Forms
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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		U.S. Forest Service, South Fork American River Cohesive Strategy, and Tahoe-Central Sierra Initiative
Stage of Development		
<input type="checkbox"/> Conceptual <input type="checkbox"/> Design		<input checked="" type="checkbox"/> Planning <input type="checkbox"/> Construction <input type="checkbox"/> Other
Expected Project Timeline	Begin: 2019, End: 2024	
Project Triggers	Extreme Climate Conditions	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program U.S. Department of the Interior (DOI) - Bureau of Reclamation - Cooperative Watershed Management Program		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas

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Given the large area that this project will cover this project will be able to enhance and protect the local environment. Consequently, this project will be able to create employment opportunities that are both short –term and long-term. This project will engage the community and enhance local recreational and public use areas.	
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project not added to IRWM currently</u>
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one <u>Project can be found in DAC Block Groups 2010-2014 as identified by the CA Department of Water Resources</u> <input type="checkbox"/> No _____
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>CEQA will be completed</u>
Contact Person(s):	
Kendal Young, Ph.D. , South Fork American River Cohesive Strategy Forest Service, kendalyoung@fs.fed.us , (530)-621-5259	
Key References:	
NA	
Supplemental Information (e.g., Project Webpage or equivalent):	
NA	

¹DAC = Disadvantaged Communities
 EDA = Economically Distressed Area

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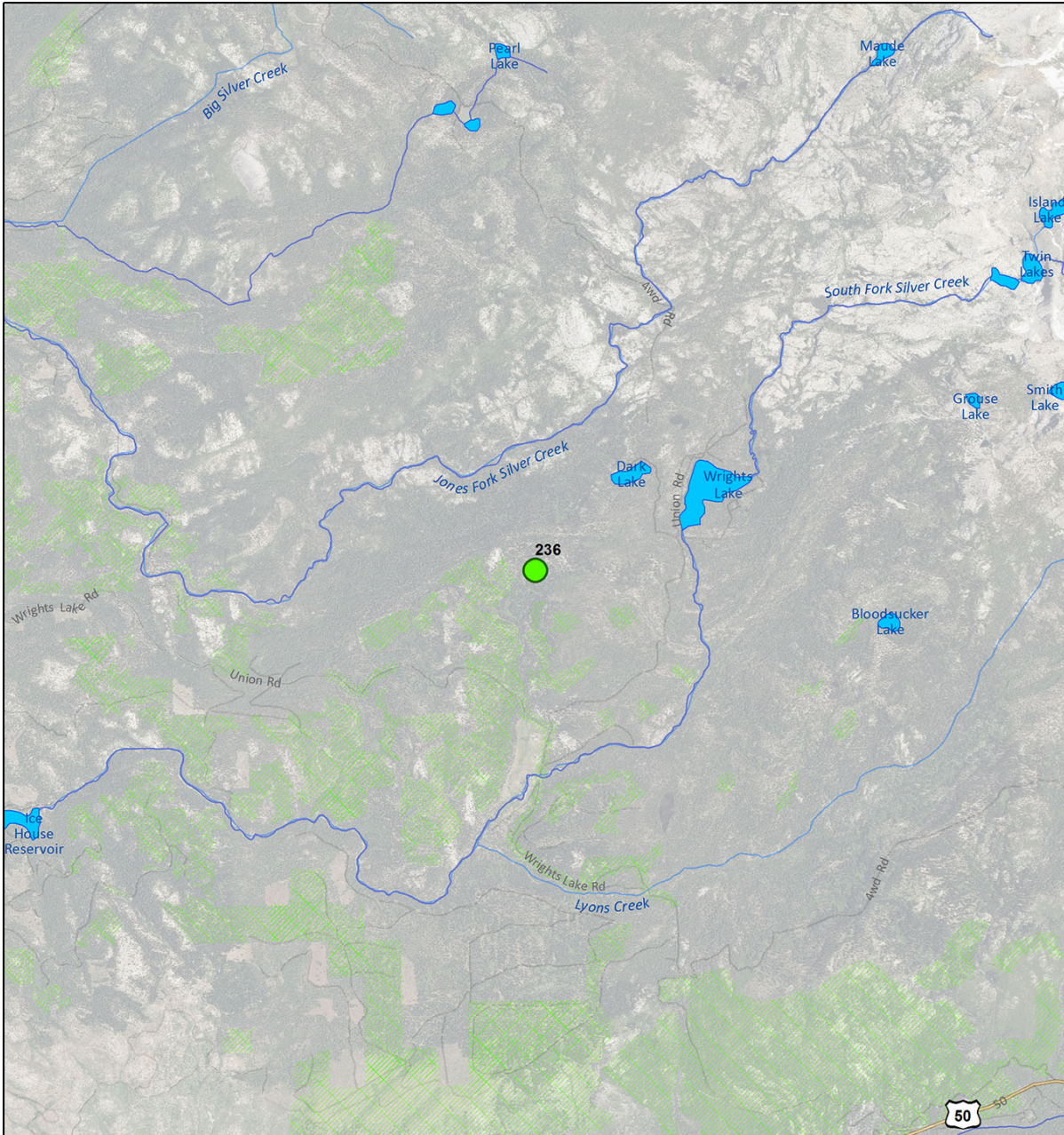
Appendix B Project Description Forms
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B.3.31 236 John Don't Fuels Reduction

Project/Program Name	<i>John Don't Fuels Reduction</i>		
Responsible Agency	U.S. Forest Service		
Partner Agency (ies)	South Fork American River Cohesive Strategy		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$5,852,250.00		
Unit Cost	\$1,377/Acre		
Site Coordinates	Latitude: 38.841659°	Longitude: -120.254126°	
Description			
<p>This is a commercial and pre-commercial thinning project that will occur in the County of El Dorado, Pacific RD, and the Crystal Basin Recreation Area near Wright's Lake (north of Kyburz). Conducting this project will help suppress fires and protect natural resources by controlling the amount of vegetation, controlling the amount invasive species, improving the rangeland for livestock grazing, improving fish and wildlife habitat, enhancing and protecting riparian areas and wetlands, and improving water quality. This project will cover approximately 4,250 acres.</p>			
Component			
Watershed Management			
Potential Challenges			
<p>Competing Resources</p> <p>Bark Beetle infestation due to prolonged drought</p> <p>Increased fire risk due to drought</p>			
Conceptual GIS Map of Site			

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Appendix B Project Description Forms
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ID 236 - John Don't Fuels Reduction

Project Type

● Watershed Management

Linear Project Limits

Project Limits

USFS Timber License Area

Project Component:
Watershed Management
Latitude: 38.841659
Longitude: -120.254126



0 5,000 10,000 Feet

Projection: CA SP II NAD83
Background: NAIP (2016)
Prepared: December, 2017

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WEST SLOPE STORMWATER RESOURCE PLAN

Appendix B Project Description Forms
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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		U.S. Forest Service and South Fork American River Cohesive Strategy
Stage of Development		
<input type="checkbox"/> Conceptual <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Pre-Design <input type="checkbox"/> Design <input type="checkbox"/> Construction <input type="checkbox"/> Other		
Expected Project Timeline	<i>Begin: 2019, End: 2024</i>	
Project Triggers	<i>High fire risk Spread of Bark Beetle infestation</i>	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program U.S. Department of the Interior (DOI) - Bureau of Reclamation - Cooperative Watershed Management Program		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas

WEST SLOPE STORMWATER RESOURCE PLAN

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<p>This project will help reduce non-point source pollution as the amount of organic matter that may make its way to local water bodies will be reduced. Given the large area that this project will cover this project will be able to enhance and protect the local environment. Consequently, this project will be able to create employment opportunities that are both short –term and long-term. This project will engage the community and enhance local recreational and public use areas.</p>	
<p>Project Included in IRWM:</p>	<p><input type="checkbox"/> Yes, which one _____</p> <p><input checked="" type="checkbox"/> No, explain <u>project not added to IRWM currently</u></p>
<p>Project Benefits a DAC/EDA:¹</p>	<p><input checked="" type="checkbox"/> Yes, which one <u>Project can be found in DAC Block Groups 2010-2014 as identified by the CA Department of Water Resources</u></p> <p><input type="checkbox"/> No _____</p>
<p>CEQA Compliance:</p>	<p><input type="checkbox"/> Yes, explain _____</p> <p><input checked="" type="checkbox"/> No, explain <u>CEQA has not been completed</u> _____</p>
<p>Contact Person(s):</p>	
<p>Kendal Young, Ph.D. , South Fork American River Cohesive Strategy Forest Service, kendalyoung@fs.fed.us, (530)-621-5259</p>	
<p>Key References:</p>	
<p>NA</p>	
<p>Supplemental Information (e.g., Project Webpage or equivalent):</p>	
<p>NA</p>	

¹DAC = Disadvantaged Communities
 EDA = Economically Distressed Area

WEST SLOPE STORMWATER RESOURCE PLAN

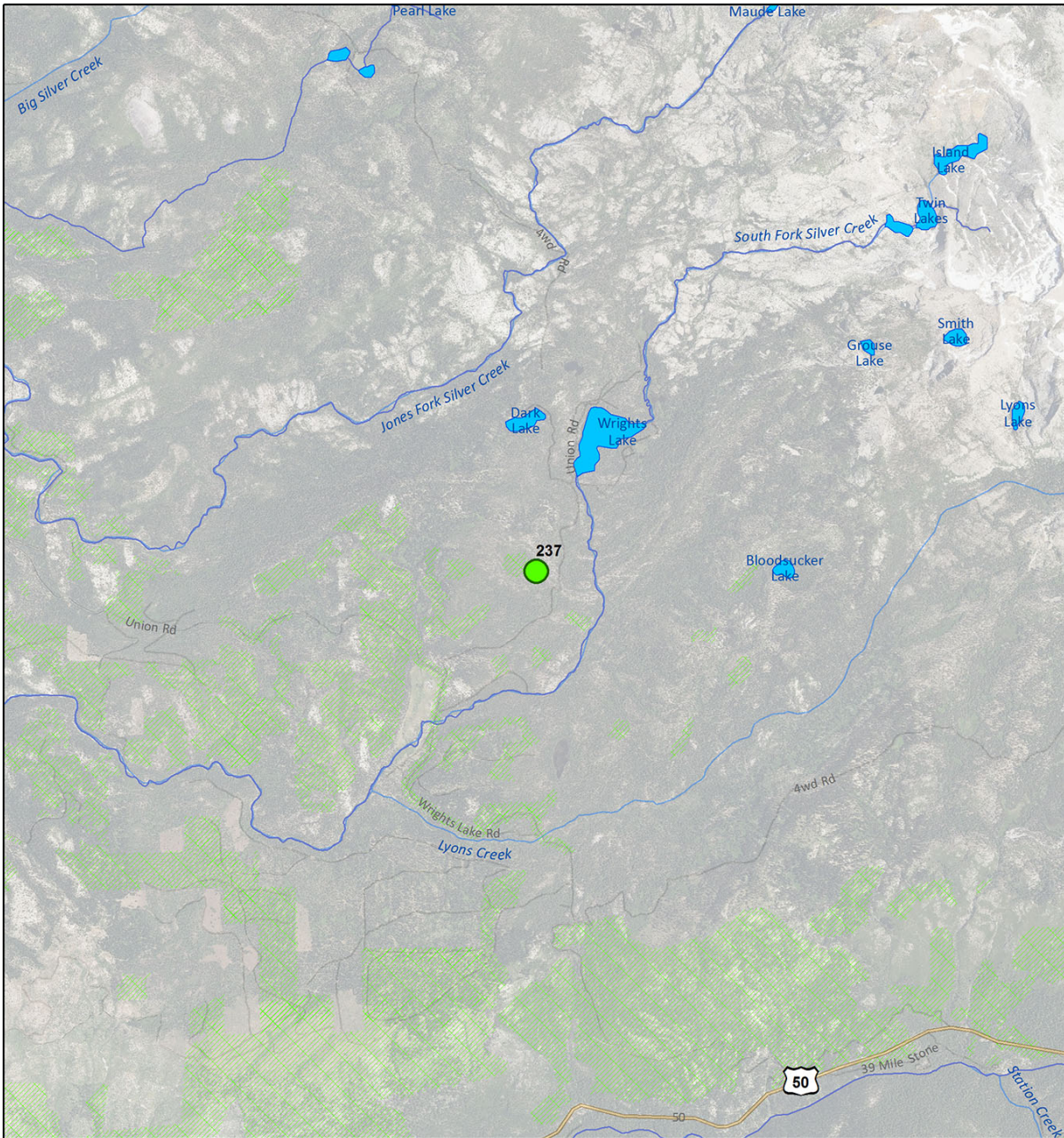
Appendix B Project Description Forms
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B.3.32 237 O’leary Cow Integrated Resource Service Contract/ Integrated Resource Timber Contract-Timber Sale & Thinning Project

Project/Program Name	<i>O’leary Cow Integrated Resource Service Contract/ Integrated Resource Timber Contract-Timber Sale & Thinning Project</i>		
Responsible Agency	U.S. Forest Service		
Partner Agency (ies)	South Fork American River Cohesive Strategy		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$564,570.00		
Unit Cost	\$1,377/Acre		
Site Coordinates	Latitude: 38.836207°	Longitude: -120.24107°	
Description			
<p>This project will occur in the County of El Dorado, Pacific RD, and the Crystal Basin Recreation Area near Wright’s Lake (north of Kyburz). This is ultimately a timber sale project that will also involve commercial and pre-commercial thinning. Conducting this project will enhance local wildlife conditions such that wildlife that enjoy open sun filled spaces will be provided with more open sun filled spaces after trees have been cleared out. Additionally, timber projects like these will help maintain a healthy forest such that it will help remove trees that may have become affected by disease or pests. In other cases, removing trees can help prevent the spread of disease or simply provide better conditions for healthy trees to grow as they will receive access to more sunlight and space. This project will cover approximately 410 acres.</p>			
Component			
Watershed Management			
Potential Challenges			
Competing Resources Bark Beetle infestation due to prolonged drought Increased fire risk due to drought			
Conceptual GIS Map of Site			

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Appendix B Project Description Forms
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ID 237 - O'leary Cow Integrated Resource Service Contract/ Integrated Resource Timber Contract

Project Type

● Watershed Management

Linear Project Limits

Project Limits

USFS Timber License Area

Project Component:
Watershed Management
Latitude: 38.836207
Longitude: -120.24107



0 5,000 10,000 Feet

Projection: CA SP II NAD83
Background: NAIP (2016)
Prepared: December, 2017

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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		U.S. Forest Service and South Fork American River Cohesive Strategy
Stage of Development		
<input type="checkbox"/> Conceptual <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Pre-Design <input type="checkbox"/> Design <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Other		
Planning Complete - awaiting implementation		
Expected Project Timeline	Begin: 2019, End: 2024	
Project Triggers	High fire risk Spread of Bark Beetle infestation	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program U.S. Department of the Interior (DOI) - Bureau of Reclamation - Cooperative Watershed Management Program		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas

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Given the large area that this project will cover this project will be able to enhance and protect the local environment. Consequently, this project will be able to create employment opportunities that are both short –term and long-term. This project will engage the community and enhance local recreational and public use areas.	
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project not added to IRWM currently</u>
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one <u>Project can be found in DAC Block Groups 2010-2014 as identified by the CA Department of Water Resources</u> <input type="checkbox"/> No _____
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>CEQA has not been completed</u>
Contact Person(s):	
Kendal Young, Ph.D. , South Fork American River Cohesive Strategy Forest Service, kendalyoung@fs.fed.us , (530)-621-5259	
Key References:	
NA	
Supplemental Information (e.g., Project Webpage or equivalent):	
NA	

¹DAC = Disadvantaged Communities
 EDA = Economically Distressed Area

WEST SLOPE STORMWATER RESOURCE PLAN

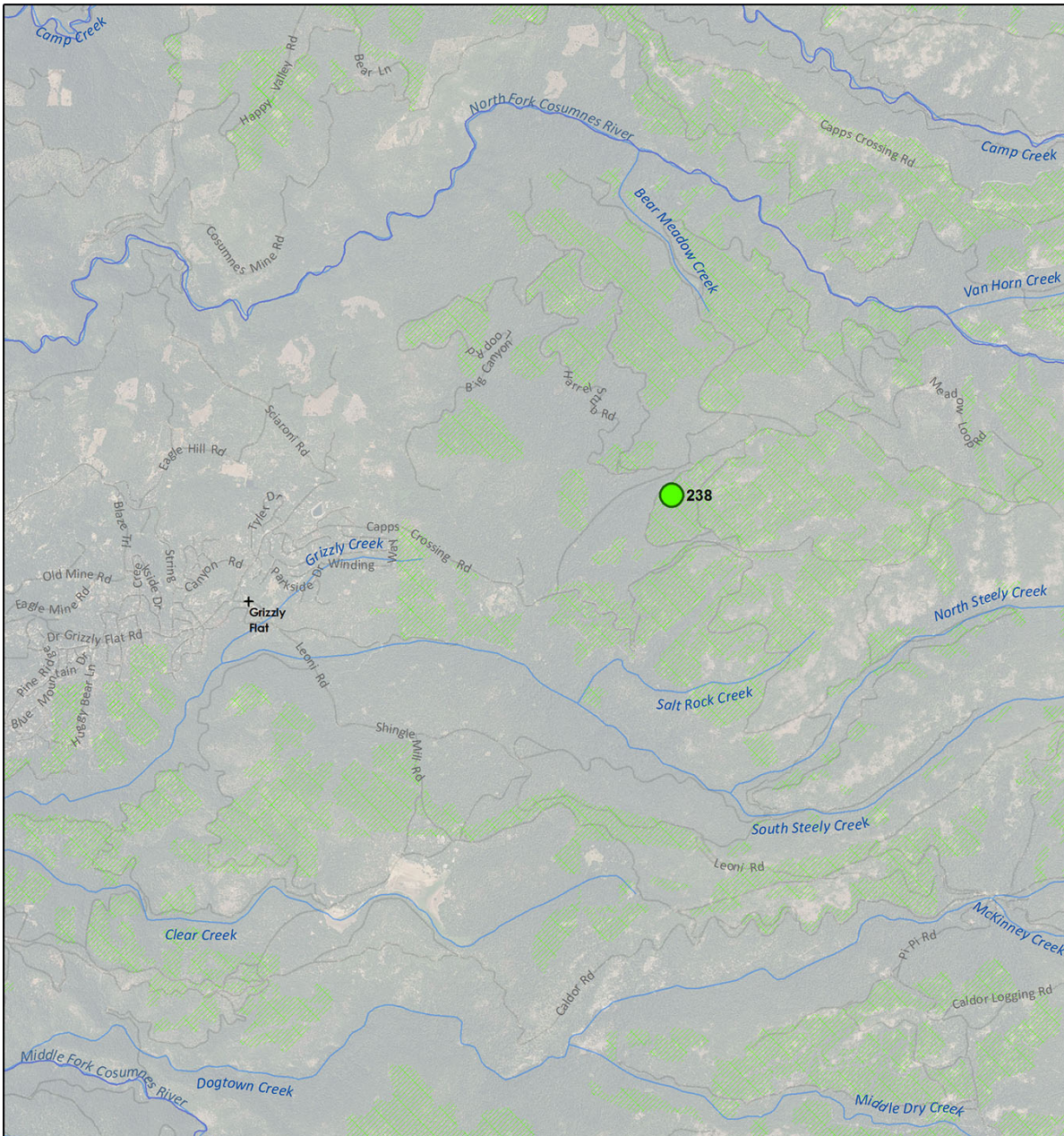
Appendix B Project Description Forms
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B.3.33 238 Trestle Integrated Resource Timber Contract-Timber Sale

Project/Program Name	<i>Trestle Integrated Resource Timber Contract-Timber Sale</i>		
Responsible Agency	U.S. Forest Service		
Partner Agency (ies)	NA		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$5,508,000.00		
Unit Cost	\$1,377/Acre		
Site Coordinates	Latitude: 38.645591°	Longitude: -120.473589°	
Description			
<p>This is a timber sale project that will occur south of Kyburz, East of Grizzly Flats. Conducting this project will enhance local wildlife conditions such that wildlife that enjoy open sun filled spaces will be provided with more open sun filled spaces after trees have been cleared out. Additionally, timber projects like these will help maintain a healthy forest such that it will help remove trees that may have become affected by disease or pests. In other cases, removing trees can help prevent the spread of disease or simply provide better conditions for healthy trees to grow as they will receive access to more sunlight and space. This project will also include commercial and non-commercial fuels reduction. This project will cover approximately 4,000 acres.</p>			
Component			
Watershed Management			
Potential Challenges			
<p>Competing Resources</p> <p>Bark Beetle infestation due to prolonged drought</p> <p>Increased fire risk due to drought</p>			
Conceptual GIS Map of Site			

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ID 238 - Trestle Integrated Resource Timber Contract

Project Type

- Linear Project Limits
- Watershed Management
- Project Limits
- USFS Timber License Area

Project Component:
Watershed Management

Latitude: 38.645591
Longitude: -120.473589

0 5,000 10,000 Feet

Projection: CA SP II NAD83
Background: NAIP (2016)
Prepared: December, 2017

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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		U.S. Forest Service
Stage of Development		
<input type="checkbox"/> Conceptual <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Pre-Design <input type="checkbox"/> Design <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Other		
Planning Complete - awaiting implementation		
Expected Project Timeline	Begin: 2019, End: 2024	
Project Triggers	High fire risk Spread of Bark Beetle infestation	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program U.S. Department of the Interior (DOI) - Bureau of Reclamation - Cooperative Watershed Management Program		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas

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Given the large area that this project will cover this project will be able to enhance and protect the local environment. Consequently, this project will be able to create employment opportunities that are both short –term and long-term. This project will engage the community and enhance local recreational and public use areas.	
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project not added to IRWM currently</u>
Project Benefits a DAC/EDA: ¹	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No _____
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>CEQA has not been completed</u>
Contact Person(s):	
Kendal Young, Ph.D. , South Fork American River Cohesive Strategy Forest Service, kendalyoung@fs.fed.us , (530)-621-5259	
Key References:	
NA	
Supplemental Information (e.g., Project Webpage or equivalent):	
NA	

¹DAC = Disadvantaged Communities
 EDA = Economically Distressed Area

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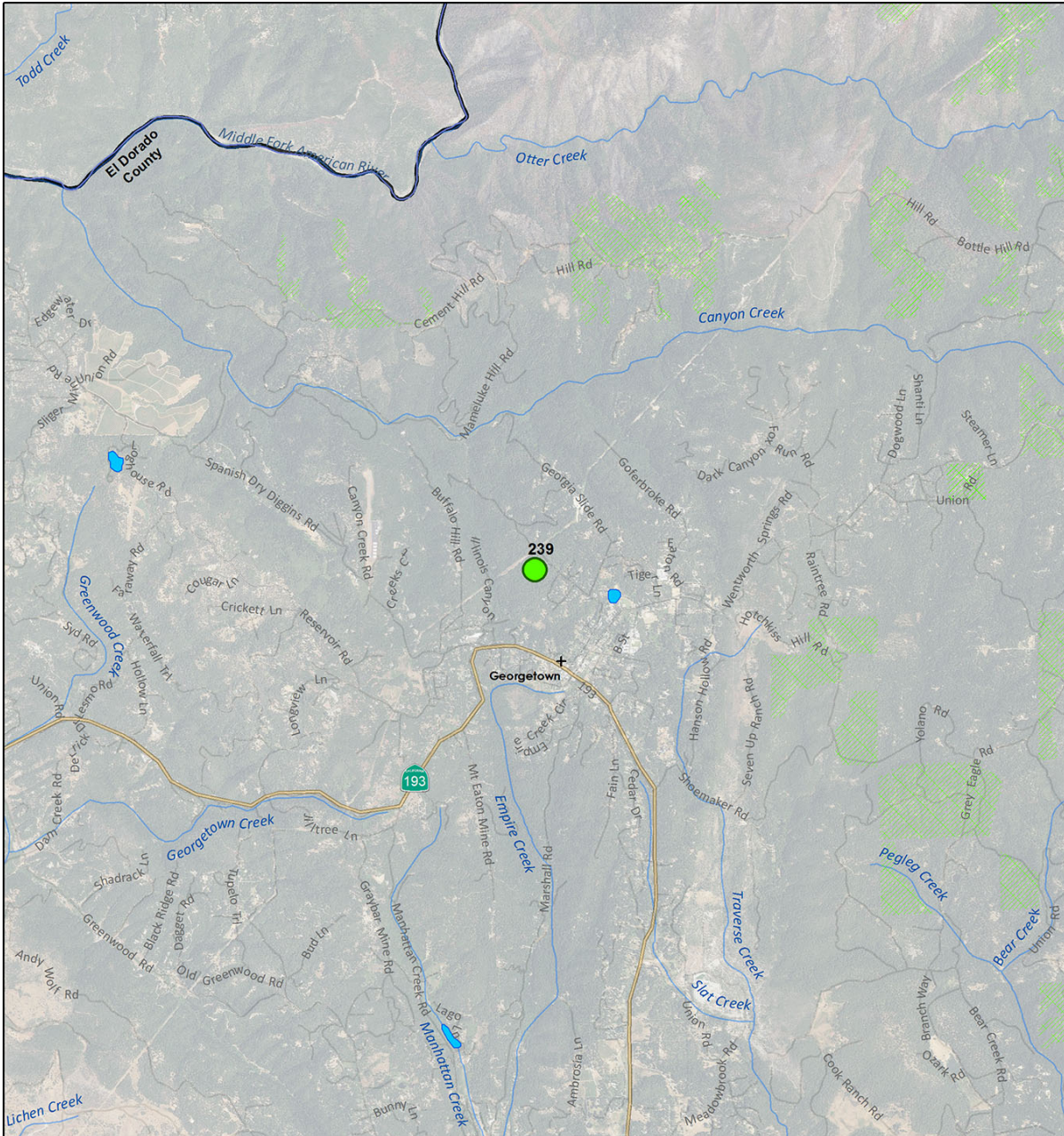
Appendix B Project Description Forms
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B.3.34 239 Georgetown Insect Salvage Timber Sale

Project/Program Name	<i>Georgetown Insect Salvage Timber Sale</i>		
Responsible Agency	U.S. Forest Service		
Partner Agency (ies)	NA		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$413,100.00		
Unit Cost	\$1,377/Acre		
Site Coordinates	Latitude: 38.915613°	Longitude: -120.844399°	
Description			
<p>Several trees near Georgetown were affected with beetle kill. As a result this project is a salvage timber sale project that is set to occur in the following locations: LEGAL - T11N R11E S12; T11N R12E S5-7; T12N R11E S4,9-10,15,16; T13N R11E S10,14, 15,27,28,32,33 or within or adjacent to high use areas. Conducting this project will help maintain a healthy forest such that it will help remove trees that have become affected by beetle kill. This project will cover approximately 300 acres.</p>			
Component			
Watershed Management			
Potential Challenges			
<p>Competing Resources</p> <p>Bark Beetle infestation due to prolonged drought</p> <p>Increased fire risk due to drought</p>			
Conceptual GIS Map of Site			

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Appendix B Project Description Forms
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ID 239 - Georgetown Insect Salvage Timber Sale

Project Type

● Watershed Management

Linear Project Limits

Project Limits

USFS Timber License Area

Project Component:
Watershed Management
Latitude: 38.915613
Longitude: -120.844399



0 5,000 10,000 Feet

Projection: CA SP II NAD83
Background: NAIP (2016)
Prepared: December, 2017

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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		U.S. Forest Service
Stage of Development		
<input type="checkbox"/> Conceptual <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Pre-Design <input type="checkbox"/> Design <input type="checkbox"/> Construction <input type="checkbox"/> Other		
Expected Project Timeline	Begin: 2019, End: 2024	
Project Triggers	High fire risk Spread of Bark Beetle infestation	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program U.S. Department of the Interior (DOI) - Bureau of Reclamation - Cooperative Watershed Management Program		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas

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<p>Given the large area that this project will cover this project will be able to enhance and protect the local environment. Consequently, this project will be able to create employment opportunities that are both short –term and long-term. This project will engage the community and enhance local recreational and public use areas.</p>	
<p>Project Included in IRWM:</p>	<p><input type="checkbox"/> Yes, which one _____</p> <p><input checked="" type="checkbox"/> No, explain <u>project not added to IRWM currently</u></p>
<p>Project Benefits a DAC/EDA:¹</p>	<p><input checked="" type="checkbox"/> Yes, which one <u>Project can be found in DAC Places 2010-2014 as identified by the CA Department of Water Resources</u></p> <p><input type="checkbox"/> No _____</p>
<p>CEQA Compliance:</p>	<p><input type="checkbox"/> Yes, explain _____</p> <p><input checked="" type="checkbox"/> No, explain <u>CEQA has not been completed</u></p>
<p>Contact Person(s):</p>	
<p>Kendal Young, Ph.D. , South Fork American River Cohesive Strategy Forest Service, kendalyoung@fs.fed.us, (530)-621-5259</p>	
<p>Key References:</p>	
<p>NA</p>	
<p>Supplemental Information (e.g., Project Webpage or equivalent):</p>	
<p>NA</p>	

¹DAC = Disadvantaged Communities
EDA = Economically Distressed Area

WEST SLOPE STORMWATER RESOURCE PLAN

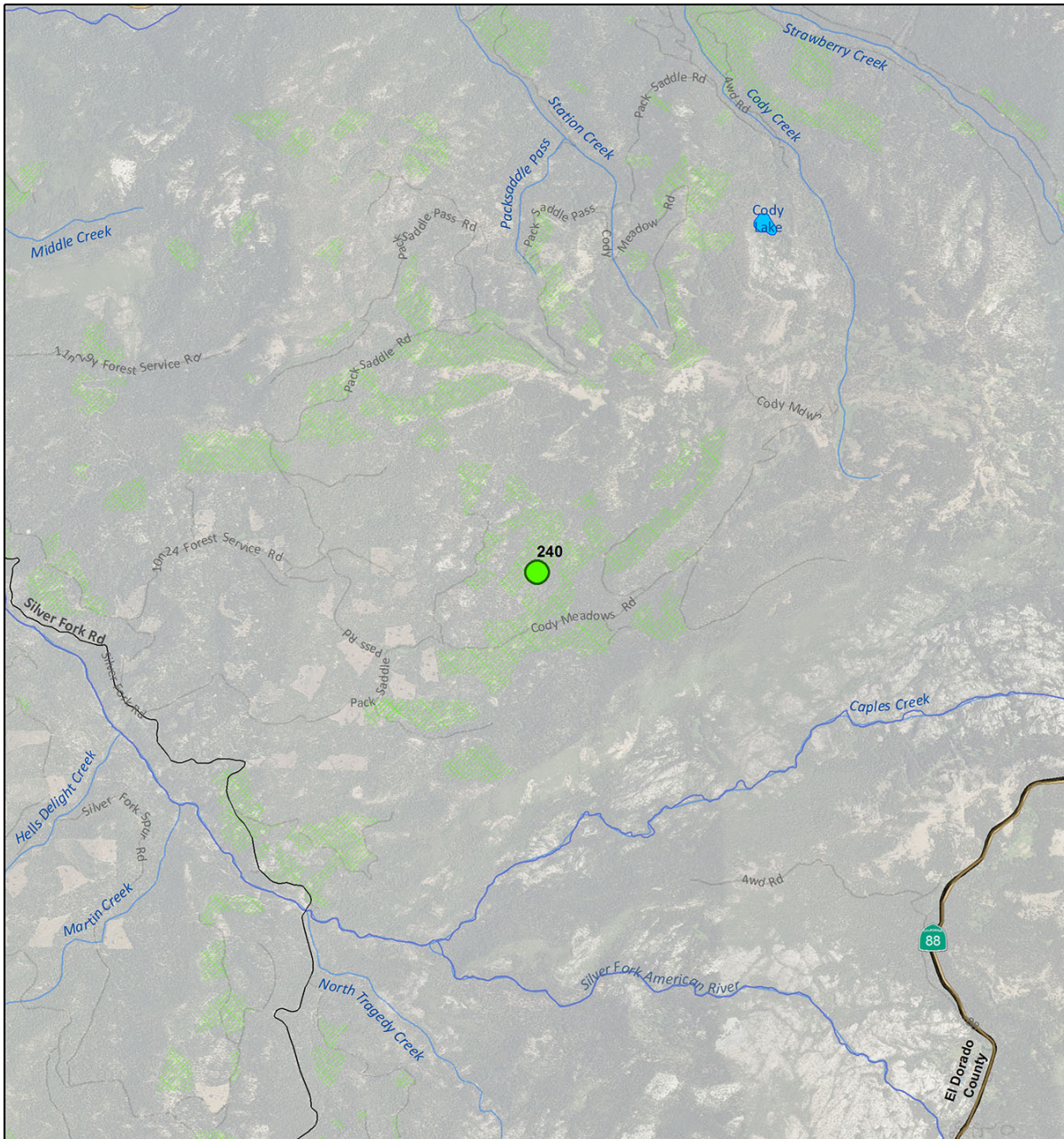
Appendix B Project Description Forms
 March 2018

B.3.35 240 Middle Creek Integrated Resource Timber Contract-Timber Sale & Fuels Reduction Project

Project/Program Name	<i>Middle Creek Integrated Resource Timber Contract-Timber Sale & Fuels Reduction Project</i>		
Responsible Agency	U.S. Forest Service		
Partner Agency (ies)	South Fork American River Cohesive Strategy		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$930,852.00		
Unit Cost	\$1,377/Acre		
Site Coordinates	Latitude: 38.726808°	Longitude: -120.171679°	
Description			
<p>This is a commercial timber sale project, non-commercial timber sale project, and fuels reduction project that is set to occur South of Highway 50 and east of Silver Fork road. Conducting this project will enhance local wildlife conditions such that wildlife that enjoy open sun filled spaces will be provided with more open sun filled spaces after trees have been cleared out. Additionally, timber projects like these will help maintain a healthy forest such that it will help remove trees that may have become affected by disease or pests. In other cases, removing trees can help prevent the spread of disease or simply provide better conditions for healthy trees to grow as they will receive access to more sunlight and space. This project will cover approximately 676 acres.</p>			
Component			
Watershed Management			
Potential Challenges			
Competing Resources Bark Beetle infestation due to prolonged drought Increased fire risk due to drought			
Conceptual GIS Map of Site			

WEST SLOPE STORMWATER RESOURCE PLAN

Appendix B Project Description Forms
March 2018



ID 240 - Middle Creek Integrated Resource Timber Contract

Project Type

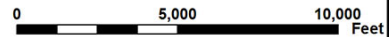
● Watershed Management

Linear Project Limits

Project Limits

USFS Timber License Area

Project Component:
Watershed Management
Latitude: 38.726808
Longitude: -120.171679



Projection: CA SP II NAD83
Background: NAIP (2016)
Prepared: December, 2017

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WEST SLOPE STORMWATER RESOURCE PLAN

Appendix B Project Description Forms
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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		U.S. Forest Service, South Fork American River Cohesive Strategy
Stage of Development		
<input type="checkbox"/> Conceptual <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Pre-Design <input type="checkbox"/> Design <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Other		
Expected Project Timeline	Begin: 2019, End: 2024	
Project Triggers	High fire risk Spread of Bark Beetle infestation	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program U.S. Department of the Interior (DOI) - Bureau of Reclamation - Cooperative Watershed Management Program		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas

WEST SLOPE STORMWATER RESOURCE PLAN

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Given the large area that this project will cover this project will be able to enhance and protect the local environment. Consequently, this project will be able to create employment opportunities that are both short –term and long-term. This project will engage the community and enhance local recreational and public use areas.	
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project not added to IRWM currently</u>
Project Benefits a DAC/EDA: ¹	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No _____
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>CEQA has not been completed</u> _____
Contact Person(s):	
Kendal Young, Ph.D. , South Fork American River Cohesive Strategy Forest Service, kendalyoung@fs.fed.us , (530)-621-5259	
Key References:	
NA	
Supplemental Information (e.g., Project Webpage or equivalent):	
NA	

¹DAC = Disadvantaged Communities
 EDA = Economically Distressed Area

WEST SLOPE STORMWATER RESOURCE PLAN

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 March 2018

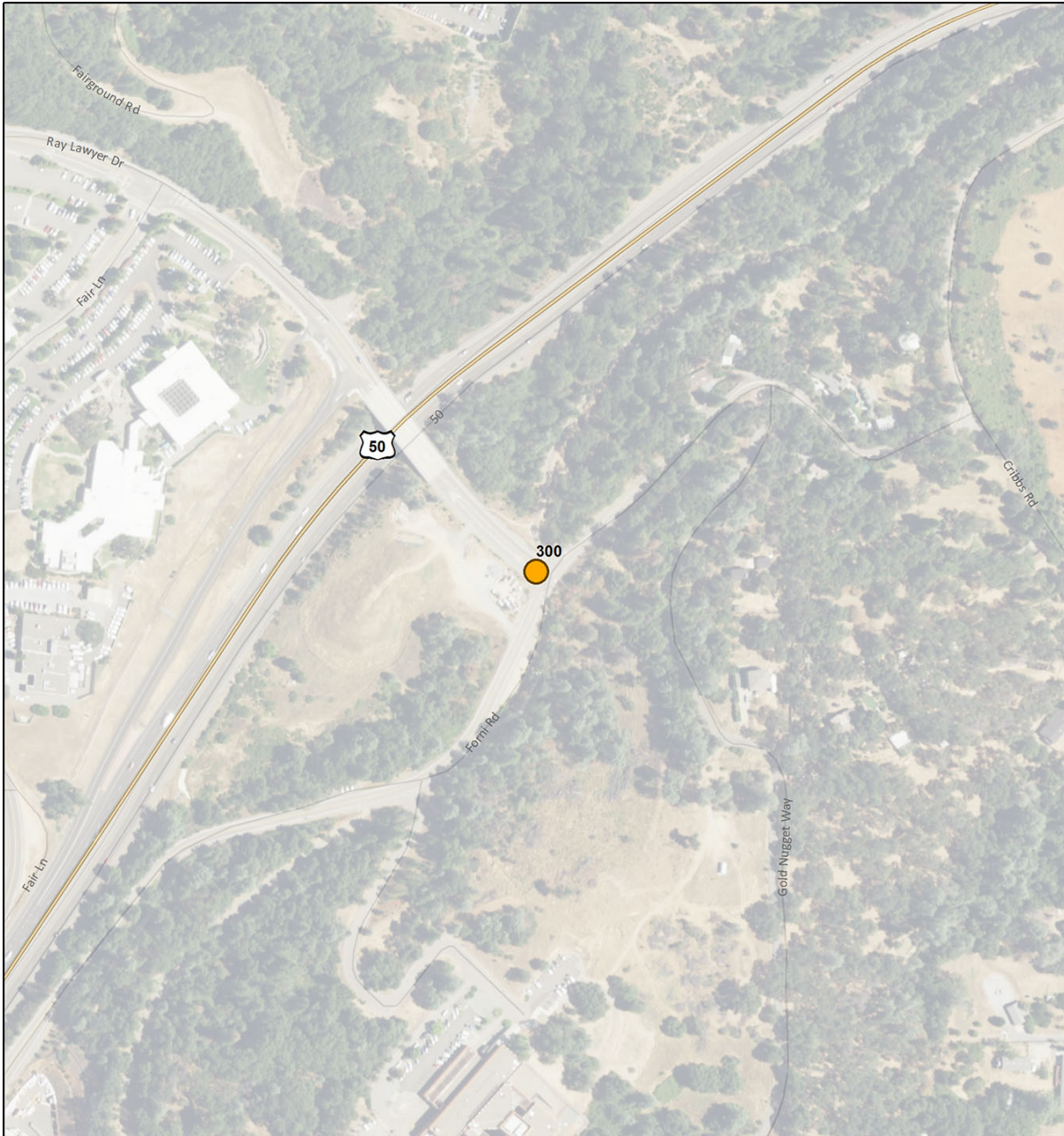
B.4 STORMWATER MANAGEMENT

B.4.1 300 Urban Roadway Improvement Project – Western Placerville Interchange

Project/Program Name	<i>Urban Roadway Improvement Project - Western Placerville Interchange</i>		
Responsible Agency	City of Placerville		
Partner Agency (ies)	Caltrans		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$11,600,000		
Unit Cost	NA		
Site Coordinates	Latitude: 38.727047°	Longitude: -120.823319°	
Description			
<p>This project entails the construction of a new eastbound Highway 50 off-ramp at Ray Lawyer Drive, a new park and ride facility, new Class I and Class II pedestrian/bike facilities, realignment of Forni Road and relocation of EID waterline. This project is partially funded through California Department of Transportation’s State Transportation Improvement Program (STEP), El Dorado County Transit Authority funds, El Dorado Irrigation District funds, California Department of Transportation State Highway Operation and Protection Program funds, U.S. Department of Transportation’s Surface Transportation Block Grant Program (STBG) and the U.S. Department of Transportation’s Congestion Mitigation and Air Quality Improvement Program project-specific funds.</p>			
Component			
Stormwater Management			
Potential Challenges			
Drivers may be unhappy if there are traffic delays during the construction period of this project.			
Conceptual GIS Map of Site			

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ID 300 - Urban Roadway Improvement Project - Western Placerville Interchange

Project Type

- Stormwater Management
- Linear Project Limits
- Project Limits

Project Component:
Stormwater Management

Latitude: 38.727047
Longitude: -120.823319

0 300 600 Feet

Projection: CA SP II NAD83
Background: NAIP (2016)
Prepared: December, 2017

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WEST SLOPE STORMWATER RESOURCE PLAN

Appendix B Project Description Forms
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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		City of Placerville, California Department of Transportation, El Dorado Irrigation District, U.S. Department of Transportation
Stage of Development		
<input type="checkbox"/> Conceptual <input type="checkbox"/> Planning <input type="checkbox"/> Pre-Design <input checked="" type="checkbox"/> Design <input type="checkbox"/> Construction <input type="checkbox"/> Other		
Expected Project Timeline	Begin: 2017, End: 2018	
Project Triggers	Severe road failures.	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program U.S. Department of Transportation (DOT) - Transportation Investment Generating Economic Recovery (TIGER) Discretionary Grant Program		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
<input checked="" type="checkbox"/> Primary <input type="checkbox"/> Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas

WEST SLOPE STORMWATER RESOURCE PLAN

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<p>This project would will have road improvements that will prevent erosion, in addition to including delineated wetlands and full-capture trash devices that will ultimately improve the water quality of the region and help reduce nonpoint source pollution. This project will create job opportunities. This project will enhance public use areas as bike facilities will be constructed. This project will engage the community and have a public education component.</p>	
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain _____
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one <u>Project falls within the 2010-2014 DAC Places as identified by CA Department of Water Resources</u> <input type="checkbox"/> No _____
CEQA Compliance:	<input checked="" type="checkbox"/> Yes, explain <u>CEQA has been completed</u> <input type="checkbox"/> No, explain _____
Contact Person(s):	
Rebecca Neves, City Engineer/PE/QSD/P, rneves@cityofplacerville.org , 530-642-5250	
Key References:	
NA	
Supplemental Information (e.g., Project Webpage or equivalent):	
edctc.org	

¹DAC = Disadvantaged Communities
EDA = Economically Distressed Area

WEST SLOPE STORMWATER RESOURCE PLAN

Appendix B Project Description Forms
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B.4.2 301 Placerville Station II-Park and Ride Facility Improvements

Project/Program Name	<i>Placerville Station II-Park and Ride Facility Improvements</i>		
Responsible Agency	City of Placerville		
Partner Agency (ies)	Caltrans		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$1,190,000		
Unit Cost	NA		
Site Coordinates	Latitude: 38.732286°	Longitude: -120.789439°	
Description			
This project includes park and ride site improvements, and Mosquito Road improvements (Broadway/Main to Clay Street). This project is partially funded by Federal Transit Administration Grant and U.S. Department of Transportation's Surface Transportation Block Grant Program (STBG) funds.			
Component			
Stormwater Management			
Potential Challenges			
Drivers may be unhappy if there are traffic delays during the construction period of this project.			
Conceptual GIS Map of Site			

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Appendix B Project Description Forms
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ID 301 - Placerville Station II-Park and Ride Facility

Project Type

- Stormwater Management
- Linear Project Limits
- Project Limits

Project Component:
Stormwater Management

Latitude: 38.732286
Longitude: -120.789439

0 200 400 Feet

Projection: CA SP II NAD83
Background: NAIP (2016)
Prepared: December, 2017

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Purpose(s)		Key Stakeholders																												
<input checked="" type="checkbox"/> Improve in-stream water quality <input type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		City of Placerville, U.S. Department of Transportation, Caltrans																												
Stage of Development																														
<input type="checkbox"/> Conceptual <input type="checkbox"/> Planning <input type="checkbox"/> Pre-Design <input checked="" type="checkbox"/> Design <input type="checkbox"/> Construction <input type="checkbox"/> Other																														
Expected Project Timeline	Begin: 2017, End: 2018																													
Project Triggers	Road failures																													
Potentially Applicable Federal and State Programs for Technical and Financial Assistance																														
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program U.S. Department of Transportation (DOT) - Transportation Investment Generating Economic Recovery (TIGER) Discretionary Grant Program																														
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):																														
■ Primary ■ Opportunity (highlight applicable cells and provide justification below table)																														
<table border="1"> <thead> <tr> <th colspan="3">Benefit Categories Identified in SWRP Guidelines</th> </tr> <tr> <th>Benefit Category</th> <th>Main Benefit</th> <th>Additional Benefit</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i></td> <td rowspan="2">Increased filtration and/or treatment of runoff</td> <td>Nonpoint source pollution control</td> </tr> <tr> <td>Reestablished natural water drainage and treatment</td> </tr> <tr> <td rowspan="2">Water Supply <i>through groundwater management and/or runoff capture and use</i></td> <td>Water supply reliability</td> <td rowspan="2">Water conservation</td> </tr> <tr> <td>Conjunctive use</td> </tr> <tr> <td>Flood Management</td> <td>Decrease flood risk by reducing runoff rate and/or volume</td> <td>Reduced sanitary sewer overflows</td> </tr> <tr> <td rowspan="3">Environmental</td> <td rowspan="2">Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement</td> <td>Reduced energy use, GHG emission, or provides a carbon sink</td> </tr> <tr> <td>Reestablishment of the natural hydrograph</td> </tr> <tr> <td>Increased urban green space</td> <td>Water temperature improvements</td> </tr> <tr> <td rowspan="2">Community</td> <td>Employment opportunities provided</td> <td>Community involvement</td> </tr> <tr> <td>Public education</td> <td>Enhance and/or create recreational and public use areas</td> </tr> </tbody> </table>			Benefit Categories Identified in SWRP Guidelines			Benefit Category	Main Benefit	Additional Benefit	Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control	Reestablished natural water drainage and treatment	Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation	Conjunctive use	Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows	Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink	Reestablishment of the natural hydrograph	Increased urban green space	Water temperature improvements	Community	Employment opportunities provided	Community involvement	Public education	Enhance and/or create recreational and public use areas
Benefit Categories Identified in SWRP Guidelines																														
Benefit Category	Main Benefit	Additional Benefit																												
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control																												
		Reestablished natural water drainage and treatment																												
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation																												
	Conjunctive use																													
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows																												
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink																												
		Reestablishment of the natural hydrograph																												
	Increased urban green space	Water temperature improvements																												
Community	Employment opportunities provided	Community involvement																												
	Public education	Enhance and/or create recreational and public use areas																												

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This project will provide short term employment opportunities, engage the community, and provide a public education component.	
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain _____
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one <u>Project falls within the 2010-2014 DAC Places as identified by CA Department of Water Resources</u> <input type="checkbox"/> No _____
CEQA Compliance:	<input checked="" type="checkbox"/> Yes, explain <u>CEQA has been completed</u> <input type="checkbox"/> No, explain _____
Contact Person(s):	
Rebecca Neves, City Engineer/PE/QSD/P, rneves@cityofplacerville.org , 530-642-5250	
Key References:	
NA	
Supplemental Information (e.g., Project Webpage or equivalent):	
edctc.org	

¹DAC = Disadvantaged Communities
 EDA = Economically Distressed Area

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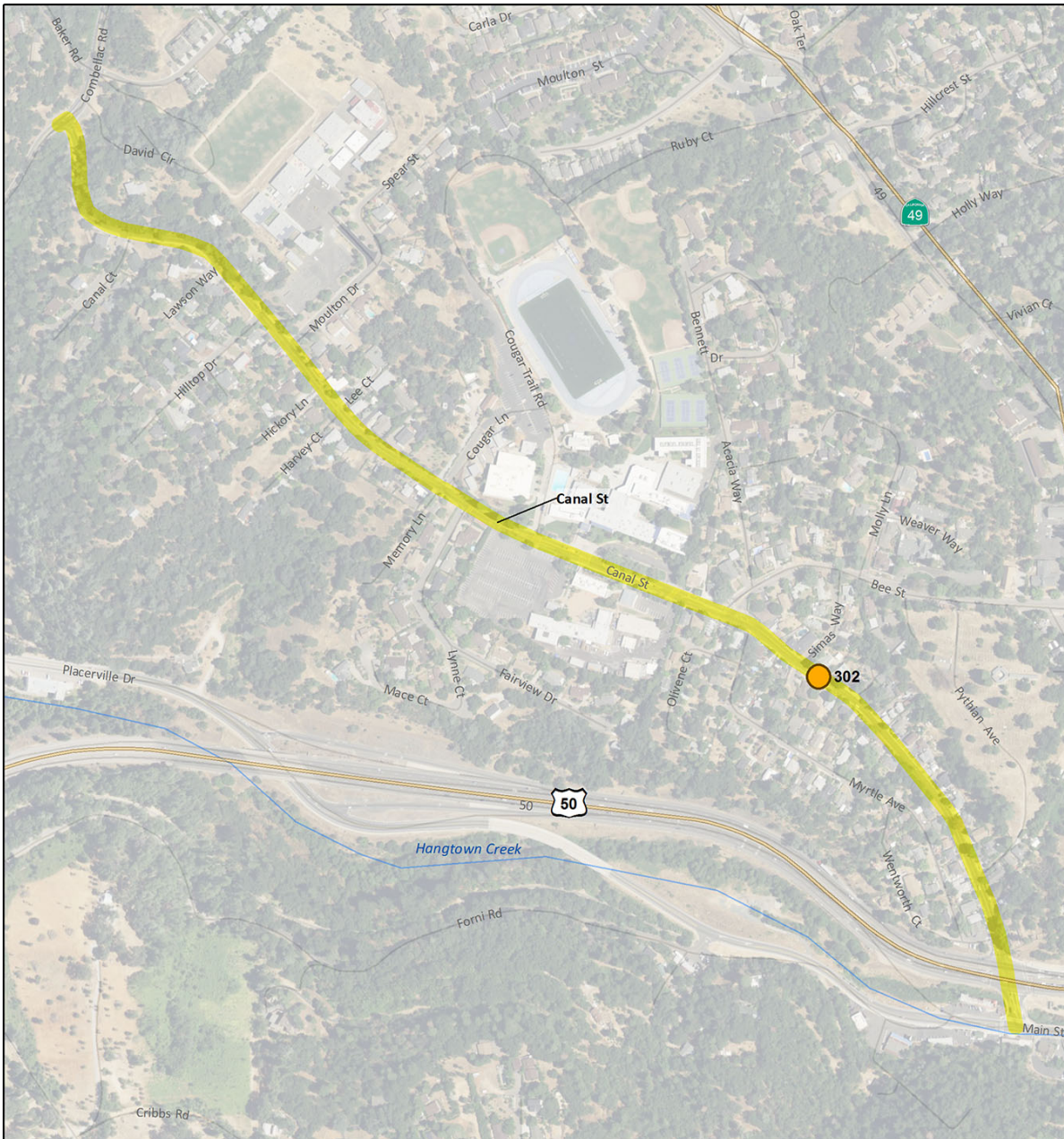
Appendix B Project Description Forms
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B.4.3 302 Canal Street LID Projects

Project/Program Name	<i>Canal Street LID Projects</i>		
Responsible Agency	City of Placerville		
Partner Agency (ies)	NA		
Net Yield	Normal Year: 150 AF/y	Wet Year: 206 AF/y	Dry Year: 105 AF/y
Estimated Cost	Capital: \$5,454,000		
Unit Cost	NA		
Site Coordinates	Latitude: 38.731086°	Longitude: -120.809825°	
Description			
Project includes road, sewer and water improvements which will include LID designs, if possible (i.e. bioretention, impervious area removal, land compatible design, infrastructure upgrades to repair deteriorating pipes contributing to water quality impairments).			
Component			
Stormwater Management			
Potential Challenges			
Residents near project site may not like the noise related to the construction that will result from the project.			
Conceptual GIS Map of Site			

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ID 302 - Canal Street LID Projects

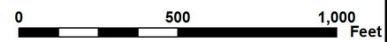
Project Type

● Stormwater Management

Linear Project Limits

Project Limits

Project Component:
Stormwater Management
Latitude: 38.731086
Longitude: -120.809825



Projection: CA SP II NAD83
 Background: NAIP (2016)
 Prepared: December, 2017

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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		City of Placerville
Stage of Development		
<input checked="" type="checkbox"/> Conceptual <input type="checkbox"/> Planning <input type="checkbox"/> Pre-Design <input type="checkbox"/> Design <input type="checkbox"/> Construction <input type="checkbox"/> Other		
Expected Project Timeline	<i>Begin: 2018, End: 2019</i>	
Project Triggers	<i>Funding Sewer or road failures</i>	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program U.S. Department of Transportation (DOT) - Transportation Investment Generating Economic Recovery (TIGER) Discretionary Grant Program		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
<input checked="" type="checkbox"/> Primary <input type="checkbox"/> Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas

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<p>This project will provide road and sanitary sewer improvements that will prevent erosion and prevent sewer overflows. Project will include short term employment opportunities. Overall, this project has the potential to treat and infiltrate runoff, reduce nonpoint source pollution, reestablish the natural water drainage and treatment, decrease flood risk, reestablish the natural hydrograph, increase urban green space, engage the community and provide a public education component.</p>	
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain _____
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one <u>Project falls within the 2010-2014 DAC Places as identified by CA Department of Water Resources</u> <input type="checkbox"/> No _____
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>CEQA not completed</u> _____
Contact Person(s):	
Rebecca Neves, City Engineer/PE/QSD/P, rneves@cityofplacerville.org , 530-642-5250	
Key References:	
NA	
Supplemental Information (e.g., Project Webpage or equivalent):	
NA	

¹DAC = Disadvantaged Communities
 EDA = Economically Distressed Area

WEST SLOPE STORMWATER RESOURCE PLAN

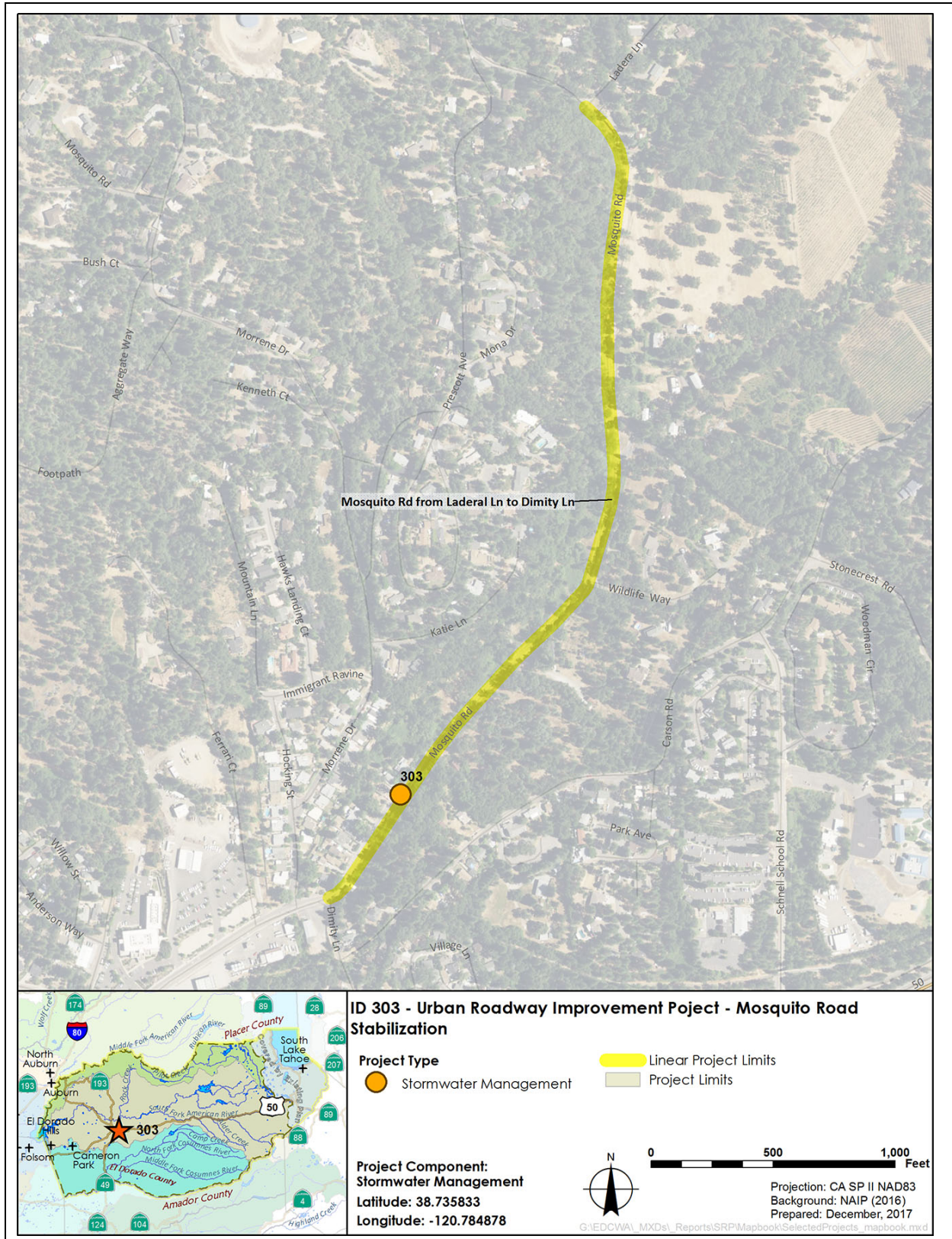
Appendix B Project Description Forms
 March 2018

B.4.4 303 Urban Roadway Improvement Project - Mosquito Road Stabilization, Grind & Overlay Project

Project/Program Name	<i>Urban Roadway Improvement Project - Mosquito Road Stabilization, Grind & Overlay Project</i>		
Responsible Agency	City of Placerville		
Partner Agency (ies)	NA		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$240,000		
Unit Cost	NA		
Site Coordinates	Latitude: 38.735833°	Longitude: -120.784878°	
Description			
<p>Roadway improvements include grind, partial reconstruction, and overlay. Project will occur from Dimity Lane to the City Limits. LID designs will be included if possible (i.e. porous pavement and filter strips).</p> <p>Filter strips: slow runoff velocities and filter out sediment and other pollutants and provide some infiltration into underlying soils.</p> <p>Porous pavement: permeable pavement surface built with underlying stone reservoir that temporarily stores surface runoff before it infiltrates into the subsoil. Porous pavements allow stormwater to infiltrate directly and receive water quality treatment. Various types of porous surfaces exist: asphalt, concrete, and grass. Porous pavement would be suited for utility and access roads. Porous pavement can be maintained with vacuum street sweepers and inspection for signs of deterioration.</p>			
Component			
Stormwater Management			
Potential Challenges			
Residents near project site may not like the noise related to the construction that will result from the project.			
Conceptual GIS Map of Site			

WEST SLOPE STORMWATER RESOURCE PLAN

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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		City of Placerville
Stage of Development		
<input type="checkbox"/> Conceptual <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Pre-Design <input type="checkbox"/> Design <input type="checkbox"/> Construction <input type="checkbox"/> Other		
Expected Project Timeline	Begin: 2017, End: 2018	
Project Triggers	<i>Funding</i> <i>Road failures</i>	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program U.S. Department of Transportation (DOT) - Transportation Investment Generating Economic Recovery (TIGER) Discretionary Grant Program		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas

WEST SLOPE STORMWATER RESOURCE PLAN

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Project will provide road improvements, prevent erosion, and improve storm water runoff quality. Ultimately, the project will help reduce nonpoint source pollution, generate short employment opportunities, engage the community, and provide a public education component.	
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain _____
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one <u>Project falls within the 2010-2014 DAC Places as identified by CA Department of Water Resources</u> _____ <input type="checkbox"/> No _____
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>CEQA not completed</u> _____
Contact Person(s):	
Steve Herrera, PE, steve@herreraengineering.net , 530-677-1854 Rebecca Neves, City Engineer/PE/QSD/P, rneves@cityofplacerville.org , 530-642-5250	
Key References:	
NA	
Supplemental Information (e.g., Project Webpage or equivalent):	
NA	

¹DAC = Disadvantaged Communities
EDA = Economically Distressed Area

WEST SLOPE STORMWATER RESOURCE PLAN

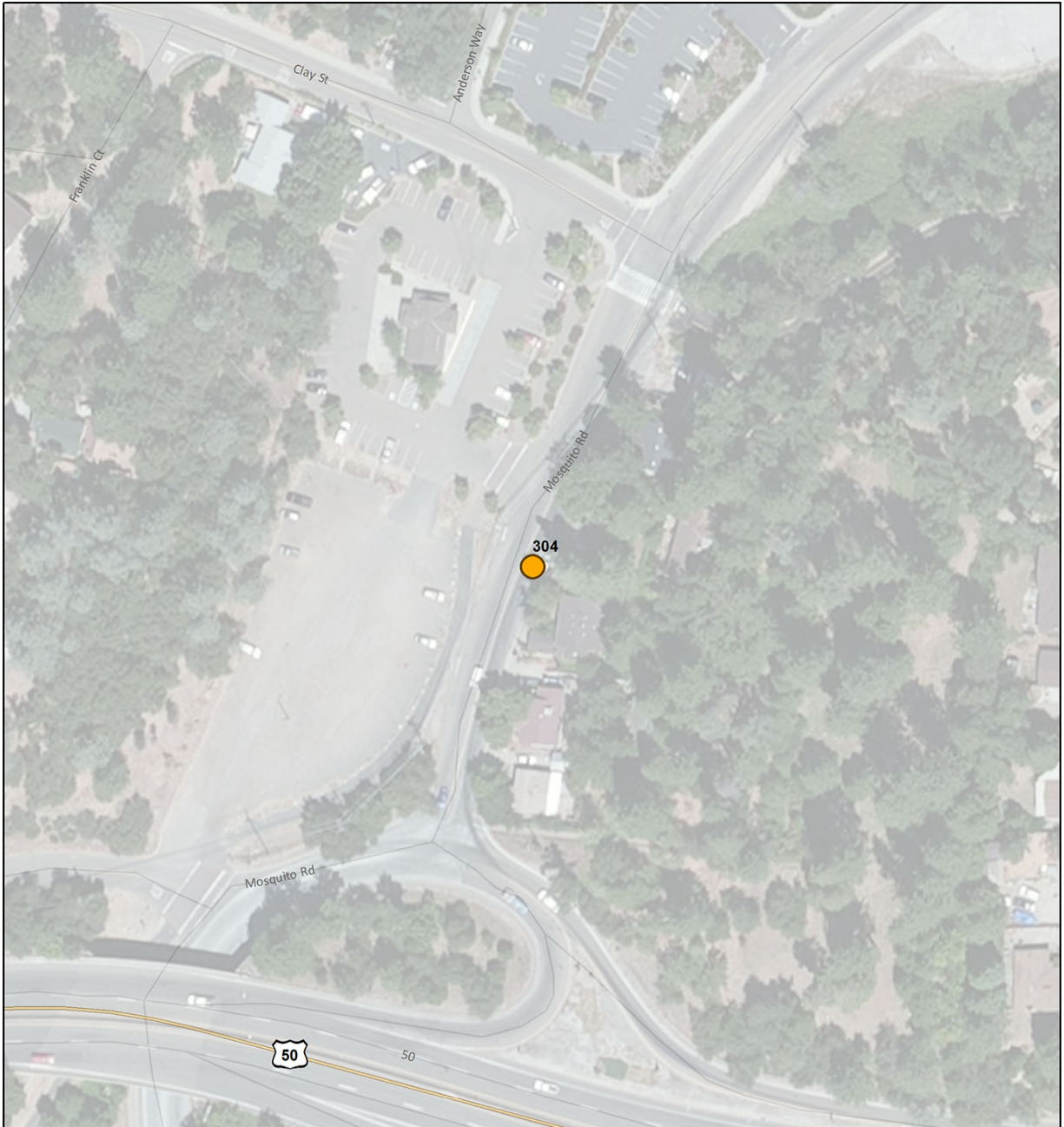
Appendix B Project Description Forms
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B.4.5 304 Mosquito Road Sewer Main Replacement

Project/Program Name	<i>Mosquito Road Sewer Main Replacement</i>		
Responsible Agency	City of Placerville		
Partner Agency (ies)	NA		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$184,500		
Unit Cost	NA		
Site Coordinates	Latitude: 38.732614°	Longitude: -120.789278	
Description			
<p>Project includes road, sewer and water improvements. Project will replace approximately 1,000 linear feet of existing cast iron sewer pipe from Broadway Court/Randolph Creek to Mosquito Road. Project will include LID designs if possible (i.e., Swales and filter strips).</p> <p>Filter strips: can be incorporated to treat runoff from roads and pervious surfaces. Filter strips slow runoff and filter out sediment and other pollutants, and provide some infiltration into underlying soils.</p> <p>Swales (grassed channels, dry swale, wet swale, biofilter or bioswale): are vegetated, open-channel management practices designed to treat and attenuate stormwater runoff for a specified water quality volume. Vegetation slows the water to allow sedimentation, filtering through a subsoil matrix and/or infiltration into the underlying soils.</p>			
Component			
Stormwater Management			
Potential Challenges			
Residents near project site may not like the noise related to the construction that will result from the project.			
Conceptual GIS Map of Site			

WEST SLOPE STORMWATER RESOURCE PLAN

Appendix B Project Description Forms
March 2018



ID 304 - Mosquito Road Sewer Main Replacement

Project Type	Linear Project Limits
Stormwater Management	Project Limits

Project Component:
Stormwater Management

Latitude: 38.732614
Longitude: -120.789278

Projection: CA SP II NAD83
Background: NAIP (2016)
Prepared: December, 2017

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WEST SLOPE STORMWATER RESOURCE PLAN

Appendix B Project Description Forms
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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		City of Placerville
Stage of Development		
<input type="checkbox"/> Conceptual <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Pre-Design <input type="checkbox"/> Design <input type="checkbox"/> Construction <input type="checkbox"/> Other		
Expected Project Timeline	Begin: 2017, End: 2018	
Project Triggers	Funding Sewer or road failures	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program U.S. Department of Transportation (DOT) - Transportation Investment Generating Economic Recovery (TIGER) Discretionary Grant Program		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
<input checked="" type="checkbox"/> Primary <input type="checkbox"/> Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas

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Project will provide road and sanitary sewer improvements that will prevent sewer overflows which will help reduce the occurrence of non-point source pollution. This project will ultimately provide short term employment opportunities, engage the community and provide a public education component.	
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain _____
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one <u>Project falls within the 2010-2014 DAC Places as identified by CA Department of Water Resources</u> _____ <input type="checkbox"/> No _____
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>CEQA not completed</u> _____
Contact Person(s):	
Steve Herrera, PE, steve@herreraengineering.net , 530-677-1854 Rebecca Neves, City Engineer/PE/QSD/P, rneves@cityofplacerville.org , 530-642-5250	
Key References:	
NA	
Supplemental Information (e.g., Project Webpage or equivalent):	
NA	

¹DAC = Disadvantaged Communities
 EDA = Economically Distressed Area

WEST SLOPE STORMWATER RESOURCE PLAN

Appendix B Project Description Forms
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B.4.6 305 Urban Roadway Improvement Project - Woodridge Court, Grind & Overlay Project

Project/Program Name	<i>Urban Roadway Improvement Project - Woodridge Court, Grind & Overlay Project</i>		
Responsible Agency	City of Placerville		
Partner Agency (ies)	NA		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$150,000		
Unit Cost	NA		
Site Coordinates	Latitude: 38.738531°	Longitude: -120.828681°	
Description			
<p>Project includes road improvements: address pavement failure at various locations, grind and overlay, and partial reconstruction as needed. Project will include LID designs if possible (ei. Filter strips and porous media).</p> <p>Filter strips: can slow runoff velocities and filter out sediment and other pollutants and provide some infiltration into underlying soils.</p> <p>Porous pavement: permeable pavement surface built with underlying stone reservoir that temporarily stores surface runoff before it infiltrates into the subsoil. Porous pavements allow stormwater to infiltrate directly and receive water quality treatment. Various types of porous surfaces exist: asphalt, concrete, and grass. Porous pavement would be suited for utility and access roads. Porous pavement can be maintained with vacuum street sweepers and inspection for signs of deterioration.</p> <p>Coordinating with Veerkamp for quote following site review. PW verified segment of sewer pipe will need to be replaced as part of the project. Coordinating with EID on any potential water main improvements needed as well. Original estimate does not include utility improvements, additional funds likely needed. May design in house to put out for public bidding.</p>			
Component			
Stormwater Management			
Potential Challenges			
Residents near project site may not like the noise related to the construction that will result from the project.			
Conceptual GIS Map of Site			




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ID 305 - Urban Roadway Improvement Project - Woodridge Court

Project Type

-  Stormwater Management
-  Linear Project Limits
-  Project Limits

Project Component:
Stormwater Management

Latitude: 38.738531
Longitude: -120.828681

Scale: 0 100 200 Feet

Projection: CA SP II NAD83
Background: NAIP (2016)
Prepared: December, 2017

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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		City of Placerville
Stage of Development		
<input type="checkbox"/> Conceptual <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Pre-Design <input type="checkbox"/> Design <input type="checkbox"/> Construction <input type="checkbox"/> Other		
Expected Project Timeline	Begin: 2017, End: 2018	
Project Triggers	Funding Sewer or road failures	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program U.S. Department of Transportation (DOT) - Transportation Investment Generating Economic Recovery (TIGER) Discretionary Grant Program		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity (highlight applicable cells and provide justification below table)		
Main Benefit	Additional Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas

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This project will improve road conditions which will improve stormwater runoff quality. Non-point source pollution will be reduced, short term employment opportunities will be generated, sewer overflows will be prevented, the community will be engaged and a public education component will exist.	
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain _____
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one <u>Project falls within the 2010-2014 DAC Places as identified by CA Department of Water Resources</u> <input type="checkbox"/> No _____
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>CEQA not completed</u> _____
Contact Person(s):	
Steve Herrera, PE, steve@herreraengineering.net , 530-677-1854 Rebecca Neves, City Engineer/PE/QSD/P, rneves@cityofplacerville.org , 530-642-5250	
Key References:	
NA	
Supplemental Information (e.g., Project Webpage or equivalent):	
NA	

¹DAC = Disadvantaged Communities
 EDA = Economically Distressed Area

WEST SLOPE STORMWATER RESOURCE PLAN

Appendix B Project Description Forms
 March 2018

B.4.7 306 Urban Roadway Improvement Project - Martin Lane, Grind & Overlay Project

Project/Program Name	<i>Urban Roadway Improvement Project - Martin Lane, Grind & Overlay Project</i>		
Responsible Agency	City of Placerville		
Partner Agency (ies)	NA		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$43,000		
Unit Cost	NA		
Site Coordinates	Latitude: 38.730969°	Longitude: -120.780511°	
Description			
<p>Project includes road improvements. Project will address pavement damage at the California Department of Transportation yard access gate with 5" grind, recompact base, and overlay, est. \$5/SF. Project will include LID designs if possible (ei. Filter strips and porous media).</p> <p>Filter strips: can slow runoff velocities and filter out sediment and other pollutants and provide some infiltration into underlying soils.</p> <p>Porous pavement: permeable pavement surface built with underlying stone reservoir that temporarily stores surface runoff before it infiltrates into the subsoil. Porous pavements allow stormwater to infiltrate directly and receive water quality treatment. Various types of porous surfaces exist: asphalt, concrete, and grass. Porous pavement would be suited for utility and access roads. Porous pavement can be maintained with vacuum street sweepers and inspection for signs of deterioration.</p>			
Component			
Stormwater Management			
Potential Challenges			
<i>Residents near project site may not like the noise related to the construction that will result from the project.</i>			
Conceptual GIS Map of Site			

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Appendix B Project Description Forms
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ID 306 - Urban Roadway Improvement Project - Martin Lane

Project Type

- Orange Circle: Stormwater Management
- Yellow Line: Linear Project Limits
- Light Green Area: Project Limits

Project Component:
 Stormwater Management

Latitude: 38.730969
Longitude: -120.780511

0 100 200 Feet

Projection: CA SP II NAD83
 Background: NAIP (2016)
 Prepared: December, 2017

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Purpose(s)		Key Stakeholders																												
<input checked="" type="checkbox"/> Improve in-stream water quality <input type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		City of Placerville																												
Stage of Development																														
<input type="checkbox"/> Conceptual <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Pre-Design <input type="checkbox"/> Design <input type="checkbox"/> Construction <input type="checkbox"/> Other																														
Expected Project Timeline	Begin: 2017, End: 2018																													
Project Triggers	Funding Road failures																													
Potentially Applicable Federal and State Programs for Technical and Financial Assistance																														
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program U.S. Department of Transportation (DOT) - Transportation Investment Generating Economic Recovery (TIGER) Discretionary Grant Program																														
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):																														
■ Primary ■ Opportunity (highlight applicable cells and provide justification below table)																														
<table border="1"> <thead> <tr> <th colspan="3">Benefit Categories Identified in SWRP Guidelines</th> </tr> <tr> <th>Benefit Category</th> <th>Main Benefit</th> <th>Additional Benefit</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i></td> <td rowspan="2">Increased filtration and/or treatment of runoff</td> <td>Nonpoint source pollution control</td> </tr> <tr> <td>Reestablished natural water drainage and treatment</td> </tr> <tr> <td rowspan="2">Water Supply <i>through groundwater management and/or runoff capture and use</i></td> <td>Water supply reliability</td> <td rowspan="2">Water conservation</td> </tr> <tr> <td>Conjunctive use</td> </tr> <tr> <td>Flood Management</td> <td>Decrease flood risk by reducing runoff rate and/or volume</td> <td>Reduced sanitary sewer overflows</td> </tr> <tr> <td rowspan="3">Environmental</td> <td rowspan="2">Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement</td> <td>Reduced energy use, GHG emission, or provides a carbon sink</td> </tr> <tr> <td>Reestablishment of the natural hydrograph</td> </tr> <tr> <td>Increased urban green space</td> <td>Water temperature improvements</td> </tr> <tr> <td rowspan="2">Community</td> <td>Employment opportunities provided</td> <td>Community involvement</td> </tr> <tr> <td>Public education</td> <td>Enhance and/or create recreational and public use areas</td> </tr> </tbody> </table>			Benefit Categories Identified in SWRP Guidelines			Benefit Category	Main Benefit	Additional Benefit	Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control	Reestablished natural water drainage and treatment	Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation	Conjunctive use	Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows	Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink	Reestablishment of the natural hydrograph	Increased urban green space	Water temperature improvements	Community	Employment opportunities provided	Community involvement	Public education	Enhance and/or create recreational and public use areas
Benefit Categories Identified in SWRP Guidelines																														
Benefit Category	Main Benefit	Additional Benefit																												
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control																												
		Reestablished natural water drainage and treatment																												
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation																												
	Conjunctive use																													
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows																												
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink																												
		Reestablishment of the natural hydrograph																												
	Increased urban green space	Water temperature improvements																												
Community	Employment opportunities provided	Community involvement																												
	Public education	Enhance and/or create recreational and public use areas																												

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This project will improve road conditions which will improve stormwater runoff quality. Non-point source pollution will be reduced. In addition, this project will generate short term employment opportunities, engage the community and provide a public education component.	
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain _____
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one <u>Project falls within the 2010-2014 DAC Places as identified by CA Department of Water Resources</u> <input type="checkbox"/> No _____
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>CEQA not completed</u> _____
Contact Person(s):	
Steve Herrera, PE, steve@herreraengineering.net , 530-677-1854 Rebecca Neves, City Engineer/PE/QSD/P, rneves@cityofplacerville.org , 530-642-5250	
Key References:	
NA	
Supplemental Information (e.g., Project Webpage or equivalent):	
NA	

¹DAC = Disadvantaged Communities
EDA = Economically Distressed Area

WEST SLOPE STORMWATER RESOURCE PLAN

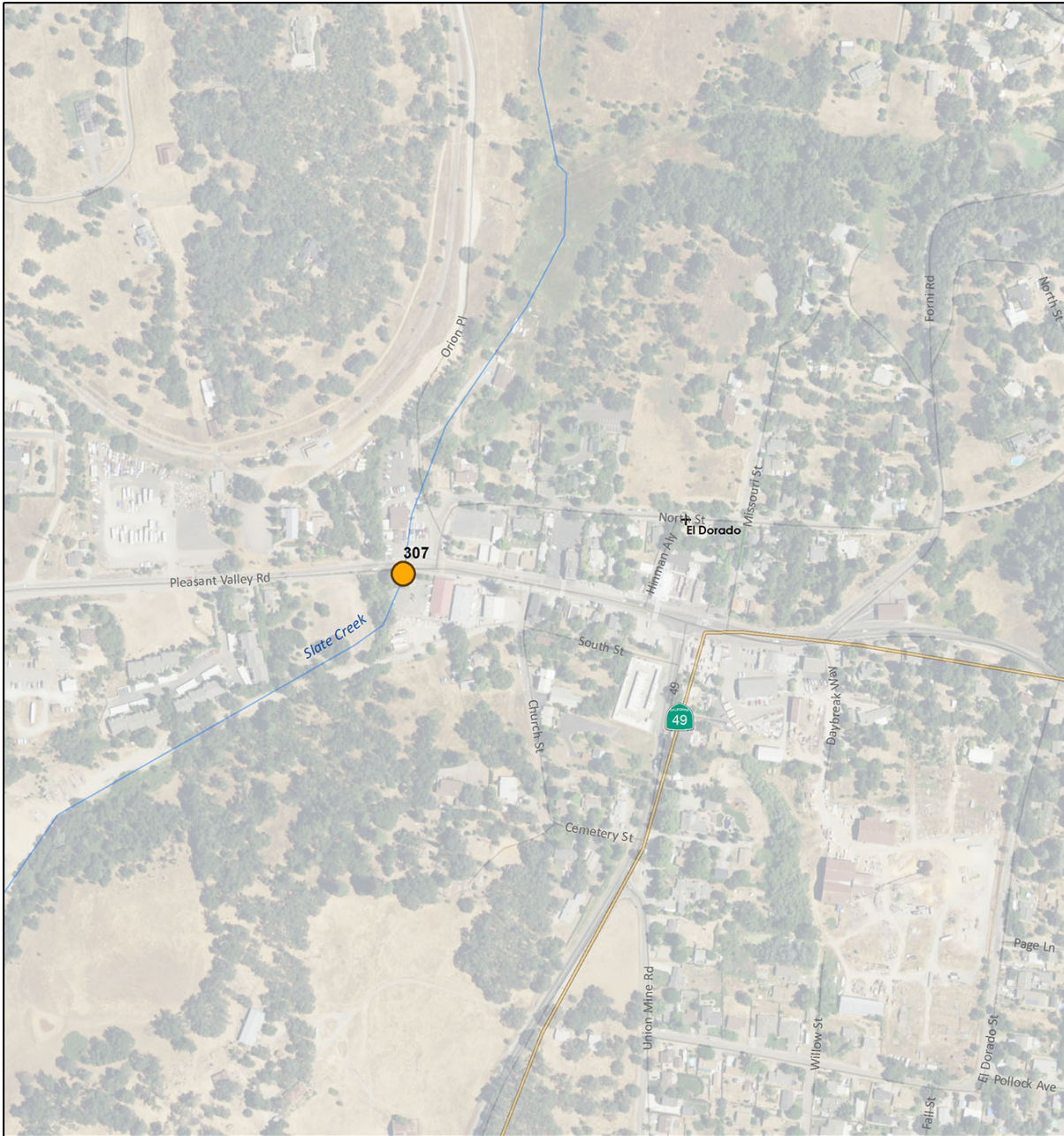
Appendix B Project Description Forms
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B.4.8 307 Town of El Dorado Drainage Improvements

Project/Program Name	<i>Town of El Dorado Drainage Improvements</i>		
Responsible Agency	El Dorado County Department of Transportation		
Partner Agency (ies)	El Dorado County		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: Cost not calculated due to conceptual nature of project.		
Unit Cost	NA		
Site Coordinates	Latitude: 38.682615°	Longitude: -120.849813°	
Description			
<p>The town of El Dorado is an unincorporated community in El Dorado County. On a segment of Pleasant Valley Rd, Slate Creek and its tributaries go under and along the road and occasionally floods; jeopardizing the surrounding areas. The surrounding area is mostly commercial and contains establishments such as auto repair shops that have the potential to be exposed to the occasional flooding events. The flooding also jeopardizes the integrity of the road and drainage infrastructure and poses a safety hazard for passing motorists. The flooding that occurs is of great concern and needs to be addressed. This project will focus on flood control and thus help reduce the risk of road and drainage infrastructure failure and creating situations in which the local water supplies could be deteriorated from the items that are found in the local establishments. The proposed project will mitigate flood risks by diverting stormwater runoff to wetlands found in close proximity. By using wetlands, stormwater runoff will be captured, treated and infiltrated into the ground. Additionally, grass swales will be placed along Pleasant Valley Rd for stormwater conveyance that will treat and filtrate runoff into the ground before it reaches the surrounding water bodies. Low impact development (LID) approaches will be applied for this project if possible.</p>			
Component			
Stormwater Management			
Potential Challenges			
Construction activities may disrupt residents.			
Conceptual GIS Map of Site			

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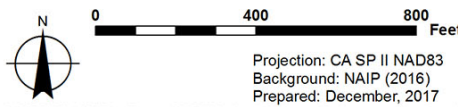
ID 307 - Town of El Dorado Drainage Improvements

Project Type

- Stormwater Management
- Linear Project Limits
- Project Limits

Project Component:
Stormwater Management

Latitude: 38.682615
Longitude: -120.849813


 Projection: CA SP II NAD83
 Background: NAIP (2016)
 Prepared: December, 2017
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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		El Dorado County Department of Transportation, Town of El Dorado, California Department of Transportation, El Dorado County
Stage of Development		
<input checked="" type="checkbox"/> Conceptual <input type="checkbox"/> Design		<input type="checkbox"/> Planning <input type="checkbox"/> Construction <input type="checkbox"/> Pre-Design <input type="checkbox"/> Other
Expected Project Timeline	Begin 2020; End 2022	
Project Triggers	High risk flood event.	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program U.S. Department of Transportation (DOT) - Transportation Investment Generating Economic Recovery (TIGER) Discretionary Grant Program		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
<input checked="" type="checkbox"/> Primary <input type="checkbox"/> Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas

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<p>The proposed project will ultimately help improve the water quality in the area, specifically in Slate Creek. By providing flood control measures, nonpoint source pollution that arises as a result of the flooding events will be mitigated. A flood control measure will be to divert the generated runoff and flood water from Slate Creek, into wetlands for the water to be treated and infiltrated. In diverting flood water from Slate Creek, the hydrograph will be improved. The proposed drainage improvements set to occur will reduce the flood risk while also protecting and enhancing the environment and local habitats. Since swales will be constructed, natural drainage systems will be introduced, and the filtration and treatment of stormwater runoff will result which will contribute towards reducing non-point source pollution. This project will also generate short term employment opportunities, engage the community and provide a public education component.</p>	
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, not added to IRWM currently</u>
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one <u>Project found under 2010-2014 DAC Block Groups as identified by the CA Department of Water Resources</u> <input type="checkbox"/> No _____
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, no environmental documentation is completed yet</u>
Contact Person(s):	
Brian Mullens, El Dorado County Department of Transportation Highway Superintendent, brian.mullens@edcgov.us , (530) 642-4924 Brendan Ferry, El Dorado County Principal Planner, brendan.ferry@edcgov.us , (530) 573-7905	
Key References:	
NA	
Supplemental Information (e.g., Project Webpage or equivalent):	
NA	

¹DAC = Disadvantaged Communities
EDA = Economically Distressed Area

WEST SLOPE STORMWATER RESOURCE PLAN

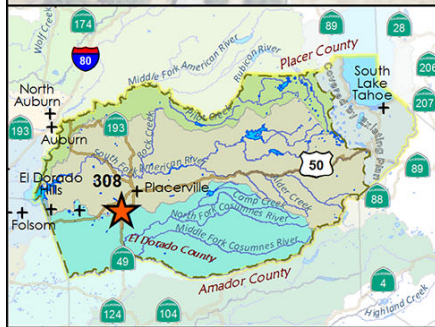
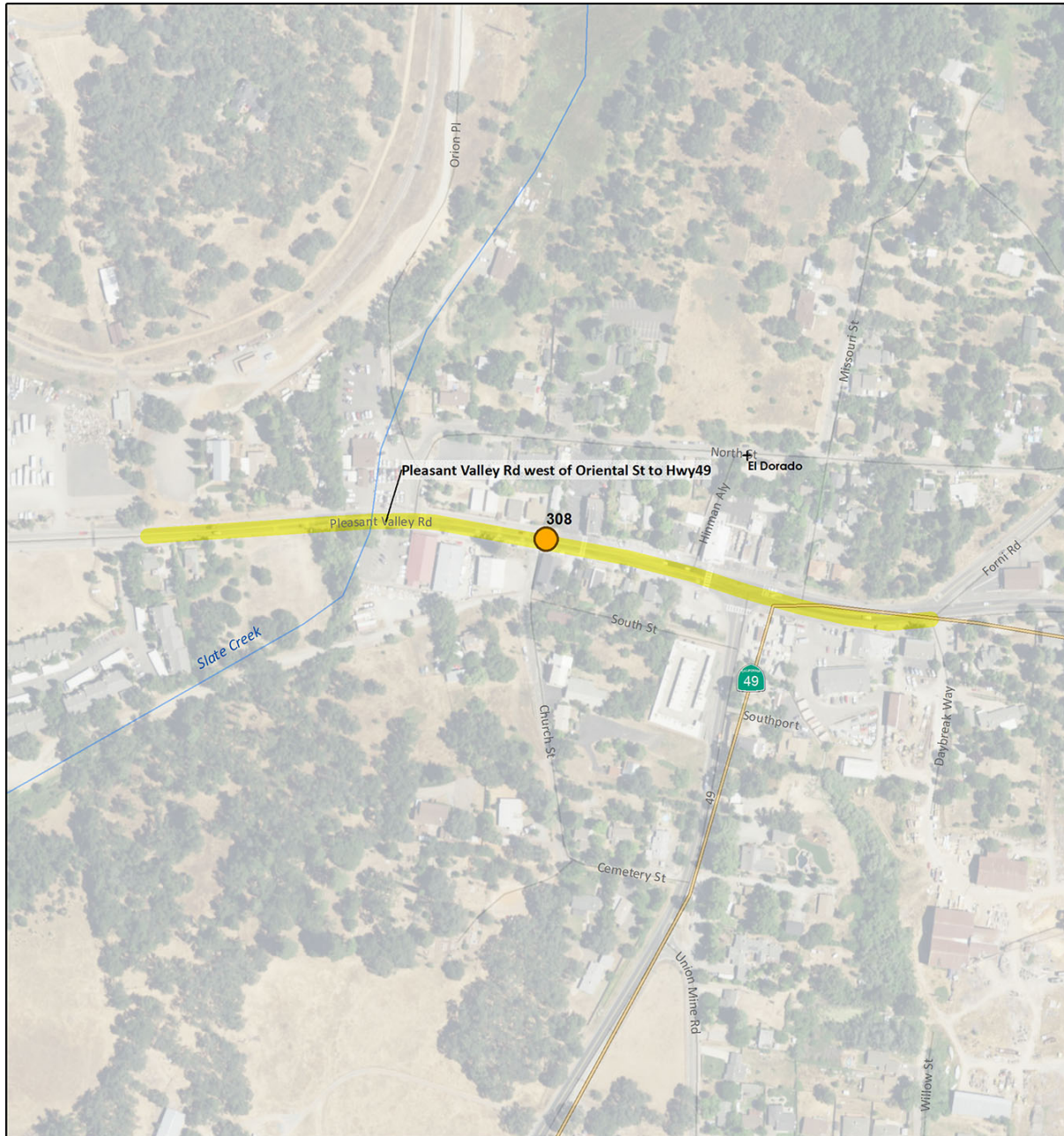
Appendix B Project Description Forms
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B.4.9 308 Town of El Dorado Green Street Project

Project/Program Name	<i>Town of El Dorado Green Street Project</i>		
Responsible Agency	El Dorado County Department of Transportation		
Partner Agency (ies)	El Dorado County- Community Development Services, California Department of Transportation		
Net Yield	Normal Year: 48 AF/y	Wet Year: 67 AF/y	Dry Year: 34 AF/y
Estimated Cost	Capital: Cost not calculated due to conceptual nature of project.		
Unit Cost	NA		
Site Coordinates	Latitude: 38.682531°	Longitude: -120.848509°	
Description			
<p>The proposed project in the Town of El Dorado will occur on Pleasant Valley Rd. Part of the project work would be in Caltrans ROW (small section of Hwy 49, if the Green project were to not start around this area then the Green St project would start at the southern intersection of Pleasant Valley and Hwy 49 and extend to the Slate Creek bridge crossing on the western end of the project).</p> <p>The project revolves around the concept of a Green Street that will help improve water quality and reduce flooding to residents. A Green Street is a street that uses vegetated facilities to manage runoff from stormwater. A project of this kind is a reliable stormwater strategy that can effectively be used to meet regulatory compliance as well as being capable of protecting natural resources. A developed Green Street has the ability to manage stormwater runoff, reduce flows, improve water quality and improve watershed health.</p> <p>Green street projects may involve any of the following items:</p> <ul style="list-style-type: none"> Reducing the amount of polluted stormwater that is discharged into a water body Divert stormwater from the sewer system, sewer backups and combined sewer overflows Reduce impervious surface so stormwater can infiltrate to recharge groundwater and surface water Increase urban green space Improve air quality and reduce air temperatures Reduce demand on sewer or septic collection systems and the cost of constructing expensive pipe systems Address requirements of federal and state regulations to protect public health and restore and protect watershed health Increase opportunities for industry professionals. <p>For this project flood risks will be mitigated by diverting stormwater runoff to wetlands found in close proximity, if possible. By using wetlands, stormwater runoff will be captured, treated and infiltrated into the ground. Additionally, grass swales will be placed along Pleasant Valley Rd, if possible, for stormwater conveyance that will treat and filtrate runoff into the ground before it reaches the surrounding water bodies. Vegetation and trees will be planted as well. Low impact development (LID) approaches will be applied for this project.</p>			
Component			
Stormwater Management			
Potential Challenges			
Traffic delays during construction period.			
Conceptual GIS Map of Site			

WEST SLOPE STORMWATER RESOURCE PLAN

Appendix B Project Description Forms
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ID 308 - Town of El Dorado Green Street Project

Project Type

- Stormwater Management
- Linear Project Limits
- Project Limits

Project Component:
Stormwater Management

Latitude: 38.682531
Longitude: -120.848509

Projection: CA SP II NAD83
Background: NAIP (2016)
Prepared: December, 2017

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Appendix B Project Description Forms
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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input checked="" type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		El Dorado County Department of Transportation, California Department of Transportation, El Dorado County- Community Development Services, and Town of El Dorado
Stage of Development		
<input checked="" type="checkbox"/> Conceptual <input type="checkbox"/> Planning <input type="checkbox"/> Pre-Design <input type="checkbox"/> Design <input type="checkbox"/> Construction <input type="checkbox"/> Other		
Expected Project Timeline	Begin: 2019, End: 2021	
Project Triggers	Road failure	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program U.S. Department of Transportation (DOT) - Transportation Investment Generating Economic Recovery (TIGER) Discretionary Grant Program		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
<input checked="" type="checkbox"/> Primary <input type="checkbox"/> Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas

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<p>A Green Street Project in the community of El Dorado will generate a multitude of benefits. This project has the potential to create areas along Pleasant Valley Rd that will be used to infiltrate storm runoff, reduce nonpoint source pollution, reduce the amount of runoff generated after a storm event, and reduce sanitary sewer overflows by using a series of stormwater management efforts. This project will ultimately help improve the water quality conditions in the area through the use of various ecologically based stormwater treatment technologies, including the use of wetlands and grass swales. Since swales will be constructed, natural drainage systems will be introduced, and the filtration and treatment of stormwater runoff will result which will contribute towards reducing non-point source pollution. This project will provide a great opportunity to educate the public on Green Streets and the benefits that they can provide. It will also provide an opportunity for local contractors to learn about this project and will provide some employment opportunities. By planting vegetation and trees, there will be an introduction of urban green space along Pleasant Valley Road.</p>	
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, not added to IRWM currently</u>
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one <u>Project found under 2010-2014 DAC Block Groups as identified by the CA Department of Water Resources</u> <input type="checkbox"/> No _____
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, no environmental documentation is completed yet</u>
Contact Person(s):	
Brian Mullens, El Dorado County Department of Transportation Highway Superintendent, brian.mullens@edcgov.us , (530) 642-4924 Brendan Ferry, El Dorado County Principal Planner, brendan.ferry@edcgov.us , (530) 573-7905	
Key References:	
NA	
Supplemental Information (e.g., Project Webpage or equivalent):	
NA	

¹DAC = Disadvantaged Communities
EDA = Economically Distressed Area

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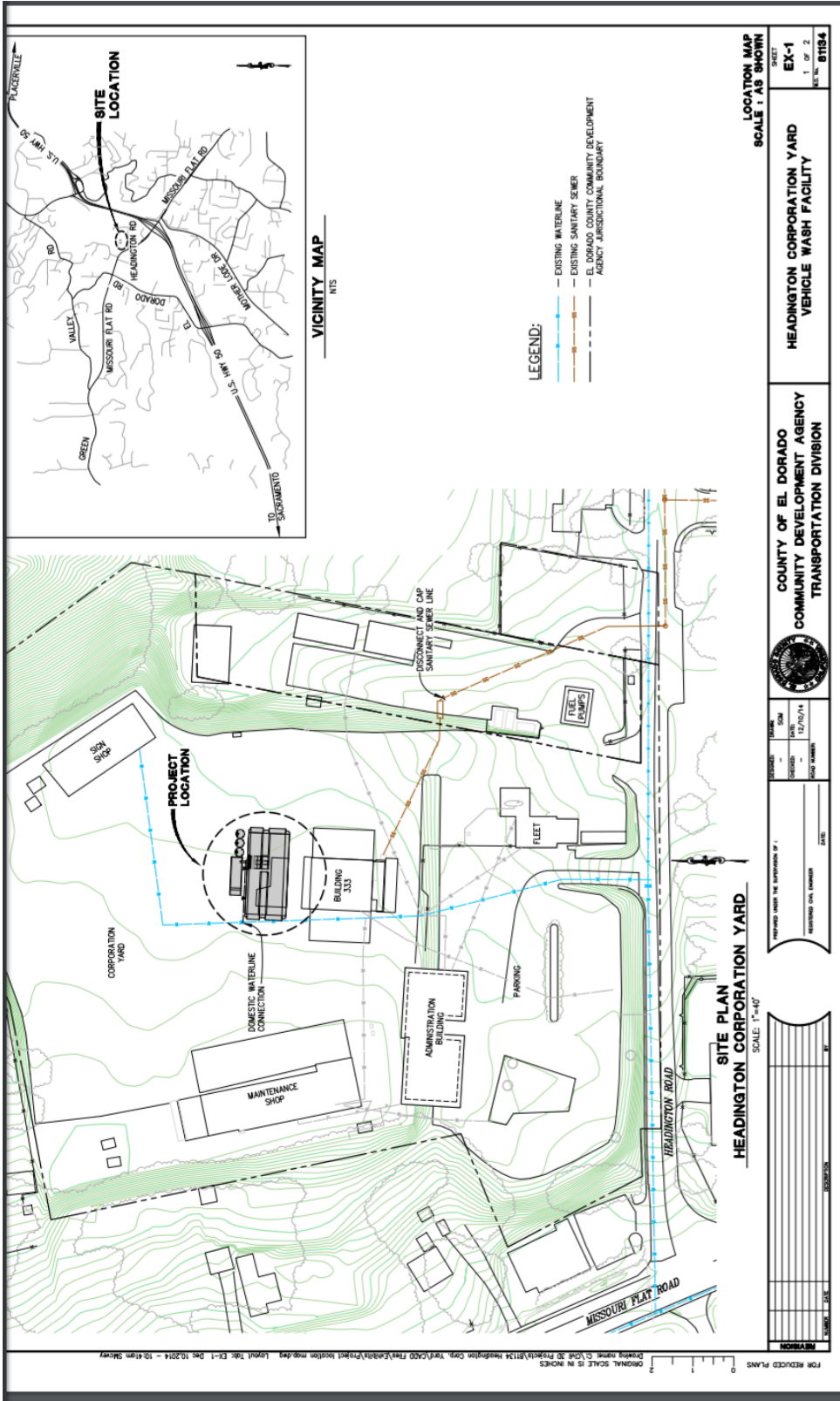
Appendix B Project Description Forms
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B.4.10 309 Headington Yard Wash Rack

Project/Program Name	<i>Headington Yard Wash Rack</i>		
Responsible Agency	El Dorado County- Community Development Services		
Partner Agency (ies)	NA		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$650,000		
Unit Cost	NA		
Site Coordinates	Latitude: 38.715862°	Longitude: -120.841663°	
Description			
<p>The Headington Wash Rack Facility Project is a project to construct a wash and maintenance facility for the County of El Dorado to use for maintaining the county's vehicles and equipment. The project consists of constructing an enclosed building that houses a contained wash system that automatically treats and reuses the wash water for vehicle and equipment cleaning and maintenance. The project proposes to greatly reduce the use of potable water provided by EID through both the reuse of the treated cleaning water and utilizing rain tanks for rainwater storage through the dry months. The project also proposes to disconnect the facility from the sewer. Finally, the project proposes to increase effective water quality and storm water management at the facility by enclosing and containing pollutant sources and pollutant generating activities (i.e. washing and stored materials) from potential contact with storm water and by reducing site runoff through the implementation of water conservation activities (i.e. use of rain tanks).</p>			
Component			
Stormwater Management			
Potential Challenges			
Funding			
Coordination with all involved parties and schedule sensitivity			
Conceptual GIS Map of Site			
<p>A map is attached from the following presentation: http://www.water.ca.gov/waterenergygrant/2014Applications/County%20of%20El%20Dorado%20(201418760090)/Attachment%203%20-%203_WE14_EDC_Work%20Plan_2ofTotal2.pdf</p>			

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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input type="checkbox"/> Improve health of local watersheds <input checked="" type="checkbox"/> Improve local water supply reliability <input checked="" type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input checked="" type="checkbox"/> Increase community awareness for sustainable water		El Dorado County- Community Development Services, County of El Dorado Department of Transportation
Stage of Development		
<input type="checkbox"/> Conceptual <input type="checkbox"/> Planning <input type="checkbox"/> Pre-Design <input checked="" type="checkbox"/> Design <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Other		
Project is currently designed and shelf ready for advertisement to bid. Pending funding approval for construction.		
Expected Project Timeline	Begin: 2018, End: 2020	
Project Triggers	The project currently has an approved CEQA document and holds approved building permits with sign off by the applicable utility agencies and fire department. If the necessary funding approvals do not occur in 2017 for final construction in 2018, the project is at risk of needing to go back through the sign off process and attain new building permits. This process is both very costly and greatly increases schedule.	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability Conjunctive use	Water conservation
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas

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<p>This project will achieve the listed benefits since it will eliminate sewer discharges and nearly eliminate domestic water needs. Overall, this project was created to replace and improve the existing uncovered wash rack for County fleet vehicles, thereby eliminating runoff and sewer discharges, decreasing use of domestic water for equipment maintenance and greatly improving water quality and environmental benefits. Water supply reliability will be accomplished in this project because the rain storage tank will be used for water needs on site, an effort geared towards promoting water conservation. The project will also provide job opportunities during the construction phase. Additionally, the project has the potential to improve the natural hydrograph of Weber Creek, engage the community and has a public education component.</p>	
<p>Project Included in IRWM:</p>	<p><input type="checkbox"/> Yes, which one _____</p> <p><input checked="" type="checkbox"/> No, explain <u>Not added to IRWM currently</u></p>
<p>Project Benefits a DAC/EDA:</p>	<p><input checked="" type="checkbox"/> Yes, which one <u>Project found under 2010-2014 DAC Block Groups as identified by the CA Department of Water Resources</u></p> <p><input type="checkbox"/> No _____</p>
<p>CEQA Compliance:</p>	<p><input checked="" type="checkbox"/> Yes, explain <u>CEQA has been completed</u></p> <p><input type="checkbox"/> No, explain _____</p>
<p>Contact Person(s):</p>	
<p>Jon Balzer, Senior Civil Engineer, jon.balzer@edcgov.us</p>	
<p>Key References:</p>	
<p>NA</p>	
<p>Supplemental Information (e.g., Project Webpage or equivalent):</p>	
<p>NA</p>	

¹DAC = Disadvantaged Communities
 EDA = Economically Distressed Area

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B.4.11 310 Fairgrounds Water Quality Improvements

Project/Program Name	<i>Fairgrounds Water Quality Improvements</i>		
Responsible Agency	El Dorado County- Community Development Services		
Partner Agency (ies)	NA		
Net Yield	Normal Year: 56 AF/y	Wet Year: 77 AF/y	Dry Year: 39 AF/y
Estimated Cost	Capital: Cost not calculated due to conceptual nature of project.		
Unit Cost	NA		
Site Coordinates	Latitude: 38.725317°	Longitude: -120.833752°	
Description			
<p>Under this project, water quality improvements will take place in the El Dorado County Fairgrounds. The water quality improvements that will be done will reduce the occurrence of erosion. Under this project, technology can be incorporated in the fairgrounds that captures and reuses stormwater on site, treats impervious runoff, provides groundwater infiltration, includes drainage ditch enhancements, reduces runoff, and prevents non-point source pollution. A rooftop rainwater capture system will be incorporated for non-potable water use on site. Near the roads (if possible), grass swales will be added for stormwater conveyance that will treat and filtrate runoff into the ground. Additionally, surrounding the paved areas of the Fairgrounds, grass filter strips will be added if possible to treat surface flow from the adjacent impervious areas. Ditches will be added to divert stormwater runoff to the swales and grass filter stripes. The implementation of this project will provide an opportunity for public outreach and an opportunity to demonstrate to the public the technology that was used to treat, capture and reuse stormwater runoff. Low impact development (LID) approaches will be applied for this project.</p>			
Component			
Stormwater Management			
Potential Challenges			
Improvements may interfere with fair events.			
Conceptual GIS Map of Site			

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ID 310 - Fairgrounds Water Quality Improvements

Project Type

- Stormwater Management (Yellow circle)
- Linear Project Limits (Yellow line)
- Project Limits (Green shaded area)

Project Component:
Stormwater Management

Latitude: 38.725317
Longitude: -120.833752

0 400 800 Feet

Projection: CA SP II NAD83
Background: NAIP (2016)
Prepared: December, 2017

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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input checked="" type="checkbox"/> Increase community awareness for sustainable water		El Dorado County- Community Development Services, City of Placerville, and El Dorado County Fair Association
Stage of Development		
<input checked="" type="checkbox"/> Conceptual <input type="checkbox"/> Planning <input type="checkbox"/> Pre-Design <input type="checkbox"/> Design <input type="checkbox"/> Construction <input type="checkbox"/> Other		
Expected Project Timeline	Begin: 2019, End: 2019	
Project Triggers	Local water quality worsens Funding	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas
Water quality improvements will be achieved on site after implementing a series of technology that will be used to treat or infiltrate stormwater runoff. The technology that will be used on site will help reduce non-point source		

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<p>pollution and ultimately help improve the environment and local habitats. By implementing this project the flood risk in the area can be mitigated and short term employment opportunities will be generated. The land will be enhanced for the public to enjoy, the work done at the fairgrounds will be used to provide an opportunity for public outreach, and an opportunity to demonstrate to the public the technology that was used to treat, capture and reuse stormwater runoff on site will be created. Since the project will include the capturing of rainwater and the use of it on site, the project will help improve water supply reliability at a local scale on site, which will help towards water conservation efforts. Since grass swales and grass filter stripes will be constructed, natural drainage systems will be introduced, and the filtration and treatment of stormwater runoff will result which will contribute towards reducing non-point source pollution. Flood risk will be reduced as ditches will be used to divert stormwater into the swales and grass filter stripes.</p>	
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, not added to IRWM currently</u>
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one <u>Project Found under 2010-2014 DAC Block Groups as identified by the CA Department of Water Resources.</u> <input type="checkbox"/> No _____
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, no environmental documentation is completed yet</u>
Contact Person(s):	
Brendan Ferry, El Dorado County Principal Planner, brendan.ferry@edcgov.us , (530) 573-7905	
Key References:	
NA	
Supplemental Information (e.g., Project Webpage or equivalent):	
NA	

¹DAC = Disadvantaged Communities
EDA = Economically Distressed Area

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B.4.12 311 Maintenance Material Storage Buildings at Missouri Flat Rd and Somerset Sand Mine

Project/Program Name	<i>Maintenance Material Storage Buildings at Missouri Flat Rd and Somerset Sand Mine</i>		
Responsible Agency	El Dorado County Department of Transportation		
Partner Agency (ies)	NA		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: Cost not calculated due to conceptual nature of project.		
Unit Cost	NA		
Site Coordinates	Latitude: Missouri Flat Rd: 38.718037° Somerset Sand Mine: 38.644863°	Longitude: Missouri Flat Rd: -120.850461° Somerset Sand Mine: -120.692577°	
Description			
<p>The Somerset Sand Mine site is used by the El Dorado County, Department of Transportation (EDCDOT) to extract decomposed granitic sand. The extraction portion of the operation is seasonal (August to December), with processed material used each year for snow and ice control on county roads, and for emergency services by the Office of Emergency Services for sand bags and flood hazard control. The material is ripped by a dozer and pushed down the east-northeast-facing hillside and stockpiled, and then loaded into dump trucks for distribution as needed. The mine area includes a maintenance/storage building, equipment staging area, sediment retention structures, stockpiled product and imported material for blending, imported topsoil/overburden stockpile in the southwestern portion of the site, and a revegetation test plot. The site entrance is immediately east of Sand Ridge Road. The working face includes south, west, and northwest-facing cut slopes situated in the east-central portion of the site. Under the proposed project, the maintenance/storage building would be updated so that the building can continue to enclose materials and equipment. A new covered structure would be constructed to enclose any fine material and stockpiled sand that is generated at the site. Enclosing and containing pollutant sources such as sand and silt will increase effective water quality and storm water management. At the Headington Corporation Yard Facility, a new covered structure is being proposed to enclose materials used for the operation and maintenance of County roads. In undergoing this project, a rooftop rainwater capture system may be incorporated for non-potable water use. The rainwater that is captured may be used for dust control, may be used by the street sweepers, or may be used for landscape water.</p> <p>By undergoing the proposed project, water quality will be improved and the project will meet MS4 compliance.</p>			
Component			
Stormwater Management			
Potential Challenges			
Construction may interfere with current operations			
Conceptual GIS Map of Site			

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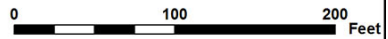
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ID 311a - Maintenance Material Storage Buildings at Missouri Flat Rd and Somerset Sand Mine

- Project Type**
-  Stormwater Management
 -  Linear Project Limits
 -  Project Limits

Project Component:
Stormwater Management
Latitude: 38.718037
Longitude: -120.850461

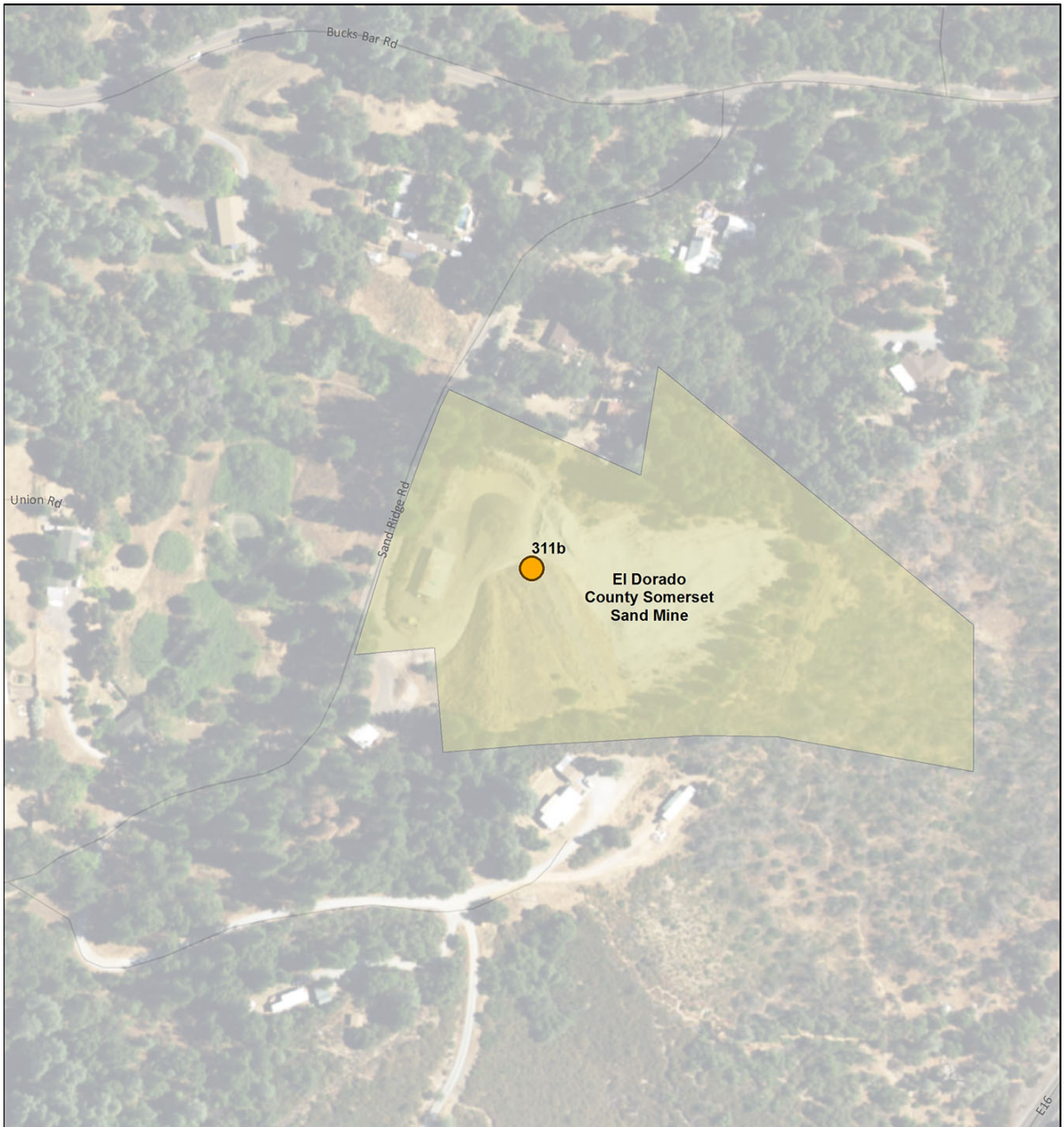


Projection: CA SP II NAD83
Background: NAIP (2016)
Prepared: December, 2017

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ID 311b - Maintenance Material Storage Buildings at Missouri Flat Rd and Somerset Sand Mine

Project Type

- Stormwater Management
- Linear Project Limits
- Project Limits

Project Component:
Stormwater Management

Latitude: 38.644863
Longitude: -120.692577

Projection: CA SP II NAD83
Background: NAIP (2016)
Prepared: December, 2017

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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input checked="" type="checkbox"/> Improve local water supply reliability <input checked="" type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		El Dorado County- Community Development Services, County of El Dorado Department of Transportation
Stage of Development		
<input checked="" type="checkbox"/> Conceptual <input type="checkbox"/> Planning <input type="checkbox"/> Pre-Design <input type="checkbox"/> Design <input type="checkbox"/> Construction <input type="checkbox"/> Other		
Expected Project Timeline	Begin: 2019, End: 2019	
Project Triggers	Extreme weather conditions	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas

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Under this project nonpoint source pollution will be reduced as the material/storage buildings will contain and prevent constituents such as sand and silt loads to be discharged into the local water bodies. Since the project will include the capturing of rainwater and the use of it on site, the project will help improve water supply reliable at a local scale, which will help towards water conservation efforts. This project will generate short term employment opportunities and engage the community as well as help reduce greenhouse gas emissions.	
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, not added to IRWM currently</u>
Project Benefits a DAC/EDA: ¹	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No _____
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, no environmental documentation is completed yet</u>
Contact Person(s):	
Brendan Ferry, El Dorado County Principal Planner, brendan.ferry@edcgov.us , (530) 573-7905	
Key References:	
NA	
Supplemental Information (e.g., Project Webpage or equivalent):	
NA	

¹DAC = Disadvantaged Communities
 EDA = Economically Distressed Area

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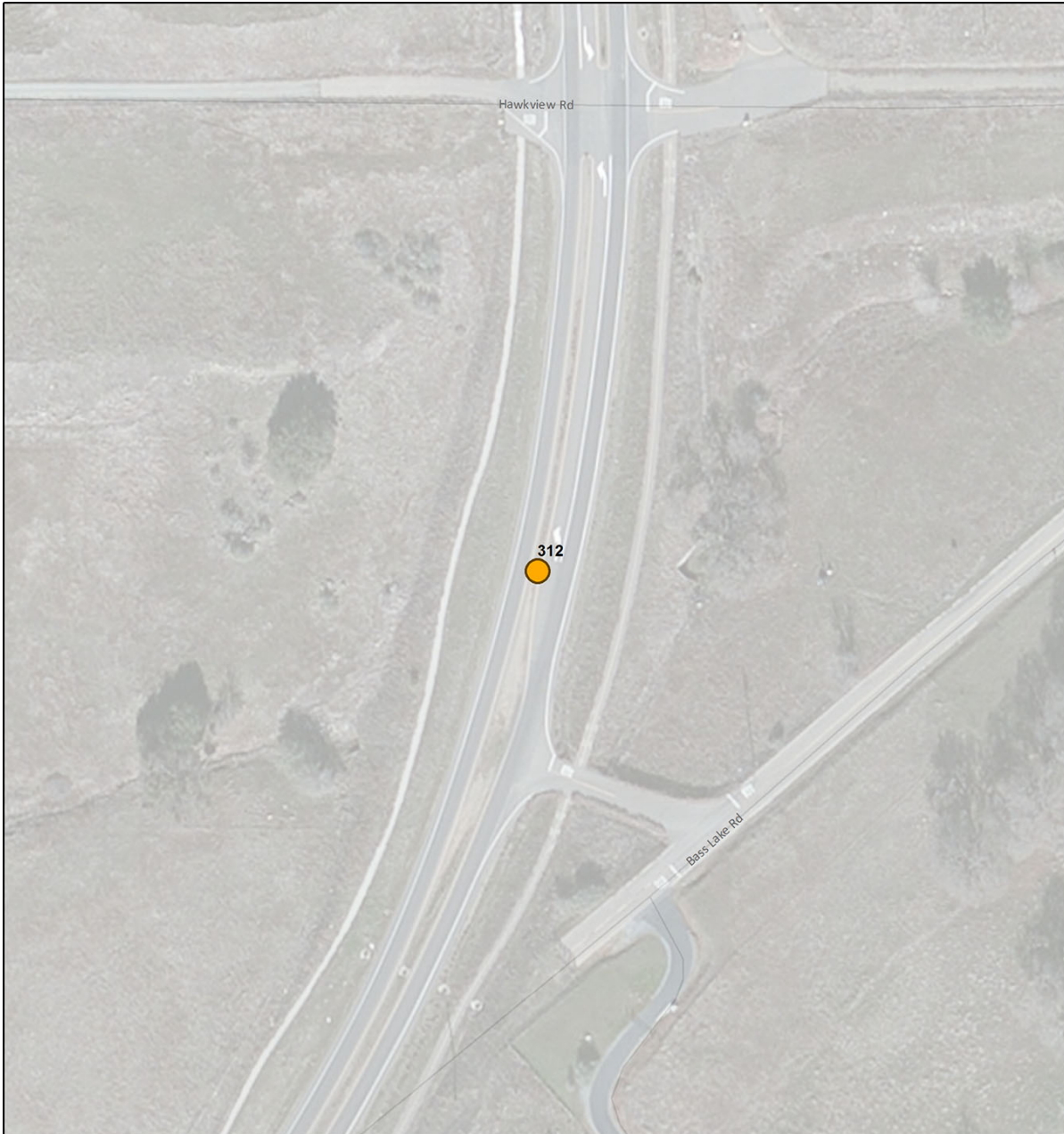
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B.4.13 312 Future Bass Lake Maintenance Station

Project/Program Name	<i>Future Bass Lake Maintenance Station</i>		
Responsible Agency	El Dorado County Department of Transportation		
Partner Agency (ies)	NA		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: Cost not calculated due to conceptual nature of project.		
Unit Cost	NA		
Site Coordinates	Latitude: 38.670132°	Longitude: -121.031049°	
Description			
<p>This project was developed to provide a new maintenance facility at Bass Lake Rd. There is currently no maintenance facility that serves the heavily populated area found in that region of El Dorado County. The proposed facility is to be a place where street sweepers can unload and store the swept contents before it is disposed of elsewhere. Ultimately, this project was developed to enhance the street sweeping and vactoring program infrastructure maintenance, MS4 compliance, and for helping improve the water quality. In implementing the project, greenhouse gas emissions will be reduced, the amount of fuel used by the street sweepers and vactor trucks will be reduced, and the amount of travel the employees will have to do for maintenance will be reduced. With the construction of this facility, a rooftop rainwater collection system can be added for non-potable water use. The water obtained from the rainwater capture system may be used for dust control, as water for the street sweepers, and for irrigation needs. Grass swales will be placed near Bass Lake Rd if possible for stormwater conveyance which will treat and filtrate runoff into local water bodies. Low impact development (LID) approaches will be applied for this project.</p>			
Component			
Stormwater Management			
Potential Challenges			
Construction interference or disturbances to locals			
Conceptual GIS Map of Site			

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ID 312 - Future Bass Lake Maintenance Station

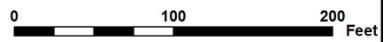
Project Type

● Stormwater Management

■ Linear Project Limits

■ Project Limits

Project Component:
 Stormwater Management
Latitude: 38.670132
Longitude: -121.031049



Projection: CA SP II NAD83
 Background: NAIP (2016)
 Prepared: December, 2017

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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		El Dorado County Department of Transportation
Stage of Development		
<input checked="" type="checkbox"/> Conceptual <input type="checkbox"/> Planning <input type="checkbox"/> Pre-Design <input type="checkbox"/> Design <input type="checkbox"/> Construction <input type="checkbox"/> Other		
Expected Project Timeline	Begin: 2019, End: 2019	
Project Triggers	Funding	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas

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<p>The proposed project was developed to protect the integrity of the local water quality. The construction of this facility will prevent the discharge of unwanted material or constituents into local water bodies because Street Sweepers will be unloaded in a contained area. Since this facility will be located in close proximity to a heavily populated area, the street sweepers will not have to travel far to unload the swept contents, this in turn will help reduce carbon emissions. Without the construction of this facility, street sweepers need to travel to a further location to unload their contents. This project will create short term employment opportunities and will improve water supply reliability on site as a stormwater capture system will be installed on site. The installation of the rainwater capture system will help promote water conservation efforts. Additionally, because grass swales will be constructed, natural drainage systems will be introduced, and the filtration and treatment of stormwater runoff will result which will contribute towards reducing non-point source pollution.</p>	
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, not added to IRWM currently</u>
Project Benefits a DAC/EDA: ¹	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No _____
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, no environmental documentation is completed yet</u>
Contact Person(s):	
Brian Mullens, El Dorado County Department of Transportation Highway Superintendent, brian.mullens@edcgov.us , (530) 642-4924 Brendan Ferry, El Dorado County Principal Planner, brendan.ferry@edcgov.us , (530) 573-7905	
Key References:	
NA	
Supplemental Information (e.g., Project Webpage or equivalent):	
NA	

¹DAC = Disadvantaged Communities
EDA = Economically Distressed Area

WEST SLOPE STORMWATER RESOURCE PLAN

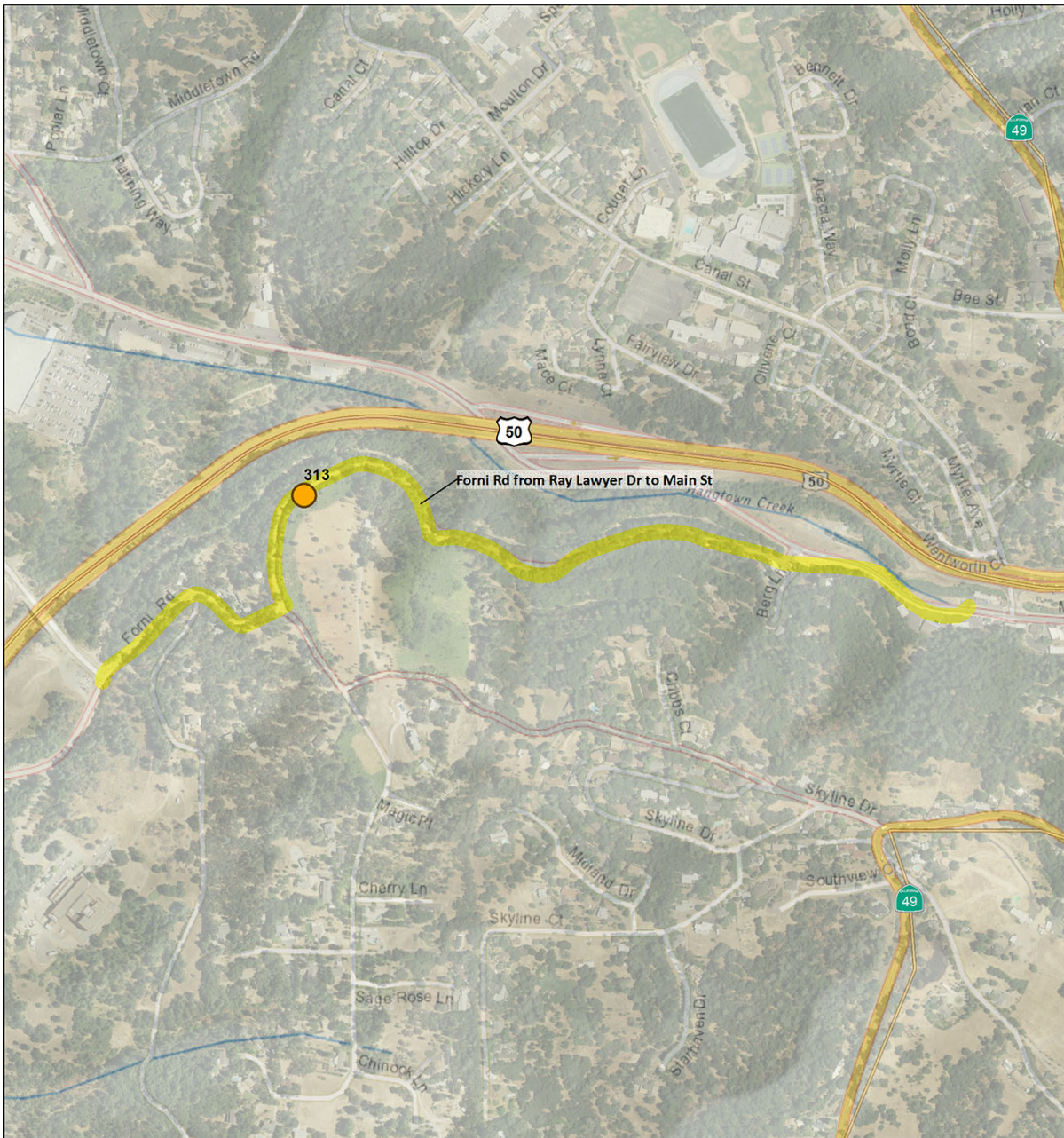
Appendix B Project Description Forms
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B.4.14 313 Forni Road Slope Stabilization

Project/Program Name	<i>Forni Road Slope Stabilization</i>		
Responsible Agency	El Dorado County- Community Development Services		
Partner Agency (ies)	City of Placerville		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: Cost not calculated due to conceptual nature of project.		
Unit Cost	NA		
Site Coordinates	Latitude: 38.720466°	Longitude: -120.833685°	
Description			
<p>The proposed project, Forni Road Slope Stabilization and ditching, is a water quality project set to occur on Forni Road from Ray Lawyer Drive to Main Street in Placerville in the County of El Dorado. This project was developed to control erosion and convey stormwater to Hangtown Creek with a decreased sediment load. Bank stabilization will be accomplished by planting trees and native vegetation. The reduction of pollutants will be accomplished by placing swales along Forni Road. If possible, low impact development (LID) approaches will be applied for this project.</p> <p>Examples of LID implementation:</p> <p>Natural drainage patterns, native vegetation, and stabilization of soil are important in preventing flooding and degradation of water quality.</p> <p>Natural landscaping will be used to preserve and restore natural plant to protect natural resources and habitat, prevention of flooding and erosion, and the enhancement of the quality and quantity of water resources.</p> <p>Filter strips will be installed to treat runoff from roads and highways.</p> <p>Grass swales are used to treat highway or residential road runoff. The vegetation slows the stormwater runoff to allow sedimentation, filtering through a subsoil matrix and infiltration into the underlying soils.</p>			
Component			
Watershed Management			
Potential Challenges			
Construction disturbances to locals			
Conceptual GIS Map of Site			

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ID 313 - Forni Road Slope Stabilization

Project Type

● Stormwater Management

Linear Project Limits

Project Limits

Project Component:
Stormwater Management
Latitude: 38.720466
Longitude: -120.833685



0 700 1,400 Feet

Projection: CA SP II NAD83
Background: NAIP (2016)
Prepared: December, 2017

G:\EDCWAI_MXD\Reports\SRP\Mapbook\SelectedProjects_mapbook.mxd

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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		El Dorado County- Community Development Services, local residents, City of Placerville
Stage of Development		
<input checked="" type="checkbox"/> Conceptual <input type="checkbox"/> Design		<input type="checkbox"/> Planning <input type="checkbox"/> Construction <input type="checkbox"/> Pre-Design <input type="checkbox"/> Other
Expected Project Timeline	Begin: 2019, End: 2020	
Project Triggers	Road failures	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program U.S. Department of Transportation (DOT) - Transportation Investment Generating Economic Recovery (TIGER) Discretionary Grant Program		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
<input checked="" type="checkbox"/> Primary <input type="checkbox"/> Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas

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<p>The proposed project on Fonri Road will help address the erosion problems that are observed. With the completion of this project nonpoint source pollution will be mitigated because the erosion in the area will be under control. This project will provide short term employment opportunities, the community will be engaged, and will provide an education component. Since swales will be constructed, natural drainage systems will be introduced, and the filtration and treatment of stormwater runoff will result which will contribute towards reducing non-point source pollution.</p>	
<p>Project Included in IRWM:</p>	<p><input type="checkbox"/> Yes, which one _____</p> <p><input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, not added to IRWM currently</u></p>
<p>Project Benefits a DAC/EDA:¹</p>	<p><input checked="" type="checkbox"/> Yes, which one <u>Project found under 2010-2014 DAC Places as identified by the CA Department of Water Resources</u></p> <p><input type="checkbox"/> No _____</p>
<p>CEQA Compliance:</p>	<p><input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, no environmental documentation is completed yet</u></p>
<p>Contact Person(s):</p>	
<p>Brendan Ferry, El Dorado County Principal Planner, brendan.ferry@edcgov.us, (530) 573-7905</p>	
<p>Key References:</p>	
<p>NA</p>	
<p>Supplemental Information (e.g., Project Webpage or equivalent):</p>	
<p>NA</p>	

¹DAC = Disadvantaged Communities
 EDA = Economically Distressed Area

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B.4.15 314 Street Sweeping Program

Project/Program Name	<i>Street Sweeping Program</i>		
Responsible Agency	El Dorado County Department of Transportation		
Partner Agency (ies)	NA		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$500,000 (\$250,000 per street sweeper x 2)		
Unit Cost	NA		
Site Coordinates	Latitude: 38.727779° (El Dorado County Department of Transportation)	Longitude: -120.829955° (El Dorado County Department of Transportation)	
Description			
<p>El Dorado County does not have many street sweepers. Under the proposed project the County would purchase more street sweeper to sweep the streets and thus reduce the quantity of sediment, trash and debris that may end up in the local water bodies on a daily basis or during a storm event.</p> <p>BMP Examples for Street Sweeping: Objectives: Soil Stabilization, Sediment Control, and Tracking Control Definition/Purpose: Practices to remove tracked sediment to prevent the sediment from entering a storm drain or watercourse. Appropriate Applications: These practices are implemented anywhere sediment is tracked on public or private paved roads. Limitations: Sweeping and vacuuming may not be effective when soil is wet or muddy Standards and Specifications: Kick broom or sweeper attachments shall not be used Inspect potential sediment tracking locations daily Visible sediment tracking shall be swept and/or vacuumed daily Maintenance and Inspection: Be careful not to sweep up any unknown substance or any object that may be potentially hazardous Adjust brooms frequently; maximize efficiency of sweeping operations After sweeping is finished, properly dispose of sweeper wastes at an approved dumpsite. Outcomes: Project implementation will reach the objectives of erosion control, sediment control and tracking control</p>			
Component			
Stormwater Management			
Potential Challenges			
Funding			
Conceptual GIS Map of Site			
No available map			

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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input checked="" type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		El Dorado County Department of Transportation
Stage of Development		
<input checked="" type="checkbox"/> Conceptual <input type="checkbox"/> Design		<input type="checkbox"/> Planning <input type="checkbox"/> Construction <input type="checkbox"/> Pre-Design <input type="checkbox"/> Other
Expected Project Timeline	Begin: 2019, End: 2019	
Project Triggers	Funding Current street sweepers breakdown	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas

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Under this project, the purchase of additional street sweepers will help improve the water quality in the region by helping reduce the amount of trash that is discharged into the local water bodies. Consequently, this project will improve the environment and local habitat conditions. In addition, this project will create jobs as personnel will be needed to drive the additional street sweepers. Project will also engage the community and have a public education component.	
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, not added to IRWM currently</u>
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one <u>Street sweepers will benefit several areas including DACs and EDAs</u> <input type="checkbox"/> No _____
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, no environmental documentation is completed yet</u>
Contact Person(s):	
Brendan Ferry, El Dorado County Principal Planner, brendan.ferry@edcgov.us , (530) 573-7905	
Key References:	
NA	
Supplemental Information (e.g., Project Webpage or equivalent):	
NA	

¹DAC = Disadvantaged Communities
EDA = Economically Distressed Area

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B.4.16 315 Vector Truck Program

Project/Program Name	Vector Truck Program		
Responsible Agency	El Dorado County Department of Transportation		
Partner Agency (ies)	NA		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$1,000,000 (\$500k per truck x 2)		
Unit Cost	NA		
Site Coordinates:	Latitude: 38.727779° (El Dorado County Department of Transportation)	Longitude: -120.829955° (El Dorado County Department of Transportation)	
Description			
<p>El Dorado County does not have many vector trucks. Under the proposed project the County would purchase more vector trucks to maintain the County of El Dorado's drainage infrastructure. By implementing this project, the willingness to build additional green infrastructure will be encouraged.</p> <p>Vector trucks are used to clean storm sewers and catch basins. Purchasing additional vector trucks will enable the County to maintain drainage infrastructure and encourage the development of green infrastructure.</p>			
Component			
Stormwater Management			
Potential Challenges			
Funding			
Conceptual GIS Map of Site			
No available map			
Purpose(s)		Key Stakeholders	
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input checked="" type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		El Dorado County Department of Transportation	
Stage of Development			
<input checked="" type="checkbox"/> Conceptual <input type="checkbox"/> Design	<input type="checkbox"/> Planning <input type="checkbox"/> Construction	<input type="checkbox"/> Pre-Design <input type="checkbox"/> Other	

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Expected Project Timeline	Begin: 2019, End: 2019	
Project Triggers	Funding Current vactor trucks breakdown	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas
By purchasing additional vactor trucks, the occurrence of nonpoint source pollution will be reduced in some areas throughout the County. The use of the additional vactor trucks will lead to the creation of job opportunities, community involvement, and will educate the public.		
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, not added to IRWM currently</u>	
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one <u>Street sweepers will benefit several areas including DACs and EDAs</u> <input type="checkbox"/> No _____	

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CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, no environmental documentation is completed yet</u>
Contact Person(s):	
Brendan Ferry, El Dorado County Principal Planner, brendan.ferry@edcgov.us , (530) 573-7905	
Key References:	
NA	
Supplemental Information (e.g., Project Webpage or equivalent):	
NA	

¹DAC = Disadvantaged Communities
 EDA = Economically Distressed Area

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B.4.17 316 Diamond Springs Parkway-Roadway and Drainage Improvement Project

Project/Program Name	<i>Diamond Springs Parkway-Roadway and Drainage Improvement Project</i>		
Responsible Agency	El Dorado County- Community Development Services		
Partner Agency (ies)	County of El Dorado Department of Transportation, California Department of Transportation		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$15 Million		
Unit Cost	NA		
Site Coordinates	Latitude: 38.701126°	Longitude: -120.811324°	
Description			
<p>The Diamond Springs Parkway project will provide a connection from State Route 49 to Missouri Flat Road, alleviating existing traffic congestion on State Route 49 through the town of Diamond Springs, CA. The project improvements will include widening and realignment of State Route 49 from Fowler Drive to Bradley Drive, construction of a new 4-lane arterial road from State Route 49 to Missouri Flat Road, drainage system improvements, and relocation of utilities to underground. The Parkway will provide an important route for south county residents to Missouri Flat Road, eventually leading to US 50, as well as providing parallel capacity to State Route 49 in the east-west direction. Drainage improvements will include using existing wetlands to treat and infiltrate stormwater runoff. For the areas that do not have access to a wetland, grass filter stripes will be used along the road to treat and infiltrate additional stormwater runoff.</p> <p>Right of way acquisition involved several parcels. As of November 2017, only one parcel has been bought. Some of these acquisitions involve businesses, which add a great deal of time to complete. The remaining acquisitions will take place from 2018-2020. The County has contacted each of the land owners and held preliminary discussions regarding the project impacts and anticipated acquisitions.</p>			
Component			
Stormwater Management			
Potential Challenges			
Environmental Site Remediation MS4 Compliance			
Conceptual GIS Map of Site			

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<p>https://www.edcgov.us/government/dot/diamsprpkwy/documents/Diam%20Springs%20Pkwy%20Proj%20Map%203-18-13.pdf</p>	
<p>Purpose(s)</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water 	<p>Key Stakeholders</p> <p>El Dorado County- Community Development Services ,County of El Dorado Department of Transportation, and California Department of Transportation</p>
<p>Stage of Development</p> <p> <input type="checkbox"/> Conceptual <input type="checkbox"/> Planning <input type="checkbox"/> Pre-Design <input checked="" type="checkbox"/> Design <input type="checkbox"/> Construction <input type="checkbox"/> Other </p>	
<p>Expected Project Timeline</p>	<p>Begin: 2019, End: 2022</p>
<p>Project Triggers</p>	<p>NA; project under development</p>
<p>Potentially Applicable Federal and State Programs for Technical and Financial Assistance</p>	
<p>California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program</p>	

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U.S. Department of Transportation (DOT) - Transportation Investment Generating Economic Recovery (TIGER) Discretionary Grant Program		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas
<p>This project will provide road improvements which will improve road conditions that will reduce erosion. Additionally, ecologically based stormwater treatment technologies, such as the use of wetlands and grass filter stripes, will help improve the water quality at a local scale. By implementing this project stormwater runoff will be filtrated/treated, non-point source pollution will be reduced, the flood risk will be reduced, and the natural treatment of stormwater runoff will be reestablished. This project will help create short term employment opportunities, will involve the community and will help reduce greenhouse gas emissions. Project has a public education component.</p>		
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain _____	
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one <u>Project found under the 2010-2014 DAC Tracts as identified by the CA department of Water Resources</u> <input type="checkbox"/> No _____	
CEQA Compliance:	<input checked="" type="checkbox"/> Yes, explain <u>Completed in 2011</u> <input type="checkbox"/> No, explain _____	
Contact Person(s):		
Dustin Harrington, Senior Civil Engineer, dustin.harrington@edcgov.us		

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Key References:
NA
Supplemental Information (e.g., Project Webpage or equivalent):
https://www.edcgov.us/government/dot/diamsprpkwy/documents/Diam%20Springs%20Pkwy%20Public%20Mtg%203-18-13_Presentation.pdf https://www.edcgov.us/government/dot/diamsprpkwy/documents/Diam%20Springs%20Pkwy%20Fact%20Sheet%203-18-13.pdf

¹DAC = Disadvantaged Communities
EDA = Economically Distressed Area

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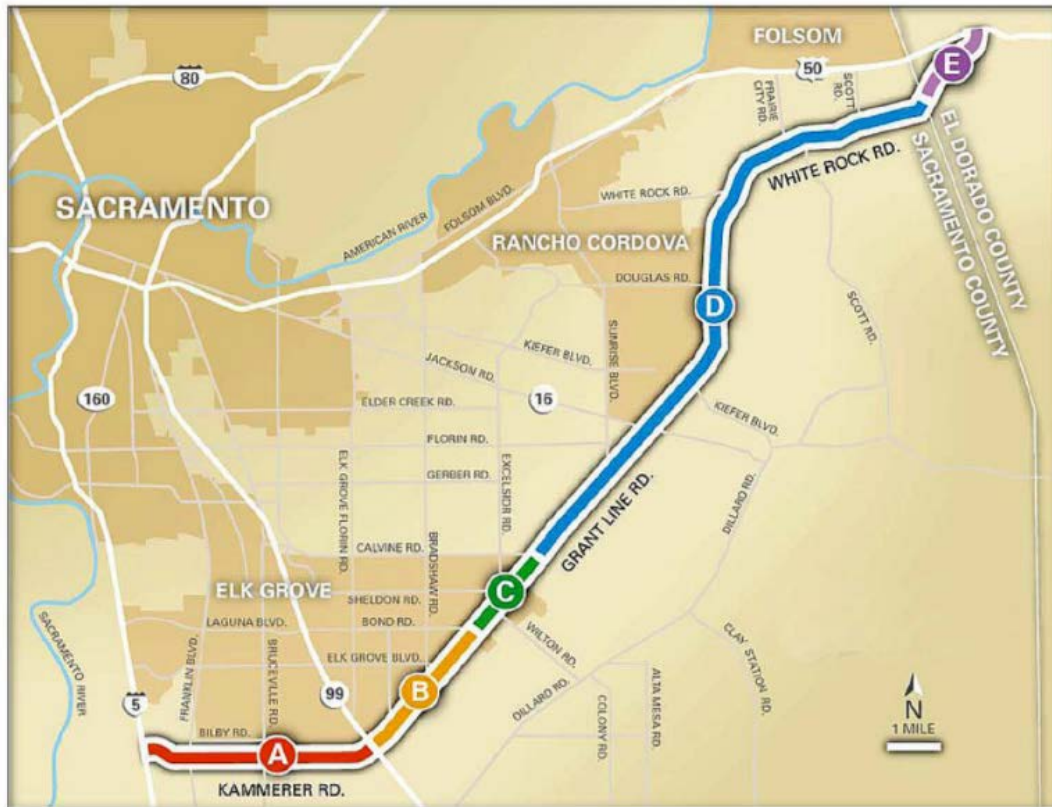
B.4.18 317 South East Connector-Expressway LID Projects

Project/Program Name	<i>South East Connector-Expressway LID Projects</i>		
Responsible Agency	El Dorado County- Community Development Services		
Partner Agency (ies)	Other agencies involved in the project JPA		
Net Yield	Normal Year: 164 AF/y	Wet Year: 226 AF/y	Dry Year: 113 AF/y
Estimated Cost	Capital: Cost not calculated due to conceptual nature of project.		
Unit Cost	NA		
Site Coordinates	Latitude: 38.650739°	Longitude: -121.074167°	
Description			
<p>This a regional project that spans between multiple counties. The South East Connector is a 34 mile expressway that will connect interstate 5 to highway 50. The section that is to be built in the County of El Dorado is planned to be a green project that respects the local environment and water bodies that are in close proximity. The project was designed with the environment in mind, in which the South East Connector will help preserve open space, habitat, and agriculture through a sustainability plan, comprehensive mitigation for environmental impacts, and controlled and limited access along the corridor. The stretch of the project in the County of El Dorado will include relocating utilities, adding drainage facilities, and linear basins along the roadway. With regards to stormwater management the following items will be incorporated: vegetated swales and buffers, detention basins, wet ponds, constructed wetlands, infiltration basins, and other measures. Low impact development (LID) approaches will be incorporated to maintain the site's predevelopment runoff rates and volumes. Examples of such measures include, but are not limited to, sidewalk storage, vegetated swales, landscaped buffers and strips, tree preservation, permeable pavers, and impervious surface reduction and disconnection.</p>			
Component			
Stormwater Management			
Potential Challenges			
Environmental Site Remediation MS4 Compliance			
Conceptual GIS Map of Site			

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Partial map of the South East Connector demonstrating the segment that will be built in the County of El Dorado. Image was obtained from the South East Connector Website (link provided below).



Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		El Dorado County- Community Development Services, other agencies involved in the project JPA
Stage of Development		
<input type="checkbox"/> Conceptual		<input type="checkbox"/> Planning
<input checked="" type="checkbox"/> Design		<input type="checkbox"/> Construction
<input type="checkbox"/> Pre-Design		<input type="checkbox"/> Other
Expected Project Timeline	Begin: 2018, End: 2020	
Project Triggers	NA, project under development	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		

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California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program U.S. Department of Transportation (DOT) - Transportation Investment Generating Economic Recovery (TIGER) Discretionary Grant Program																									
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):																									
■ Primary ■ Opportunity (highlight applicable cells and provide justification below table)																									
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #333; color: white;"> <th style="padding: 5px;">Benefit Category</th> <th style="padding: 5px;">Main Benefit</th> <th style="padding: 5px;">Additional Benefit</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px; vertical-align: top;"> Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i> </td> <td style="padding: 5px; vertical-align: top;"> Increased filtration and/or treatment of runoff </td> <td style="padding: 5px; vertical-align: top;"> Nonpoint source pollution control Reestablished natural water drainage and treatment </td> </tr> <tr> <td style="padding: 5px; vertical-align: top;"> Water Supply <i>through groundwater management and/or runoff capture and use</i> </td> <td style="padding: 5px; vertical-align: top;"> Water supply reliability Conjunctive use </td> <td style="padding: 5px; vertical-align: top;"> Water conservation </td> </tr> <tr> <td style="padding: 5px; vertical-align: top;"> Flood Management </td> <td style="padding: 5px; vertical-align: top;"> Decrease flood risk by reducing runoff rate and/or volume </td> <td style="padding: 5px; vertical-align: top;"> Reduced sanitary sewer overflows </td> </tr> <tr> <td style="padding: 5px; vertical-align: top;"> Environmental </td> <td style="padding: 5px; vertical-align: top;"> Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement </td> <td style="padding: 5px; vertical-align: top;"> Reduced energy use, GHG emission, or provides a carbon sink Reestablishment of the natural hydrograph </td> </tr> <tr> <td style="padding: 5px; vertical-align: top;"> Community </td> <td style="padding: 5px; vertical-align: top;"> Increased urban green space </td> <td style="padding: 5px; vertical-align: top;"> Water temperature improvements </td> </tr> <tr> <td style="padding: 5px; vertical-align: top;"> Community </td> <td style="padding: 5px; vertical-align: top;"> Employment opportunities provided </td> <td style="padding: 5px; vertical-align: top;"> Community involvement </td> </tr> <tr> <td style="padding: 5px; vertical-align: top;"> Community </td> <td style="padding: 5px; vertical-align: top;"> Public education </td> <td style="padding: 5px; vertical-align: top;"> Enhance and/or create recreational and public use areas </td> </tr> </tbody> </table>	Benefit Category	Main Benefit	Additional Benefit	Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control Reestablished natural water drainage and treatment	Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability Conjunctive use	Water conservation	Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows	Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink Reestablishment of the natural hydrograph	Community	Increased urban green space	Water temperature improvements	Community	Employment opportunities provided	Community involvement	Community	Public education	Enhance and/or create recreational and public use areas
Benefit Category	Main Benefit	Additional Benefit																							
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control Reestablished natural water drainage and treatment																							
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability Conjunctive use	Water conservation																							
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows																							
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink Reestablishment of the natural hydrograph																							
Community	Increased urban green space	Water temperature improvements																							
Community	Employment opportunities provided	Community involvement																							
Community	Public education	Enhance and/or create recreational and public use areas																							
The segment of the South East Connector that is to be built in the County of El Dorado, will incorporate a series of green projects that will contribute towards improving the water quality in the area. The green projects will reduce nonpoint source pollution along the roadway, provide areas for increased filtration (ex. Use of wetlands), reduce flood risk, and will reestablish the natural drainage and treatment of stormwater runoff. This is a large project engaging a large group of people in the community that will create a series of job opportunities. This project will also provide a public education component.																									
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain _____																								
Project Benefits a DAC/EDA: ¹	<input type="checkbox"/> Yes, which _____ <input checked="" type="checkbox"/> No _____																								
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>Anticipated</u> _____																								
Contact Person(s):																									

WEST SLOPE STORMWATER RESOURCE PLAN

Appendix B Project Description Forms
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Brendan Ferry, El Dorado County Principal Planner, brendan.ferry@edcgov.us , (530) 573-7905
Key References:
NA
Supplemental Information (e.g., Project Webpage or equivalent):
http://www.connectorjpa.net/project-overview.html

¹DAC = Disadvantaged Communities
EDA = Economically Distressed Area

WEST SLOPE STORMWATER RESOURCE PLAN

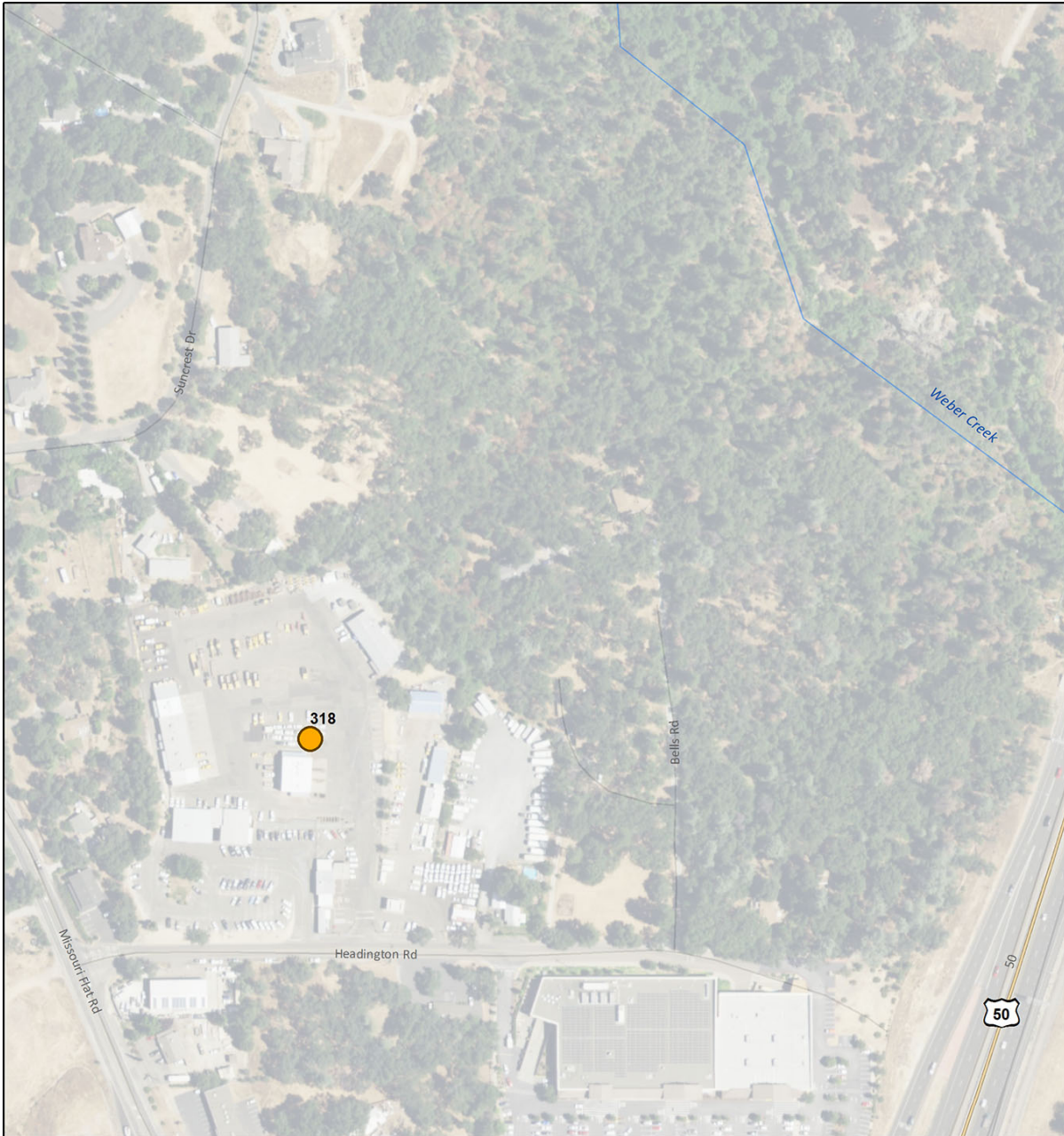
Appendix B Project Description Forms
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B.4.19 318 Headington Yard to Weber Creek Conveyance

Project/Program Name	<i>Headington Yard to Weber Creek Conveyance</i>		
Responsible Agency	El Dorado County Department of Transportation		
Partner Agency (ies)	NA		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: Cost not calculated due to conceptual nature of project.		
Unit Cost	NA		
Site Coordinates (Approximate)	Latitude: 38.715862°	Longitude: -120.841663°	
Description			
<p>The proposed project is a drainage improvement project that is to occur within the facility and downstream from the Headington Yard. This project will ultimately improve the water quality in Weber Creek. The ditches connecting to Weber Creek will be cleaned out. Grass swales will be constructed near Weber Creek if possible to treat and infiltrate stormwater runoff to protect the water quality integrity. Low impact development (LID) approaches will be applied for this project.</p>			
Component			
Stormwater Management			
Potential Challenges			
Project implementation may interfere with daily operations			
Conceptual GIS Map of Site			

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Appendix B Project Description Forms
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ID 318 - Headington Yard to Weber Creek Conveyance

Project Type

- Stormwater Management

Project Limits

- Linear Project Limits
- Project Limits

Project Component:
Stormwater Management
Latitude: 38.715862
Longitude: -120.841663

0 250 500 Feet

Projection: CA SP II NAD83
Background: NAIP (2016)
Prepared: December, 2017

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Appendix B Project Description Forms
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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input checked="" type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		El Dorado County Department of Transportation
Stage of Development		
<input checked="" type="checkbox"/> Conceptual <input type="checkbox"/> Planning <input type="checkbox"/> Pre-Design <input type="checkbox"/> Design <input type="checkbox"/> Construction <input type="checkbox"/> Other		
Expected Project Timeline	Begin: 2019, End: 2019	
Project Triggers	Extreme flood event	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas

WEST SLOPE STORMWATER RESOURCE PLAN

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<p>Under the proposed project the water quality of Weber Creek will be improved such that pollution from the Headington Yard will be reduced. Consequently, this will help improve the local environment and habitats found along Weber Creek. Under the project flood risk will be mitigated with the addition of grass swales and the cleaning of existing ditches. Since swales will be constructed, natural drainage systems will be introduced, and the filtration and treatment of stormwater runoff will result which will contribute towards reducing non-point source pollution. Long Term employment opportunity are expected to occur, this project will also involve the community.</p>	
<p>Project Included in IRWM:</p>	<p><input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, not added to IRWM currently</u></p>
<p>Project Benefits a DAC/EDA:¹</p>	<p><input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No _____</p>
<p>CEQA Compliance:</p>	<p><input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, no environmental documentation is completed yet</u></p>
<p>Contact Person(s):</p>	
<p>Brendan Ferry, El Dorado County Principal Planner, brendan.ferry@edcgov.us, (530) 573-7905</p>	
<p>Key References:</p>	
<p>NA</p>	
<p>Supplemental Information (e.g., Project Webpage or equivalent):</p>	
<p>NA</p>	

¹DAC = Disadvantaged Communities
 EDA = Economically Distressed Area

WEST SLOPE STORMWATER RESOURCE PLAN

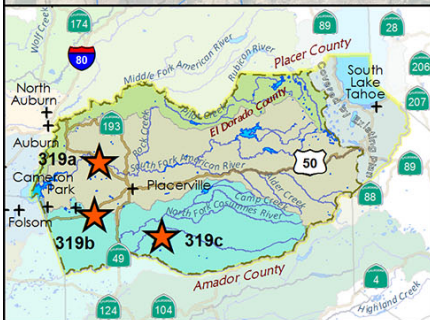
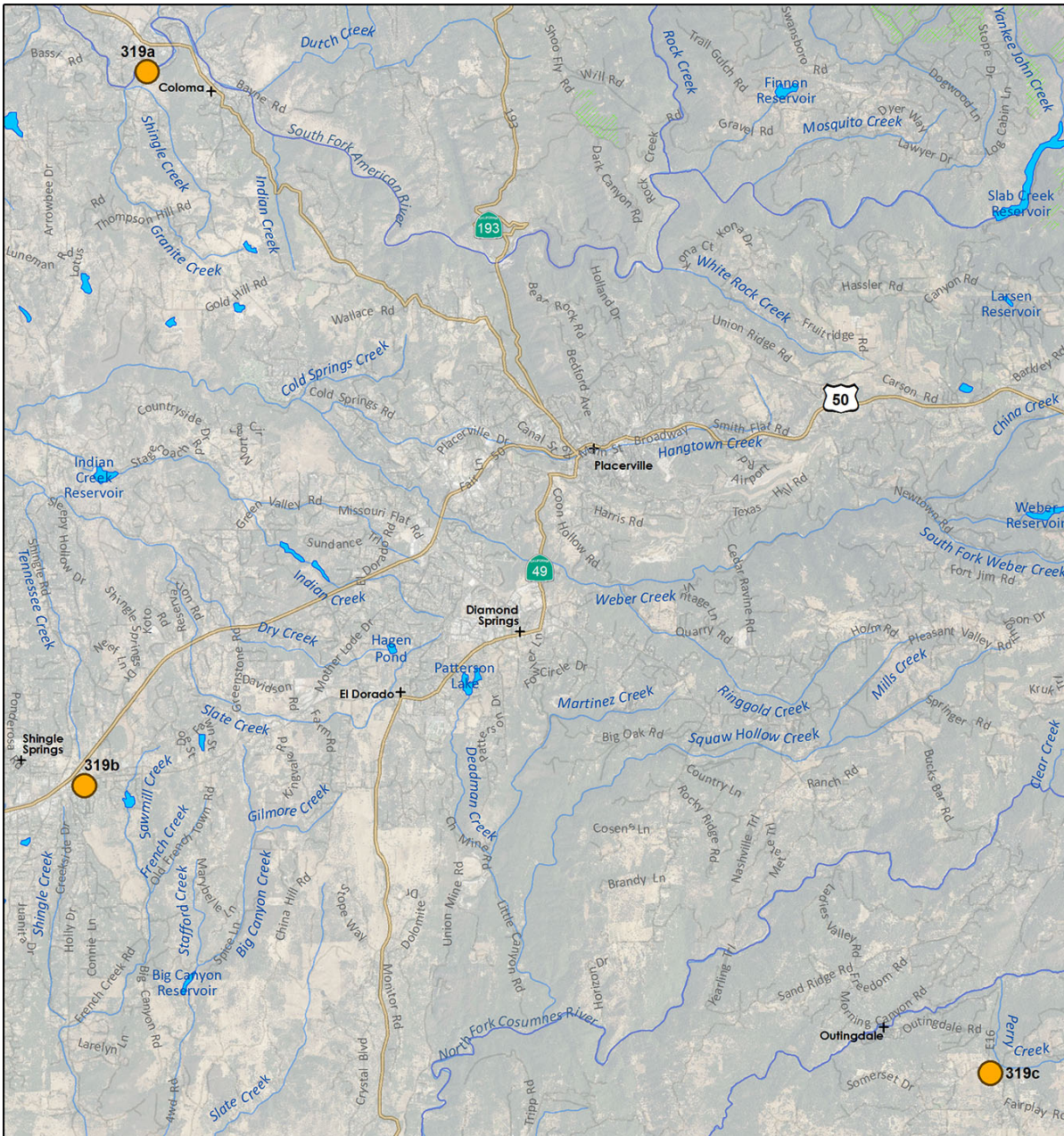
Appendix B Project Description Forms
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B.4.20 319 Countywide Park BMP Retrofit Improvements

Project/Program Name	<i>Countywide Park BMP Retrofit Improvements</i>		
Responsible Agency	El Dorado County Department of Transportation		
Partner Agency (ies)	County Stormwater Program and County Facilities		
Net Yield	Normal Year: 238 AF/y	Wet Year: 328 AF/y	Dry Year: 166 AF/y
Estimated Cost	Capital: Cost not calculated due to conceptual nature of project.		
Unit Cost	NA		
Site Coordinates	Latitude: 1) 38.80357° 2) 38.664801° 3) 38.607838°	Longitude: 1) -120.907684° 2) -120.926911° 3) -120.702972°	
Description			
<p>The Park BMP Retrofit Improvements project will occur County wide but mainly along the American River. The areas that will benefit from this project will include: Henningson Lotus Park, Bradford Park, and Pioneer Park. This project will provide drainage improvements that will contribute towards improving the water quality of the region. The drainage improvements include adding culverts, replacing culverts, adding ditches, cleaning out current ditches, cleaning up the local streams and creeks used for drainage, and adding storm sewers and drains to areas that experience critical flooding. To improve the drainage infrastructure, such as curbs and gutters, the County may be able to aid the community by providing discounts and financial assistance. Under this project bank stabilization will also occur along the American River to prevent erosion, reduce sediment inputs, and reduce nutrient inputs. Regarding water quality, if possible wetlands found in close proximity will be used to treat and infiltrate runoff into the ground. Grass swales will be added to areas that are near urban areas or roads, if possible. This project has the potential for a public outreach component. In addition, this project will use low impact development (LID) approaches. Project will not include much impervious surface removal. It is anticipate that the following will occur: curb cuts and routing water within parking lots or adjacent roads to areas that can infiltrate.</p>			
Component			
Stormwater Management			
Potential Challenges			
Areas county-wide may not be accessible while the project is implemented			
Conceptual GIS Map of Site			

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Appendix B Project Description Forms
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ID 319 - Countywide Park BMP Retrofit Improvements

Project Type

- Stormwater Management

Project Limits

- Linear Project Limits
- Project Limits
- USFS Timber License Area

Project Component:
Stormwater Management

Latitude: 38.80357
Longitude: -120.907684

0 10,000 20,000 Feet

Projection: CA SP II NAD83
Background: NAIP (2016)
Prepared: December, 2017

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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input checked="" type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input checked="" type="checkbox"/> Increase community awareness for sustainable water		El Dorado County- Community Development Services, County of El Dorado Facilities Division, County Stormwater program
Stage of Development		
<input checked="" type="checkbox"/> Conceptual <input type="checkbox"/> Planning <input type="checkbox"/> Pre-Design <input type="checkbox"/> Design <input type="checkbox"/> Construction <input type="checkbox"/> Other		
Expected Project Timeline	Begin: 2019, End: 2030	
Project Triggers	Severe flood event Extreme water quality degradation	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program U.S. Environmental Protection Agency (EPA) - Clean Water State Revolving Fund (CWSRF)		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
<input checked="" type="checkbox"/> Primary <input type="checkbox"/> Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas

WEST SLOPE STORMWATER RESOURCE PLAN

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<p>Under the proposed project the County will improve the water quality of the region, help reduce flood risk, as well as improve and protect the local environment and habitats. Through this project, non-point source pollution will be reduced, stormwater will be treated and infiltrated, the reestablishment of the natural water drainage and treatment of stormwater runoff will occur, and this project will also help reestablish the natural hydrograph of local water bodies. This project has a great opportunity for public outreach in which the County may inform the general public on measures that they can take to participate in stormwater management. This project will involve the community, generate employment opportunities, and will enhance local recreational areas.</p>	
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, not added to IRWM currently</u>
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one <u>County wide project that will affect many communities including DACs and EDAs</u> <input type="checkbox"/> No _____
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, no environmental documentation is completed yet</u>
Contact Person(s):	
Brendan Ferry, El Dorado County Principal Planner, brendan.ferry@edcgov.us , (530) 573-7905	
Key References:	
NA	
Supplemental Information (e.g., Project Webpage or equivalent):	
NA	

¹DAC = Disadvantaged Communities
 EDA = Economically Distressed Area

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Appendix B Project Description Forms
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B.4.21 320 BMP County-Wide Demonstration Projects

Project/Program Name	<i>BMP County Wide Demonstration Projects</i>		
Responsible Agency	El Dorado County- Community Development Services		
Partner Agency (ies)	County Stormwater Program and County Facilities		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: Cost not calculated due to conceptual nature of project.		
Unit Cost	NA		
Site Coordinates	Latitude: 38.727779° (El Dorado County- Community Development Services)	Longitude: -120.829955° (El Dorado County- Community Development Services)	
Description			
<p>Under the proposed project the County would provide public demonstrations on the green projects, LID projects, and stormwater management projects that are to be done County Wide on several County Facilities (ex. Libraries). The following county locations is where these demonstration projects would occur: County Building at 2850 Fairlane, El Dorado Hills Library at 7455 Silva Valley Parkway, and Pollock Pines Library at 6210 Pony Express Trail. The county has identified this as something that needs to be done for contractors, consultants and the general public to learn from and gain exposure to. County facilities will exhibit rainwater harvesting technology and equipment, stormwater management systems that treat and infiltrate stormwater runoff (swales and wetlands), and water conservation strategies.</p>			
Component			
Stormwater Management			
Potential Challenges			
<p>Notifying the community that the demonstration projects are available for the public to see Effectively distributing the right information on the demonstration projects to all of the community in the County</p>			
Conceptual GIS Map of Site			
No available map			
Purpose(s)		Key Stakeholders	
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input checked="" type="checkbox"/> Increase community awareness for sustainable water		El Dorado County- Community Development Services, County Stormwater Program and County Facilities	
Stage of Development			

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<input checked="" type="checkbox"/> Conceptual	<input type="checkbox"/> Planning	<input type="checkbox"/> Pre-Design
<input type="checkbox"/> Design	<input type="checkbox"/> Construction	<input type="checkbox"/> Other
Expected Project Timeline	Begin: 2020, End: 2025	
Project Triggers	Funding	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas
<p>This project has a large community benefit in which it will create opportunities for contractors, consultants, developers, and the general public to learn from the green projects, LID projects, and stormwater management projects that the County is developing. Overall, this project will have much community engagement. The projects exhibited at the County facilities will exhibit rainwater harvesting technology and equipment that will promote water supply reliability at a local scale, stormwater management systems that treat and infiltrate stormwater runoff (swales and wetlands) to improve water quality and reduce pollution, in addition to technology that helps promote water conservation. As a result of the BMPs that will be implemented the local environment will be protected and improved and the county facilities where the projects are to be done will be enhanced.</p>		
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, not added to IRWM currently</u>	

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Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one <u>County-wide project that will benefit several communities including DACs and EDAs</u> <input type="checkbox"/> No _____
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, no environmental documentation is completed yet</u>
Contact Person(s):	
Brendan Ferry, El Dorado County Principal Planner, brendan.ferry@edcgov.us , (530) 573-7905	
Key References:	
NA	

¹DAC = Disadvantaged Communities
EDA = Economically Distressed Area

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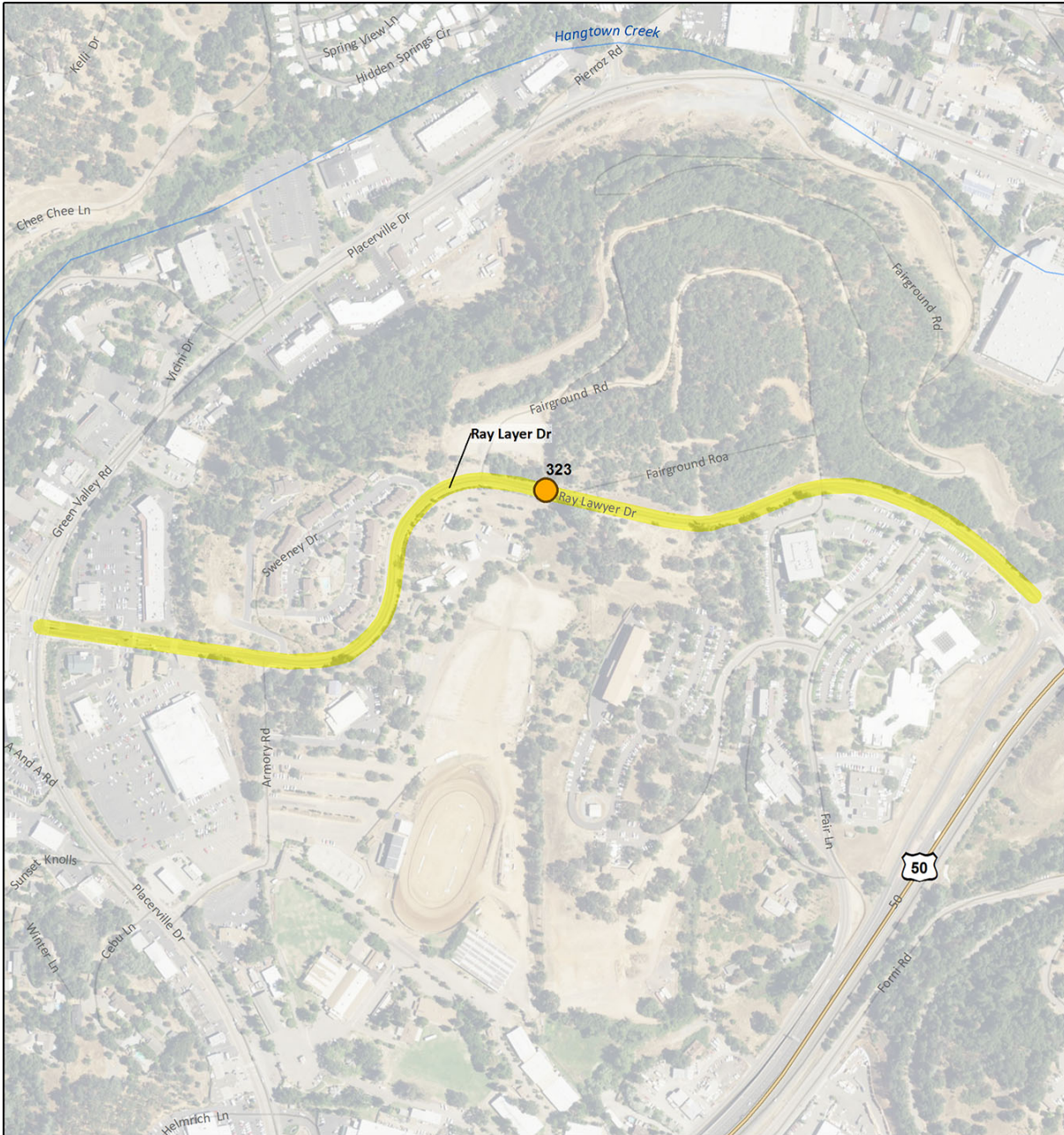
Appendix B Project Description Forms
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B.4.22 323 Urban Roadway Improvement Project-Ray Lawyer Drive, Grind & Overlay Project

Project/Program Name	<i>Urban Roadway Improvement Project-Ray Lawyer Drive, Grind & Overlay Project</i>		
Responsible Agency	City of Placerville		
Partner Agency (ies)	NA		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$62,000		
Unit Cost	NA		
Site Coordinates	Latitude: 38.729603°	Longitude: -120.830839°	
Description			
This project involves a 3" Grind and overlay of travel lanes only, with some roadway section reconstruction in isolated areas. A quote was received from Veerkamp for \$45,199, which reflected \$2.87/SF. Pricing didn't include traffic control or restriping and only includes a portion of the S-Curve. Efficient scope should be revised to include from Armory to Library Driveway Entrance. Additional funds will be needed for the additional area.			
Component			
Stormwater Management			
Potential Challenges			
Residents near project site may not like the noise related to the construction that will result from the project.			
Conceptual GIS Map of Site			

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ID 323 - Urban Roadway Improvement Project - Ray Lawyer Drive

Project Type

- Linear Project Limits
- Stormwater Management
- Project Limits

Project Component:
Stormwater Management

Latitude: 38.729603
Longitude: -120.830839

0 500 1,000 Feet

Projection: CA SP II NAD83
Background: NAIP (2016)
Prepared: December, 2017

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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		City of Placerville
Stage of Development		
<input type="checkbox"/> Conceptual <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Pre-Design <input type="checkbox"/> Design <input type="checkbox"/> Construction <input type="checkbox"/> Other		
Expected Project Timeline	Begin: 2017, End: 2018	
Project Triggers	Funding Road failures	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program U.S. Department of Transportation (DOT) - Transportation Investment Generating Economic Recovery (TIGER) Discretionary Grant Program		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity (highlight applicable cells and provide justification below table)		
Benefit Categories Identified in SWRP Guidelines		
Benefit Category	Main Benefit	Additional Benefit
<i>Water Quality while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control Reestablished natural water drainage and treatment
<i>Water Supply through groundwater management and/or runoff capture and use</i>	Water supply reliability Conjunctive use	Water conservation
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink Reestablishment of the natural hydrograph
Community	Increased urban green space Employment opportunities provided	Water temperature improvements Community involvement
	Public education	Enhance and/or create recreational and public use areas

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This project will improve road conditions which will improve stormwater runoff quality. Consequently, the project will provide short term employment opportunities, will involve the community and will have a public education component.	
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain _____
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one <u>Project found under the 2010-2014 DAC Places as identified by the CA Department of Water Resources</u> <input type="checkbox"/> No
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>CEQA not completed</u> _____
Contact Person(s):	
Steve Herrera, PE, steve@herreraengineering.net , 530-677-1854 Rebecca Neves, City Engineer/PE/QSD/P, rneves@cityofplacerville.org , 530-642-5250	
Key References:	
NA	
Supplemental Information (e.g., Project Webpage or equivalent):	
NA	

¹DAC = Disadvantaged Communities
EDA = Economically Distressed Area

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Appendix B Project Description Forms
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B.4.23 324 Airport Road/Broadway Culvert Storm Drain Improvement

Project/Program Name	<i>Culvert Pipe Replacement at Airport Road and Broadway</i>		
Responsible Agency	City of Placerville		
Partner Agency (ies)	NA		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$69,000		
Unit Cost	\$500/Linear Feet of 4' x 4' Reinforced Concrete Box, \$2,500/Cubic Yards of 6' x 6' x 1' Cast-Place-Headwall, \$4,000/EA of Drain Inlets, \$46/Linear Feet of Curb & Gutter, \$75/Linear Feet of Guard Rail, \$96/Ton of Asphalt Concrete Paving, \$62/Ton of Aggregate Base		
Site Coordinates	Latitude: 38.729792°	Longitude: -120.764422°	
Description			
Project proposes to trench and replace the culvert crossing on Airport Road at Broadway and install new headwalls and railings. All improvements will be constructed within the right-of-way.			
Component			
Stormwater Management			
Potential Challenges			
Locals will have inaccessibility to the site location during the replacement of the culvert. Temporary closure of Airport Road is expected to be necessary during culvert installation.			
Conceptual GIS Map of Site			

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Appendix B Project Description Forms
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ID 324 - Culvert Pipe Replacement at Airport Road and Broadway

Project Type

- Stormwater Management
- Linear Project Limits
- Project Limits

Project Component:
 Stormwater Management

Latitude: 38.729792
Longitude: -120.764422

0 100 200 Feet

Projection: CA SP II NAD83
 Background: NAIP (2016)
 Prepared: December, 2017

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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input checked="" type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		City of Placerville
Stage of Development		
<input checked="" type="checkbox"/> Conceptual <input type="checkbox"/> Planning <input type="checkbox"/> Pre-Design <input type="checkbox"/> Design <input type="checkbox"/> Construction <input type="checkbox"/> Other		
Expected Project Timeline	Begin 2020, End in 2021; a 2 year project	
Project Triggers	Culvert Failure Extreme Flood Event	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program U.S. Department of Transportation (DOT) - Transportation Investment Generating Economic Recovery (TIGER) Discretionary Grant Program Drought Grant Funding		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas

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Replacing the culvert will improve local conditions which will translate to reducing non-point source pollution, reestablishing the natural water drainage and treatment of stormwater, will reduce the flood risk at the crossroads, will generate employment opportunities, and involve the community.	
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>Project is not added into IRWM currently</u> _____
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one <u>Project found under the 2010-2014 DAC Places as identified by the CA Department of Water Resources</u> <input type="checkbox"/> No _____
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>CEQA has not been completed</u> _____
Contact Person(s):	
Steve Herrera, PE, steve@herreraengineering.net , 530-677-1854 Rebecca Neves, City Engineer/PE/QSD/P, rneves@cityofplacerville.org , 530-642-5250 Pierre Rivas, Director Development Services Department, privas@cityofplacerville.org , 530-642-5252	
Key References:	
NA	
Supplemental Information (e.g., Project Webpage or equivalent):	
NA	

¹DAC = Disadvantaged Communities
 EDA = Economically Distressed Area

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B.4.24 326 Sewer Relocation-Clay to Locust

Project/Program Name	<i>Sewer Relocation-Clay to Locust</i>		
Responsible Agency	City of Placerville		
Partner Agency (ies)	Caltrans		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$120,000		
Unit Cost	NA		
Site Coordinates	Latitude: 38.732249°	Longitude: -120.78947°	
Description			
<p>This project involves the construction of a new park and ride facility at the existing City-owned dirt lot at Locust/Mosquito along with frontage improvements and roadway improvements on Mosquito Road from Locust to Clay. Project is funded through an FTA Grant and STBGP Exchange Funds. This project design is underway, utility coordination with PG&E and AT&T is in progress.</p>			
Component			
Stormwater Management			
Potential Challenges			
Residents near project site may not like the noise related to the construction that will result from the project.			
Conceptual GIS Map of Site			

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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		City of Placerville, Caltrans
Stage of Development		
<input type="checkbox"/> Conceptual <input type="checkbox"/> Planning <input type="checkbox"/> Pre-Design <input checked="" type="checkbox"/> Design <input type="checkbox"/> Construction <input type="checkbox"/> Other		
Expected Project Timeline	Begin: 2017, End: 2018	
Project Triggers	Road failure Sewer failure	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas

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This project involves relocating the sewer from Clay St to Locust Ave. in the City of Placerville. In undergoing this project, short term employment opportunities will be created, sanitary sewer overflows will be prevented, the community will be involved and the project will provide a public education component.	
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain _____
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one_ <u>Project found under the 2010-2014 DAC Places as identified by the CA Department of Water Resources</u> _____ <input type="checkbox"/> No _____
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>CEQA not completed</u> _____
Contact Person(s):	
Steve Herrera, PE, steve@herreraengineering.net , 530-677-1854 Rebecca Neves, City Engineer/PE/QSD/P, rneves@cityofplacerville.org , 530-642-5250	
Key References:	
NA	
Supplemental Information (e.g., Project Webpage or equivalent):	
NA	

¹DAC = Disadvantaged Communities
 EDA = Economically Distressed Area

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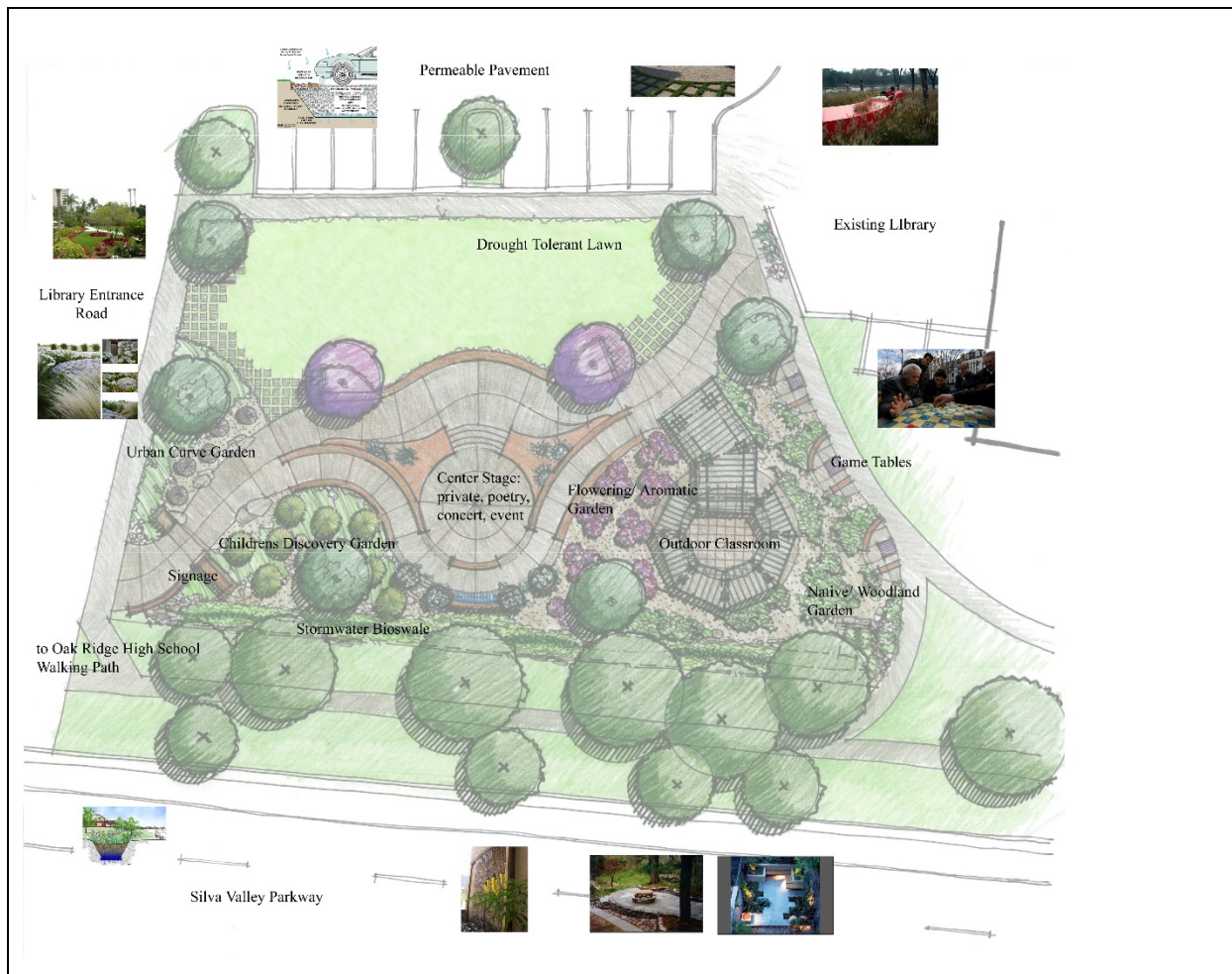
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B.4.25 327 El Dorado Hills Library Water Conservation Project

Project/Program Name	<i>El Dorado Hills Library Water Conservation Project</i>		
Responsible Agency	El Dorado County & Georgetown Divide Resource Conservation Districts		
Partner Agency (ies)	El Dorado County- Community Development Services		
Net Yield	Normal Year: 13 AF/y	Wet Year: 17 AF/y	Dry Year: 9 AF/y
Estimated Cost	Capital: \$181,080		
Unit Cost	NA		
Site Coordinates	Latitude: 38.672316°	Longitude: -121.065017°	
Description			
<p>The El Dorado Hills Public Library has a vacant, county owned, lot immediate to the main library building. The proposed Water Conservation Demonstration Garden is based on a modern understanding of a multi-functional, climatically-adopted, landscape. Features used in the design include drought tolerant landscaping plants, water conservation and water use reduction practices, irrigation efficiency, stormwater capture and pollution prevention functionality. Each area will have its own theme (native, streetscape, lawn, flowering, etc.) each having its own variable water demand/ hydro zone design. This approach will broaden the scope of how these landscaping techniques can be used by a variety of residential or commercial developments.</p>			
Component			
Stormwater Management			
Potential Challenges			
Funding			
Conceptual GIS Map of Site			

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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input checked="" type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input checked="" type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		El Dorado County & Georgetown Divide Resource Conservation Districts, and El Dorado County- Community Development Services
Stage of Development		
<input type="checkbox"/> Conceptual <input type="checkbox"/> Design		<input type="checkbox"/> Planning <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Pre-Design <input type="checkbox"/> Other
Expected Project Timeline	Begin: 2019, End: 2021	
Project Triggers	Under current implementation	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		

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California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4): Water Quality, Flood Management, Community		
■ Primary ■ Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability Conjunctive use	Water conservation
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas
The goals of the program are:		
1) Establish a demonstration garden that exhibits the following: a) Drought tolerant landscaping, b) Water conservation and irrigation efficiency, c) Stormwater management and pollution prevention, d) Soil conservation and enhancement, e) To enhance the outdoor space for community use with an attractive landscaped area; 2) Increase access and use of public space. 3) To create an area that can be used as a model for drought tolerant landscaping and water conservation at residential and commercial developments.		
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>Project has not been presented to the CABY ORWMP working group.</u>	
Project Benefits a DAC/EDA: ¹	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No _____	
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain _____	

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Contact Person(s):
Mark Egbert, District Manager. El Dorado County RCD 530-295-5630. Mark.Egbert@ca.usda.gov
Key References:
EDC Stormwater Garden Proposal
Supplemental Information (e.g., Project Webpage or equivalent):

¹DAC = Disadvantaged Communities
EDA = Economically Distressed Area

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B.4.26 328 Our Water Our World - Outreach Program

Project/Program Name	<i>Our Water Our World - Outreach Program</i>		
Responsible Agency	El Dorado County- Community Development Services		
Partner Agency (ies)	Local Businesses		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: Cost not calculated due to conceptual nature of project.		
Unit Cost	NA		
Site Coordinates	Latitude: 38.727779° (El Dorado County- Community Development Services)	Longitude: -120.829955° (El Dorado County- Community Development Services)	
Description			
<p>The proposed project is a stormwater outreach project that is part of Our Water Our World. This program aims at providing information to the community on the pesticides found at retail locations such as Home Depot, and then informing them on safer alternative pesticides and methods that can be used instead. In the long run, this project will help reduce non-point source pollution due to increased awareness in the community and will help improve local environmental conditions. This project will occur County-wide.</p>			
Component			
Stormwater Management			
Potential Challenges			
Information distribution to the community			
Conceptual GIS Map of Site			
No available map			
Purpose(s)		Key Stakeholders	
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		El Dorado County- Community Development Services, local businesses	
Stage of Development			
<input type="checkbox"/> Conceptual <input type="checkbox"/> Design		<input type="checkbox"/> Planning <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Pre-Design <input type="checkbox"/> Other	

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Expected Project Timeline	Begin: 2018, End: 2030	
Project Triggers	Large amount of public interest and volunteers willing to help	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Clean Water State Revolving Fund Program (CWSRF)		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas
<p>Under the proposed public outreach project, the project has the ability to help reduce nonpoint source pollution since the project will help educate the community in ways that they can use alternative and safer methods to get rid of pests that does not involve using pesticides. Overall, this project will create much public engagement and will create volunteer opportunities.</p>		
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, not added to IRWM currently</u>	
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one <u>Program will benefit several communities, including DACs and EDAs</u> <input type="checkbox"/> No _____	

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CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, no environmental documentation is completed yet</u>
Contact Person(s):	
Brendan Ferry, El Dorado County Principal Planner, brendan.ferry@edcgov.us , (530) 573-7905	
Key References:	
NA	
Supplemental Information (e.g., Project Webpage or equivalent):	
http://ourwaterourworld.org/ http://ourwaterourworld.org/Resources/Participating-Agencies	

¹DAC = Disadvantaged Communities
 EDA = Economically Distressed Area

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B.4.27 329 Trash Amendments TMDL Implementation

Project/Program Name	<i>Trash Amendments TMDL Implementation</i>		
Responsible Agency	El Dorado County- Community Development Services		
Partner Agency (ies)	Caltrans, City of Placerville		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: Cost not calculated due to conceptual nature of project.		
Unit Cost	NA		
Site Coordinates	Latitude: 38.727779° (Long Range Planning)	Longitude: -120.829955° (Long Range Planning)	
Description			
<p>The Trash Amendments are to be implemented county wide. They will be implemented in the county by developing an implementation plan for the Western Slope of El Dorado County. Under this plan, plans will be developed to prevent the amount of trash that is observed and makes its way into local water bodies. To reduce the amount of trash that is observed, the goal is to purchase additional Street Sweepers, install full trash capture devices or equivalent, identify the critical areas county wide that need to be maintained, and install detention/retention systems to prevent trash from flowing into the local water systems. The proposed project will ultimately improve water quality and meet MS4 compliance.</p> <p>For Priority Land Use Areas, the County will aim to be at 0% trash within 10 years. Organic debris and sediment will be reduced as well but unknown as to how much.</p>			
Component			
Stormwater Management			
Potential Challenges			
Wide distribution of Trash Amendment Projects County-Wide			
Conceptual GIS Map of Site			
No available map			
Purpose(s)		Key Stakeholders	
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input checked="" type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		El Dorado County- Community Development Services, Caltrans, City of Placerville	

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Stage of Development		
<input checked="" type="checkbox"/> Conceptual	<input type="checkbox"/> Planning	<input type="checkbox"/> Pre-Design
<input type="checkbox"/> Design	<input type="checkbox"/> Construction	<input checked="" type="checkbox"/> Other
Expected Project Timeline	<i>Begin: 2018, End: 2030</i>	
Project Triggers	<i>Statewide Implementation as set forth by the State Water Board</i>	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Clean Water State Revolving Fund Program (CWSRF)		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
<input checked="" type="checkbox"/> Primary <input type="checkbox"/> Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas
<p>Under this project the water quality countywide will be improved since the amount of trash that is introduced into the water bodies will be significantly reduced. Implementing the Trash Amendments will provide an opportunity for the community to be engaged. This program will also allow an opportunity for educating the public on trash management, will enhance recreational areas, and will generate employment and volunteer opportunities.</p>		

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Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, not added to IRWM currently</u>
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one <u>County-wide program that will benefit DACs and EDAs</u> <input type="checkbox"/> No _____
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, no environmental documentation is completed yet</u>
Contact Person(s):	
Brendan Ferry, El Dorado County Principal Planner, brendan.ferry@edcgov.us , (530) 573-7905	
Key References:	
NA	
Supplemental Information (e.g., Project Webpage or equivalent):	
https://www.waterboards.ca.gov/water_issues/programs/trash_control/documentation.shtml	

¹DAC = Disadvantaged Communities
 EDA = Economically Distressed Area

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B.4.28 330 Countywide Water Quality Awareness Campaign

Project/Program Name	<i>Countywide Water Quality Awareness Campaign</i>		
Responsible Agency	El Dorado County- Community Development Services		
Partner Agency (ies)	City of Placerville, Caltrans		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$80,000.00		
Unit Cost	NA		
Site Coordinates	Latitude: 38.727779° (Long Range Planning)	Longitude: -120.829955° (Long Range Planning)	
Description			
<p>The proposed project is a county wide effort aimed at providing water quality awareness to the community of El Dorado County. The Water Quality Awareness Campaign will tie in closely with the goals that the County of El Dorado has proposed to implement under the Trash Amendments and other water quality pollutants of concern. Ultimately, this campaign will educate the public on how they can contribute towards improving and preserving satisfactory water quality standards in the County of El Dorado.</p>			
Component			
Stormwater Management			
Potential Challenges			
Public Outreach			
Conceptual GIS Map of Site			
No available map			
Purpose(s)		Key Stakeholders	
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input checked="" type="checkbox"/> Increase community awareness for sustainable water		El Dorado County- Community Development Services, City of Placerville, Caltrans	
Stage of Development			
<input checked="" type="checkbox"/> Conceptual <input type="checkbox"/> Design		<input type="checkbox"/> Planning <input type="checkbox"/> Construction <input type="checkbox"/> Pre-Design <input checked="" type="checkbox"/> Other	
Expected Project Timeline	Begin: 2019, End: 2030		

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Project Triggers	Large amount of public interest and volunteers willing to help	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Clean Water State Revolving Fund Program (CWSRF)		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas
<p>Under the proposed Water Quality Awareness Campaign this project will have strong community involvement in which the community will be educated on ways to prevent and maintain satisfactory water quality standards throughout the County. In educating the community, this will ultimately contribute towards reducing nonpoint source pollution, and consequently helping improve the local environment and habitats. This program will also generate employment and volunteer opportunities.</p>		
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, not added to IRWM currently</u>	
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one <u>County-wide program that will benefit DACs and EDAs</u> <input type="checkbox"/> <input type="checkbox"/> No _____	

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CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, no environmental documentation is completed yet</u>
Contact Person(s):	
Brendan Ferry, El Dorado County Principal Planner, brendan.ferry@edcgov.us , (530) 573-7905	
Key References:	
NA	
Supplemental Information (e.g., Project Webpage or equivalent):	
https://app.box.com/s/31742182im89xevruks0	

¹DAC = Disadvantaged Communities
 EDA = Economically Distressed Area

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B.4.29 331 Countywide Stormwater Asset Management Program

Project/Program Name	<i>Countywide Stormwater Asset Management Program</i>		
Responsible Agency	El Dorado County- Community Development Services		
Partner Agency (ies)	City of Placerville, Caltrans		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$2,200,000.00		
Unit Cost	NA		
Site Coordinates	Latitude: 38.727779° (El Dorado County- Community Development Services)	Longitude: -120.829955° (El Dorado County- Community Development Services)	
Description			
<p>The Asset Management Program that is proposed was developed to create a digital system that will have all of the road and drainage infrastructure stored and mapped out for the Western Slope of El Dorado County. For instance, the digitized system will contain information regarding the location of where all of the outfalls are located on the Western Slope of the County. The proposed program will be a great tool that the County will have access to, to better manage and coordinate stormwater management efforts. This program will help address water quality problems and help meet MS4 compliance. This program is of much need in the county since all of the information that the County has is currently found stored in different locations. With the proposed program, the County will have all of the information in one place and will help the County towards operating and maintaining the water and stormwater infrastructure. This effort will include the documentation of infrastructure maintenance and will aid with the dispatch of maintenance crews to schedule and perform maintenance.</p>			
Component			
Stormwater Management			
Potential Challenges			
Data and information retrieval			
Conceptual GIS Map of Site			
No available map			
Purpose(s)		Key Stakeholders	
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input checked="" type="checkbox"/> Improve local water supply reliability <input checked="" type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		El Dorado County- Community Development Services, City of Placerville, Caltrans	
Stage of Development			

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<input checked="" type="checkbox"/> Conceptual <input type="checkbox"/> Planning <input type="checkbox"/> Pre-Design <input type="checkbox"/> Design <input type="checkbox"/> Construction <input type="checkbox"/> Other		
Expected Project Timeline	Begin: 2019, End: 2020	
Project Triggers	Funding	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Clean Water State Revolving Fund Program (CWSRF)		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas
<p>With the proposed program, the water quality of the Western portion of the County will be improved since the County will have a digitized system to better manage its water infrastructure. The digitized system that is proposed will provide insight to the County which will help them better manage their water resources. With the creation of this program there will also be employment opportunities available, as people will be sought to create the digitized system described and another person could be hired to manage/run the Asset Management Program. This program has the potential to educate the public and involve the community.</p>		

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Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, not added to IRWM currently</u>
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one <u>County-wide program that will benefit DACs and EDAs</u> <input type="checkbox"/> No _____
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, no environmental documentation is completed yet</u>
Contact Person(s):	
Brendan Ferry, El Dorado County Principal Planner, brendan.ferry@edcgov.us , (530) 573-7905	
Key References:	
NA	
Supplemental Information (e.g., Project Webpage or equivalent):	
NA	

¹DAC = Disadvantaged Communities
 EDA = Economically Distressed Area

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B.4.30 333 Splash in the Class – Outreach Program

Project/Program Name	<i>Splash in the Class - Outreach Program</i>		
Responsible Agency	El Dorado County- Community Development Services		
Partner Agency (ies)	City of Placerville, EDCWA		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$20,000/yr		
Unit Cost	NA		
Site Coordinates	Latitude: 38.727779° (Long Range Planning)	Longitude: -120.829955° (Long Range Planning)	
Description			
<p>The El Dorado County Splash in the Class (Splash) program is a non-profit organization dedicated to helping local children understand and value their natural world through science, education and outdoor exploration. Splash aims to create a generation of children who value their natural world and take an active role in its protection. Splash involves teaching students, providing students with activities, and presentations on a variety of topics that include stormwater management, littering, contamination, hydrology, watershed management, and ecosystems.</p> <p>Currently, the Splash program is specifically designed for Grades 4 and 5 and participation is free thanks to sponsorship from El Dorado County Stormwater Program. The Splash program seeks additional funding to expand the current Splash program to reach several more schools throughout El Dorado County and develop programs for all grade levels K-12.</p>			
Component			
Stormwater Management			
Potential Challenges			
Funding Public Outreach			
Conceptual GIS Map of Site			
No available map			
Purpose(s)		Key Stakeholders	
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input checked="" type="checkbox"/> Increase community awareness for sustainable water		El Dorado County- Community Development Services, school system	
Stage of Development			

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<input checked="" type="checkbox"/> Conceptual	<input type="checkbox"/> Planning	<input type="checkbox"/> Pre-Design
<input type="checkbox"/> Design	<input type="checkbox"/> Construction	<input checked="" type="checkbox"/> Other
Expected Project Timeline	Begin: 2018, End: 2030	
Project Triggers	Large amount of public interest and volunteers willing to help	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Clean Water State Revolving Fund Program (CWSRF)		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas
<p>With the proposed project, expanding the Splash Program in the County of El Dorado would provide several benefits, the most important being that it would engage the community when educating a group of students on array of subject matter. The program coordinators could ask scientists and professionals (local university grad students, engineers, County Officials, Agency leads) to make classrooms visits and present a topic. In addition, scientists and professionals could provide educational tours to students that would engage them to learn and be interested on topics that would help the environment and relate to stormwater management. Exposing students to an array of topics may help reduce sources of pollution that may impact local water bodies. Some employment opportunities will exist by implementing the program but it will be mainly volunteer base.</p>		

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Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, not added to IRWM currently</u>
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one <u>County-wide program that will benefit DACs and EDAs</u> <input type="checkbox"/> No _____
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, no environmental documentation is completed yet</u>
Contact Person(s):	
Brendan Ferry, El Dorado County Principal Planner, brendan.ferry@edcgov.us , (530) 573-7905	
Key References:	
NA	
Supplemental Information (e.g., Project Webpage or equivalent):	
NA	

¹DAC = Disadvantaged Communities
 EDA = Economically Distressed Area

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B.4.31 334 County Wide Quality Standards Improvement Project

Project/Program Name	<i>County Water Quality Standards Improvement Project</i>		
Responsible Agency	El Dorado County- Community Development Services		
Partner Agency (ies)	NA		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: Cost not calculated due to conceptual nature of project.		
Unit Cost	NA		
Site Coordinates	Latitude: 38.727779° (Long Range Planning)	Longitude: -120.829955° (Long Range Planning)	
Description			
Under the proposed project, the County will create internal protocols for how items and projects are managed throughout the county. This would be a great in-house tool for the county to have access to and would show the Water Board that they have internal protocols for procedures and projects related to stormwater management and water quality. Establishing the County Water Quality Standards Improvement Project will help with the development and construction of projects in addition to the maintenance of projects related to stormwater and water quality.			
Component			
Stormwater Management			
Potential Challenges			
Funding			
Conceptual GIS Map of Site			
No available map			
Purpose(s)		Key Stakeholders	
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input checked="" type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		El Dorado County- Community Development Services	
Stage of Development			
<input checked="" type="checkbox"/> Conceptual <input type="checkbox"/> Design		<input type="checkbox"/> Planning <input type="checkbox"/> Construction <input type="checkbox"/> Pre-Design <input type="checkbox"/> Other	
Expected Project Timeline	Begin: 2019, End: 2020		

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Project Triggers	Funding	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program U.S. Environmental Protection Agency (EPA) - Clean Water State Revolving Fund (CWSRF)		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas
<p>The proposed project will include a series of internal protocols aimed at dealing with stormwater management and water quality projects throughout the County, especially for the West Slope. The series of developed protocols will ultimately help improve water quality. This project has the potential to create short term employment opportunities, to educate the public, and involve the community.</p>		
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, not added to IRWM currently</u>	
Project Benefits a DAC/EDAL ¹	<input checked="" type="checkbox"/> Yes, which one <u>County-wide project that will benefit DACs and EDAs</u> <input type="checkbox"/> No _____	
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, no environmental documentation is completed yet</u>	

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Contact Person(s):
Brendan Ferry, El Dorado County Principal Planner, brendan.ferry@edcgov.us , (530) 573-7905
Key References:
NA
Supplemental Information (e.g., Project Webpage or equivalent):
NA

¹DAC = Disadvantaged Communities
EDA = Economically Distressed Area

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B.4.32 335 West Slope Watershed and Pollutant Generation Study

Project/Program Name	<i>West Slope Watershed and Pollutant Generation Study</i>		
Responsible Agency	El Dorado County- Community Development Services		
Partner Agency (ies)	NA		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$300,000.00		
Unit Cost	NA		
Site Coordinates	Latitude: 38.727779° (Long Range Planning)	Longitude: -120.829955° (Long Range Planning)	
Description			
<p>Stormwater from urban runoff is one of the leading causes of pollution in creeks, rivers and lakes. Stormwater is a resource and is part of the hydrologic cycle, along with potable water, so it is imperative to keep it as clean as possible. Identifying the sources of stormwater pollution and keeping pollution away from natural water bodies is the best and most economical strategy to keep stormwater clean and protect vital water resources.</p> <p>This project entails doing a watershed and pollutant generation study for the Western Slope of El Dorado County. The analysis that would be completed would be able to identify areas that are critical and would need to be mitigated. This study may also be used to identify locations of where pollutants may result from based on land use.</p> <p>The Watershed Analysis will include:</p> <p>Dividing the watershed into basins and sub-basins based on geographic and jurisdictional lines; maps will be produced to illustrate the boundaries.</p> <p>Describing existing watershed conditions to establish a watershed baseline. The description will include: land use, major water features, water quality, water usage, water supply, designated beneficial uses, point and non-point sources of water pollution, population, infrastructure, vegetation, habitat and wildlife.</p> <p>Describing watershed trends for which sufficient historical information is available. Trends include growth and land use projections and other similar information.</p> <p>Identifying issues of concern, gaps in knowledge, and potential watershed management objectives based on the above analyses.</p> <p>Producing a draft report to be reviewed and made available to stakeholders for comment.</p> <p>Redrafting the report addressing stakeholder comments to the extent feasible and include additional information, maps, and photos where appropriate to refine the report.</p> <p>Ultimately, this study will be able to provide the following items to the County: small watershed maps, pollution generation maps, outfall location maps, and the identification of watersheds with high pollution concentrations.</p>			
Component			
Stormwater Management			
Potential Challenges			
Data and information retrieval			
Conceptual GIS Map of Site			
No available map			

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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input checked="" type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		El Dorado County- Community Development Services
Stage of Development		
<input checked="" type="checkbox"/> Conceptual <input type="checkbox"/> Planning <input type="checkbox"/> Pre-Design <input type="checkbox"/> Design <input type="checkbox"/> Construction <input type="checkbox"/> Other		
Expected Project Timeline	Begin: 2019, End: 2029	
Project Triggers	Funding	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program U.S. Environmental Protection Agency (EPA) - Clean Water State Revolving Fund (CWSRF) U.S. Environmental Protection Agency (EPA)- Nonpoint Source Implementation Grants (319 Program)		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas

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The proposed study will help improve water quality and will ultimately help improve the local environment. This will be a large study that will be undertaken and so it will provide an opportunity for the community to get learn from it, become involved, and learn the significance it has. This study will also create employment opportunities.	
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, not added to IRWM currently</u>
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one <u>County-wide study that will benefit DACs and EDAs</u> <input type="checkbox"/> No _____
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>Conceptual project</u>
Contact Person(s):	
Brendan Ferry, El Dorado County Principal Planner, brendan.ferry@edcgov.us , (530) 573-7905	
Key References:	
NA	
Supplemental Information (e.g., Project Webpage or equivalent):	
NA	

¹DAC = Disadvantaged Communities
 EDA = Economically Distressed Area

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B.4.33 336 West Slope BMP Manual

Project/Program Name	<i>West Slope BMP Manual</i>		
Responsible Agency	El Dorado County- Community Development Services		
Partner Agency (ies)	NA		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$50,000 to \$75,000		
Unit Cost	NA		
Site Coordinates (Approximate)	Latitude: 38.727779° (Long Range Planning)	Longitude: -120.829955° (Long Range Planning)	
Description			
<p>The following describes why the BMP manual that contains LID practices is necessary:</p> <p>According to the SWRCB, LID is "... a sustainable practice that benefits water supply and contributes to water quality protection. Unlike traditional storm water management, which collects and conveys storm water runoff through storm drains, pipes, or other conveyances to a centralized storm water facility, LID takes a different approach by using site design and storm water management to maintain the site's pre-development runoff rates and volumes. The goal of LID is to mimic a site's predevelopment hydrology by using design techniques that infiltrate, filter, store, evaporate, and detain runoff close to the source of rainfall."</p> <p>This project involves creating a BMP (Best Management Practices) Manual for the Western Slope of El Dorado County.</p> <p>When implemented correctly on a site, the BMP Manual will provide two primary benefits</p> <p>The post-construction site hydrology will more closely mimic the pre-development hydrology, thus reducing downstream erosion that may occur due to increased runoff from impervious surfaces; and</p> <p>Pollutants in runoff from the site will be significantly reduced to meet MS4 compliance</p> <p>The BMP Manual will ensure that a properly and effectively designed site will incorporate two forms of BMP: LID Principles and LID BMPs. LID principles will focus on planning and designing a site in a manner that minimizes the causes, or drives, of project impacts (site design). LID BMPs will focus on implementation to help mitigate any impacts that are otherwise unavoidable. The selected BMPs will include maximizing direct or incidental infiltration and evapotranspiration, and using vegetation and other biological process to filter and absorb pollutants. For each BMP, the maximum tributary drainage area, siting consideration, design procedures, and maintenance requirements will be included. The BMP Manual will include detailed guidance for infiltration testing, and basin considerations.</p> <p>The BMP Manual will be used in the developing urban areas of El Dorado County where local officials, contractors and developers will have access to it and see an array of ecologically based stormwater treatment technologies that they may use on proposed projects. By following the BMP Manual, the community can be assured that water quality will be protected to the maximum extent practicable.</p>			
Component			
Stormwater Management			
Potential Challenges			
Funding			
Conceptual GIS Map of Site			

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No available map		
Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input checked="" type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input checked="" type="checkbox"/> Increase community awareness for sustainable water		El Dorado County- Community Development Services
Stage of Development		
<input checked="" type="checkbox"/> Conceptual <input type="checkbox"/> Planning <input type="checkbox"/> Pre-Design <input type="checkbox"/> Design <input type="checkbox"/> Construction <input type="checkbox"/> Other		
Expected Project Timeline	Begin: 2019, End: 2019	
Project Triggers	Funding	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program U.S. Environmental Protection Agency (EPA) - Clean Water State Revolving Fund (CWSRF)		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas

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<p>The BMP Manual will include several of ecologically based stormwater treatment technologies for various people to reference. The items that will be contained in the BMP manual will ultimately help improve water quality in the County. Creating the BMP Manual will create employment opportunities.</p>	
<p>Project Included in IRWM:</p>	<p><input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, not added to IRWM currently</u></p>
<p>Project Benefits a DAC/EDA:¹</p>	<p><input checked="" type="checkbox"/> Yes, which one <u>Manual will benefit several communities, including DACs and EDAs</u> <input type="checkbox"/> No _____</p>
<p>CEQA Compliance:</p>	<p><input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, no environmental documentation is completed yet</u></p>
<p>Contact Person(s):</p>	
<p>Brendan Ferry, El Dorado County Principal Planner, brendan.ferry@edcgov.us, (530) 573-7905</p>	
<p>Key References:</p>	
<p>NA</p>	
<p>Supplemental Information (e.g., Project Webpage or equivalent):</p>	
<p>NA</p>	

¹DAC = Disadvantaged Communities
 EDA = Economically Distressed Area

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B.4.34 337 Outingdale Stormwater Management Study/Pre-Design

Project/Program Name	<i>Outingdale Stormwater Management Study/Pre-Design</i>		
Responsible Agency	El Dorado County Water Agency and El Dorado County- Community Development Services		
Partner Agency (ies)	El Dorado Irrigation District, El Dorado County Department of Environmental Management, American River Conservancy		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$50,000		
Unit Cost	NA		
Site Coordinates	Latitude: 38.615906°	Longitude: -120.73249°	
Description			
<p>Outingdale is a small, private community located adjacent to the Middle Fork Cosumnes River. The community is identified as part of the DWR DAC Block Group. Because Outingdale is located adjacent to an affluent winery area, it currently is not identified in the DWR disadvantaged community group. However, it will be separately documented in the upcoming Mountain Counties DAC Study.</p> <p>Outingdale is comprised of smaller lots located on a slope that drains directly to the river. The community was originally designed as a resort in the 1920/30's. Some of the septic systems have failed over time, leading to human waste draining directly to the river, exacerbated by storm water runoff. Marijuana cultivation is also present, with accompanying irrigation drainage. Finally, the community roads were graded without the benefit of engineered drainage. Erosion occurs with high runoff velocities. Sediment and road runoff drain directly to the river. The river is the source of drinking water for the community.</p> <p>This project proposes an engineering study/pre-design as a first step, to quantitatively define the storm water runoff management challenges, conduct outreach, and develop solutions, including accompanying cost estimates and potential funding sources.</p> <p>Potential scope of work for study</p> <p>To advise local officials of stormwater management issues by preparing Outingdale Stormwater Management Study/Pre-Design for public distribution</p> <p>To develop a summary of stormwater regulations and programs, including program elements, goals, policies, costs, future program visions, and existing outreach, education and technical assistance programs</p> <p>To identify opportunities for improvement in existing stormwater management programs through analysis of program redundancies and overlaps, consistency, conflicting goals or processes, gaps and barriers to implementation, timing/sequencing and opportunities for increased efficiency and effectiveness</p> <p>To develop a communication plan to provide concise information about Outingdale stormwater management issues and the study to interested stakeholders, and to develop a training program to promote stormwater awareness among implementing agencies, stakeholders, and citizens.</p> <p>To develop stormwater management solutions that include proper selection, design, construction, inspection and maintenance of structural and non-structural best management practice.</p> <p>To develop a cost-benefit analysis that considers the cost of implementing best management practices as well as environmental, social, and public health outcomes of alternative management approaches</p> <p>To develop a finance plan to establish study priorities, identify funding options, evaluate funding options and develop a plan to pursue the most promising funding sources.</p>			
Component			
Stormwater Management			

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Potential Challenges
Outingdale has a community association, but is not a community services district. It lacks resources to engage professional resources to solve community challenges. Outreach will be required to work with residents for effective solutions.
Conceptual GIS Map of Site




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
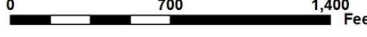
ID 337 - Outingdale Stormwater Management Study/Pre-Design

Project Type

-  Stormwater Management
-  Linear Project Limits
-  Project Limits

Project Component:
Stormwater Management

Latitude: 38.615906
Longitude: -120.73249

Projection: CA SP II NAD83
Background: NAIP (2016)
Prepared: December, 2017
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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input checked="" type="checkbox"/> Improve local water supply reliability <input checked="" type="checkbox"/> Implement & monitor a reliable stormwater system Increase climate resilience <input checked="" type="checkbox"/> Increase community awareness for sustainable water		El Dorado County Water Agency and El Dorado County- Community Development Services, El Dorado Irrigation District, El Dorado County Department of Environmental Management, American River Conservancy, and Outingdale residents
Stage of Development		
<input type="checkbox"/> Conceptual <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Pre-Design <input type="checkbox"/> Design <input type="checkbox"/> Construction <input type="checkbox"/> Other		
Expected Project Timeline	Begin: 2019, End: 2020	
Project Triggers	The project is consistent with DWR stormwater resource objectives, particularly with respect to disadvantaged communities and implementing projects with multi-benefits. Funding	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Clean Water State Revolving Fund Program (CWSRF)		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas

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<p>Effective stormwater management will decrease the sediment, human waste, and pollution inputs that currently reach the Middle Fork Cosumnes River. Consequently, this will improve water quality and provide environmental benefits. Improved water quality will provide a community benefit of fewer pollutants entering the source of the community's drinking water. This project will generate employment opportunities when the study is undertaken, will provide an opportunity to engage the community and provide information and knowledge on why effective stormwater management practices are needed in the community.</p>	
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>Will be included in the next call for projects by the CABY IRWMP</u>
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one <u>Outingdale</u> _____ <input type="checkbox"/> No _____
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>The project is in the study/pre-design stage; CEQA is not required at this phase</u>
Contact Person(s):	
<p>Elena DeLacy, ARC Stewardship Manager, elena@arconservancy.org, 30-621-1224 Melinda Frost-Hurzel, ARC Cosumnes River Monitoring Coordinator, melinda@cosumnescoalition.org Dana Strahan, Drinking Water Manager, EID, dstrahan@eid.org Brian Mueller, Engineering Director, EID, BMUELLER@eid.org Barbara Houghton, El Dorado County Environmental Management, barbara.houghton@edcgov.us</p>	
Key References:	
NA	
Supplemental Information (e.g., Project Webpage or equivalent):	
NA	

¹DAC = Disadvantaged Communities
EDA = Economically Distressed Area

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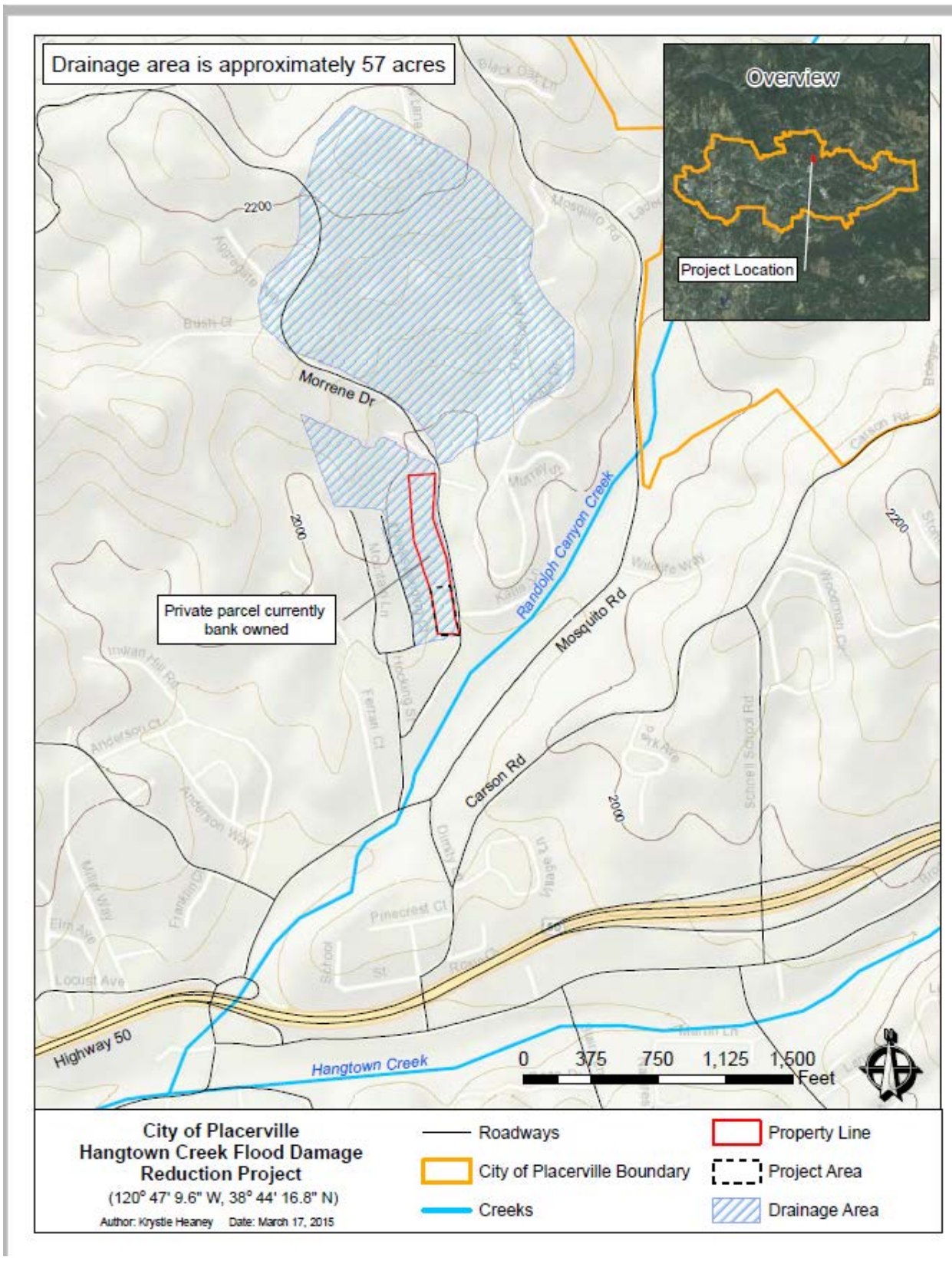
Appendix B Project Description Forms
March 2018

B.4.35 338 Stormwater Detention Basin- Hangtown Creek Flood Damage Reduction Project

Project/Program Name	<i>Stormwater Detention Basin- Hangtown Creek Flood Damage Reduction Project</i>		
Responsible Agency	City of Placerville		
Partner Agency (ies)	El Dorado County Water Agency		
Net Yield	Normal Year: 451AF/y	Wet Year: 619 AF/y	Dry Year: 316 AF/y
Estimated Cost	Capital: \$948,865		
Unit Cost	NA		
Site Coordinates (Approximate)	Latitude: 38.737947°	Longitude: -120.785611°	
Description			
<p>The proposed project is the construction of a storm water detention basin that was identified in the Hangtown Creek Comprehensive Watershed Plan (March 2012) for reducing peak flows in Hangtown Creek. The project's primary goal is to reduce flooding impacts on Hangtown Creek and the downtown Placerville corridor. This project is important because it will actively reduce floods and reduce associated property damage within the Hangtown Creek watershed, specifically through the City of Placerville's downtown corridor. Floods will be reduced by constructing an upstream detention pond that will help to prevent future creek channel overtopping and bank erosion, while promoting community involvement, education, and urban riparian habitat stewardship.</p> <p>The City of Placerville lies almost entirely within the Hangtown Creek watershed. Downtown Placerville straddles Hangtown Creek with significant portions of the creek located under parking lots and buildings. Significant flood risk exists in the watershed, especially along channelized segments of the Hangtown Creek stream corridor. Due to the proximity of some structures to the channel, there has been significant flood damage from major storm events. By undergoing this project, it will restore and enhance urban creek channels through effective and efficient flood damage reduction approaches that will preserve, restore, and enhance natural environmental values to local communities. The Placerville downtown corridor is located within a rich Historical and natural setting revolving around Hangtown Creek. By improving the hydrology and habitat of Hangtown Creek, thus improving the aesthetic values, the project is benefiting the community as well as the businesses that rely on tourists who visit downtown. This project is a crucial step to enhancing public safety, protecting property, and improving functions of Hangtown Creek, increasing local wetland habitat and promoting community involvement.</p> <p>Currently, the parcel of where the retention basin is to be built is owned by River City Bank. River City Bank has agreed to negotiate with the City of Placerville to purchase the lower half of the parcel for the detention basin as well as the upper parcels for additional open space for habitat and flood water infiltration.</p> <p>The creation of the new urban wetland habitat will improve wildlife habitat and community aesthetics by ensuring permanent open space designation of this residential-zoned land to protect, restore and enhance urban creek channels through effective and efficient flood damage reduction approaches that will preserve, restore, and enhance natural environmental values to local communities.</p>			
Component			
Stormwater Management			
Potential Challenges			
Funding			
Conceptual GIS Map of Site			
The proposed basin will be located in between Morrene Drive and Hawks Landing Court in Placerville, CA			

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Purpose(s)		Key Stakeholders
<input type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input checked="" type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		City of Placerville El Dorado County Water Agency
Stage of Development		
<input type="checkbox"/> Conceptual <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Pre-Design <input type="checkbox"/> Design <input type="checkbox"/> Construction <input type="checkbox"/> Other		
Expected Project Timeline	<i>Begin: 2019, End: 2019</i>	
Project Triggers	Funding Flood Event Water quality degradation in Hangtown Creek	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program U.S. Environmental Protection Agency (EPA) - Wetlands Program Development Grants (WPDGs)		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas

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<p>The proposed project will delay and reduce peak runoff from Randolph Canyon and thereby decrease the flow rate and magnitude into Hangtown Creek during storm events. By decreasing the flow rates, delaying the peak flow, and reducing the peak magnitude of flows from Randolph Canyon, the likelihood of flood damage occurring downstream will substantially decrease. In addition, the creation of the detention basin will help improve water quality in Hangtown Creek by allowing some particulate matter to settle out of the water before it makes its way into the creek. Furthermore, the creation of new urban wetland habitat will improve wildlife habitat and community aesthetics by ensuring permanent open space designation of this residential-zoned land. The construction of the project will benefit the community by creating jobs and awareness/education on the importance, yet current degraded conditions of Hangtown Creek.</p>	
<p>Project Included in IRWM:</p>	<p><input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project is not added to IRWM currently</u></p>
<p>Project Benefits a DAC/EDA:¹</p>	<p><input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No _____</p>
<p>CEQA Compliance:</p>	<p><input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>Anticipated</u></p>
<p>Contact Person(s):</p>	
<p>Pierre Rivas, Director-Development Services Department, privas@cityofplacerville.org, (530) 642-5252</p>	
<p>Key References:</p>	
<p>Hangtown Creek Comprehensive Watershed Plan</p>	
<p>Supplemental Information (e.g., Project Webpage or equivalent):</p>	
<p>NA</p>	

¹DAC = Disadvantaged Communities
 EDA = Economically Distressed Area

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B.4.36 339 Facility Upgrades for the El Dorado Disposal MRF

Project/Program Name	<i>Facility Upgrades for the El Dorado Disposal MRF</i>		
Responsible Agency	El Dorado County Department of Environmental Management		
Partner Agency (ies)	NA		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: Cost not calculated due to conceptual nature of project.		
Unit Cost	NA		
Site Coordinates	Latitude: 38.703741°	Longitude: -120.813501°	
Description			
<p>The proposed project will include doing upgrades to the El Dorado Disposal Material Recovery Facility (MRF). Much of this facility's materials processing areas are not under cover. Upgrades to the MRF will included covering and enclosing all materials processing and waste storage areas and existing stormwater basins will be reconfigured to enhance stormwater discharge control. In undergoing this project, a rooftop rainwater capture system for non-potable water use would be added. The rainwater that is captured may be used for dust control or for landscape water.</p>			
Component			
Stormwater Management			
Potential Challenges			
Funding Timing			
Conceptual GIS Map of Site			

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ID 339 - Facility Upgrades for the El Dorado Disposal MRF

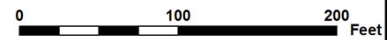
Project Type

● Stormwater Management

■ Linear Project Limits

■ Project Limits

Project Component:
 Stormwater Management
Latitude: 38.703741
Longitude: -120.813501



Projection: CA SP II NAD83
 Background: NAIP (2016)
 Prepared: December, 2017

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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input checked="" type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input checked="" type="checkbox"/> Increase community awareness for sustainable water		El Dorado County Department of Environmental Management, and El Dorado Disposal MRF
Stage of Development		
<input checked="" type="checkbox"/> Conceptual <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Pre-Design <input type="checkbox"/> Design <input type="checkbox"/> Construction <input type="checkbox"/> Other		
Expected Project Timeline	Begin: 2019, End: 2019	
Project Triggers	Funding	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Clean Water State Revolving Fund Program (CWSRF)		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
<input checked="" type="checkbox"/> Primary <input type="checkbox"/> Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas

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<p>Under this project nonpoint source pollution will be reduced as the upgrades done to the facility will contain and prevent constituents from discharging into the local environment. If the project includes the capture of rainwater and the use of it on site, the project would also help improve water supply reliability at a local scale, which will help towards water conservation efforts. This project will generate short term employment opportunities during the construction phase and will involve the community.</p>	
<p>Project Included in IRWM:</p>	<p><input type="checkbox"/> Yes, which one _____</p> <p><input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, not added to IRWM currently</u></p>
<p>Project Benefits a DAC/EDA:¹</p>	<p><input checked="" type="checkbox"/> Yes, which one <u>Project found in 2010-2014 DAC Tracts as identified by the CA Department of Water Resources</u></p> <p><input type="checkbox"/> No _____</p>
<p>CEQA Compliance:</p>	<p><input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, no environmental documentation is completed yet</u></p>
<p>Contact Person(s):</p>	
<p>Amy Velasco, County of El Dorado, Community Development Services, Environmental Management Department, Supervising Environmental Health Specialist, amy.velasco@edcgov.us, (530) 621-6665 Brendan Ferry, El Dorado County Principal Planner, brendan.ferry@edcgov.us, (530) 573-7905</p>	
<p>Key References:</p>	
<p>El Dorado Disposal Franchise Waste Services Agreement between the County of El Dorado and El Dorado Disposal, Exhibit D (page 144) El Dorado County Solid Waste Management Plan</p>	
<p>Supplemental Information (e.g., Project Webpage or equivalent):</p>	
<p>NA</p>	

¹DAC = Disadvantaged Communities
 EDA = Economically Distressed Area

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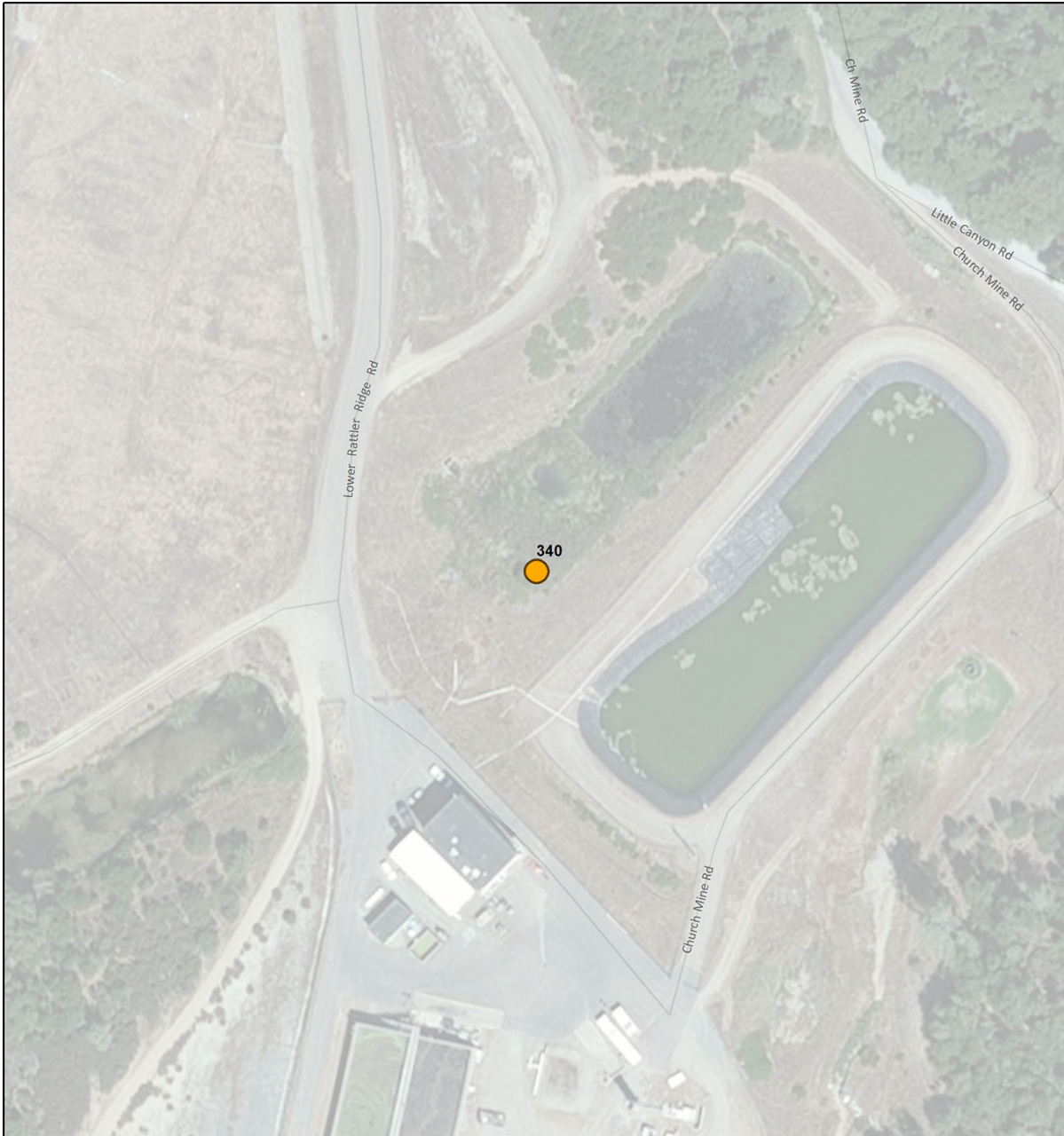
Appendix B Project Description Forms
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B.4.37 340 Union Mine Landfill Retention Pond

Project/Program Name	<i>Union Mine Landfill Retention Pond</i>		
Responsible Agency	El Dorado County Department of Environmental Management		
Partner Agency (ies)	NA		
Net Yield	Normal Year: 140 AF/y	Wet Year: 193 AF/y	Dry Year: 97 AF/y
Estimated Cost	Capital: Cost not calculated due to conceptual nature of project.		
Unit Cost	NA		
Site Coordinates	Latitude: 38.647599	Longitude: -120.827110°	
Description			
The Union Mine Landfill has a series of retention ponds used to manage stormwater runoff, prevent flooding, prevent erosion, and improve water quality. After a storm event, a retention pond was breached. Under this project the retention pond will be rebuilt.			
Component			
Stormwater Management			
Potential Challenges			
Funding			
Conceptual GIS Map of Site			

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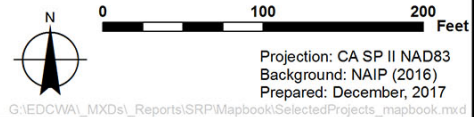
Appendix B Project Description Forms
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ID 340 - Union Mine Landfill Retention Pond

- Project Type**
- Stormwater Management
 - Linear Project Limits
 - Project Limits

Project Component:
Stormwater Management
Latitude: 38.647599
Longitude: -120.82711



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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		El Dorado County Department of Environmental Management
Stage of Development		
<input type="checkbox"/> Conceptual <input type="checkbox"/> Planning <input type="checkbox"/> Pre-Design <input type="checkbox"/> Design <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Other		
Expected Project Timeline	Begin: 2019, End: 2019	
Project Triggers	Funding	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Clean Water State Revolving Fund Program (CWSRF)		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
<input checked="" type="checkbox"/> Primary <input type="checkbox"/> Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas

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Under this project the flood risk will be decreased once the retention pond is reconstructed. Additionally, the retention basin will increase filtration and or treatment of runoff. In reconstructing the retention basin, there will be employment opportunities available, the community will be involved and then there will be a public education component.	
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project is not added to IRWM currently</u>
Project Benefits a DAC/EDA: ¹	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No _____
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>CEQA has not been completed</u>
Contact Person(s):	
Rob Brillisour, Disposal Site Supervisor, rob.brillisour@edcgov.us , (530) 295-0429 Brendan Ferry, El Dorado County Principal Planner, brendan.ferry@edcgov.us , (530) 573-7905	
Key References:	
NA	
Supplemental Information (e.g., Project Webpage or equivalent):	
NA	

¹DAC = Disadvantaged Communities
EDA = Economically Distressed Area

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B.4.38 341 BMP for Agricultural Erosion and Sediment Control Manual

Project/Program Name	<i>Best Management Practices for Agricultural Erosion and Sediment Control Manual</i>		
Responsible Agency	El Dorado County- Community Development Services		
Partner Agency (ies)	NA		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: Cost not calculated due to conceptual nature of project.		
Unit Cost	NA		
Site Coordinates (Approximate)	Latitude: 38.727779° (El Dorado County- Community Development Services)	Longitude: -120.829955° (El Dorado County- Community Development Services)	
Description			
<p>This project involves creating a Best Management Practices (BMP) Manual for the Western Slope of El Dorado County that relates towards promoting sustainable and environmentally conscious agricultural practices that will improve the regional water quality. In creating the manual the County will contribute towards improving the water quality in the area in addition to meeting MS4 Compliance. The BMP Manual will be used in the agricultural areas of El Dorado County where local officials, contractors and developers will have access to it and see an array of ecologically based stormwater treatment technologies that they may use on rural and agricultural lands, which may include practices that help reduce the runoff of pesticides into regional water supplies. The goal of the BMP Manual will be to provide the minimum requirements to control water quality from accelerated erosion and sedimentation that result from agricultural activities. The BMP will promote the use of the following drainage features: pipes with inlets, water bars, grass swales, and perforated pipes.</p>			
Component			
Stormwater Management			
Potential Challenges			
Funding			
Conceptual GIS Map of Site			
No available map			
Purpose(s)		Key Stakeholders	
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input checked="" type="checkbox"/> Improve local water supply reliability <input checked="" type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input checked="" type="checkbox"/> Increase community awareness for sustainable water		El Dorado County- Community Development Services	
Stage of Development			

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<input checked="" type="checkbox"/> Conceptual <input type="checkbox"/> Design	<input type="checkbox"/> Planning <input type="checkbox"/> Construction	<input type="checkbox"/> Pre-Design <input type="checkbox"/> Other
Expected Project Timeline	Begin: 2019, End: 2019	
Project Triggers	Funding	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program U.S. Environmental Protection Agency (EPA) - Clean Water State Revolving Fund (CWSRF)		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas
<p>The Best Management Practices (BMP) Manual will include several BMPs for the community to reference to prevent accelerated erosion and sedimentation. The items that will be contained in the manual will help improve water quality. The creation of this manual will engage the community in the county of El Dorado to learn and apply the BMPs listed in agricultural and rural land. The development of the BMP Manual will create short term employment opportunities.</p>		
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, not added to IRWM currently</u>	

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Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one <u>Manual will benefit DACs and EDAs</u> <input type="checkbox"/> No _____
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, no environmental documentation is completed yet</u>
Contact Person(s):	
Brendan Ferry, El Dorado County Principal Planner, brendan.ferry@edcgov.us , (530) 573-7905	
Key References:	
Proposed Manual would look like the referenced source: http://sonomacounty.ca.gov/uploadedFiles/Sonoma_County_Portal/Agriculture_Weights_and_Measures/Divisions_and_Sections/Agriculture_Division/Ordinances/Apiary/_Documents/bmp_handbook3.pdf	
Supplemental Information (e.g., Project Webpage or equivalent):	
NA	

¹DAC = Disadvantaged Communities
 EDA = Economically Distressed Area

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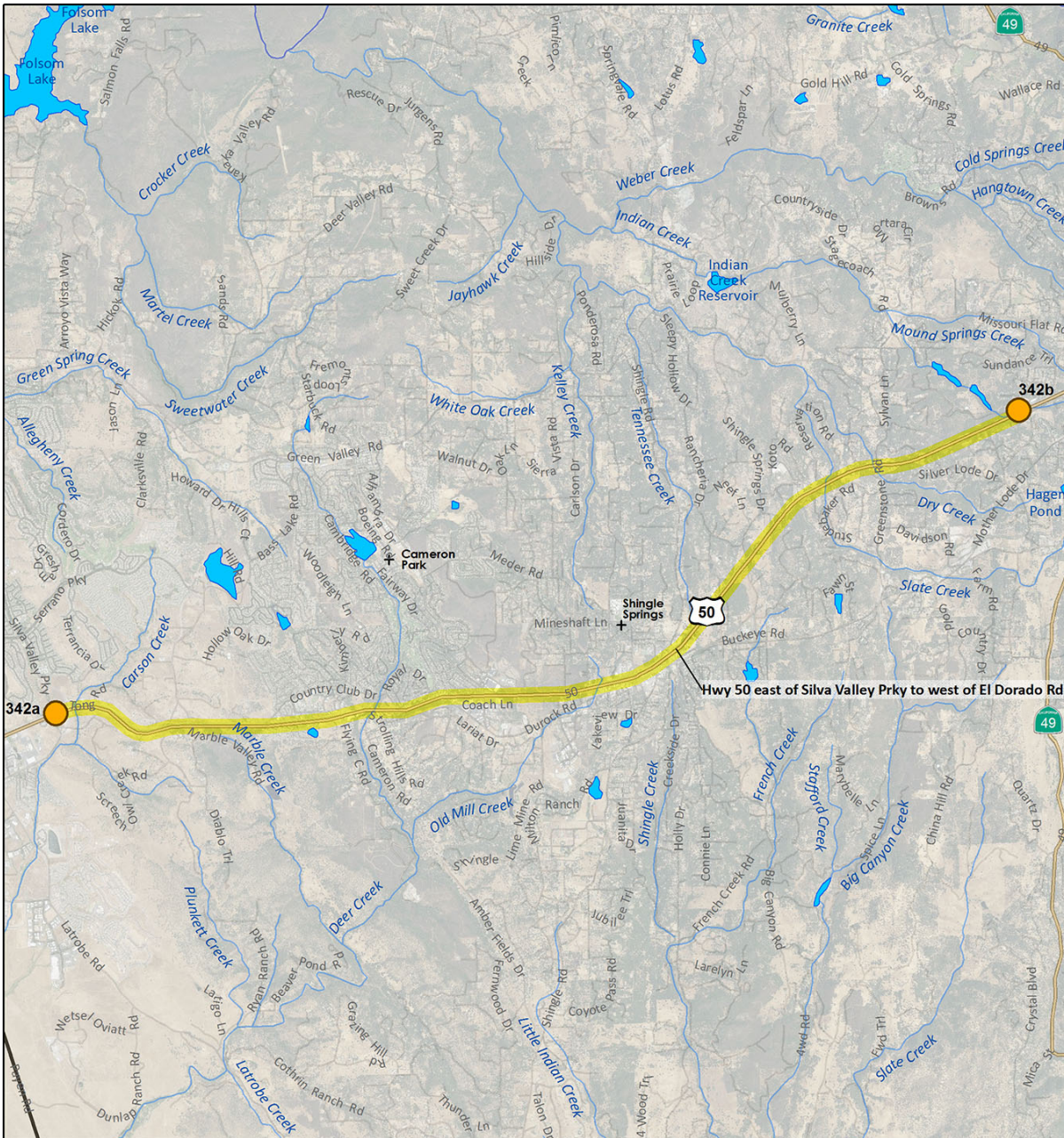
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B.4.39 342 Culvert Rehabilitation along Highway 50 near Cameron Park and Shingle Springs

Project/Program Name	<i>Culvert Rehabilitation along Highway 50 near Cameron Park and Shingle Springs</i>		
Responsible Agency	California Department of Transportation		
Partner Agency (ies)	Cameron Park and Shingle Springs		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: Cost not calculated due to conceptual nature of project.		
Unit Cost	NA		
Site Coordinates	Latitude: Starting location 38.657476°	Longitude: Starting location -121.056949	
Description			
This project is a culvert rehabilitation project that involves 28 culverts that need to be relined and/or replaced. This project will occur in and near Cameron Park and Shingle Springs, from east of Silva Valley Parkway to the west of El Dorado Road.			
Component			
Stormwater Management			
Potential Challenges			
Climatological predictions may affect the sizing or effectiveness of this project.			
Conceptual GIS Map of Site			

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ID 342 - Culvert Rehabilitation along Highway 50 near Cameron Park and Shingle Springs

Project Type

- Linear Project Limits
- Stormwater Management
- Project Limits

Project Component:
Stormwater Management

Latitude: 38.657476
Longitude: -121.056949

0 8,400 16,800 Feet

Projection: CA SP II NAD83
Background: NAIP (2016)
Prepared: December, 2017

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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		California Department of Transportation, Cameron Park, Shingle Springs
Stage of Development		
<input type="checkbox"/> Conceptual <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Pre-Design <input type="checkbox"/> Design <input type="checkbox"/> Construction <input type="checkbox"/> Other		
Expected Project Timeline	Begin: 2022, End: 2023	
Project Triggers	Serious flooding events along highway 50 and the surrounding areas	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas

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<p>The replacement and the relining of the various culverts along Highway 50 will improve the water quality of the area in a local scale and ultimately improve habitat and watershed conditions. Replacing the culverts will decrease the flood risk in the county and will reduce the rates of erosion. The proposed project will provide job opportunities since people will be needed to replace the culverts. In replacing the culverts, the natural hydrograph of some water bodies will be reestablished.</p>	
<p>Project Included in IRWM:</p>	<p><input type="checkbox"/> Yes, which one _____</p> <p><input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, not added to IRWM currently</u></p>
<p>Project Benefits a DAC/EDA:¹</p>	<p><input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No _____</p>
<p>CEQA Compliance:</p>	<p><input checked="" type="checkbox"/> Yes, explain <u>This will be completed</u></p> <p><input type="checkbox"/> No, explain _____</p>
<p>Contact Person(s):</p>	
<p>Clark Peri, Project Manager Caltrans District 3, clark.peri@dot.ca.gov, (916) 825-8168</p>	
<p>Key References:</p>	
<p>NA</p>	
<p>Supplemental Information (e.g., Project Webpage or equivalent):</p>	
<p>NA</p>	

¹DAC = Disadvantaged Communities
 EDA = Economically Distressed Area

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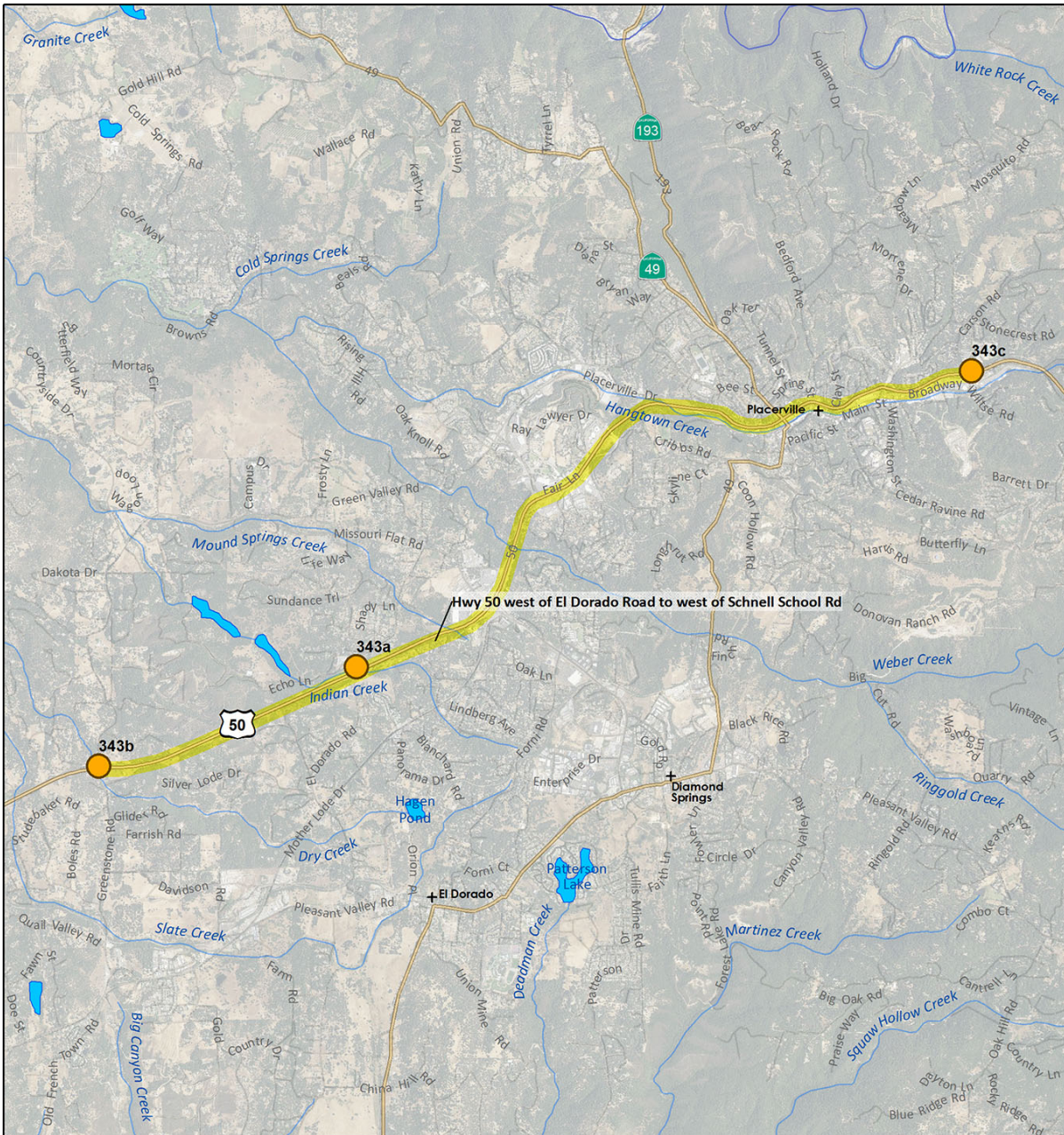
Appendix B Project Description Forms
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B.4.40 343 Culvert Rehabilitation along Highway 50 near the City of Placerville

Project/Program Name	<i>Culvert Rehabilitation along Highway 50 near the City of Placerville</i>		
Responsible Agency	California Department of Transportation		
Partner Agency (ies)	City of Placerville		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: Cost not calculated due to conceptual nature of project.		
Unit Cost	NA		
Site Coordinates (Approximate)	Latitude: Starting Location 38.705360°	Longitude: Starting Location -120.856004	
Description			
This project is a culvert rehabilitation project that involves 36 culverts that need to be relined and/or replaced. This project will occur in and near Placerville, specifically from the west of El Dorado Road to west of Schnell School Road.			
Component			
Stormwater Management			
Potential Challenges			
Climatological predictions may affect the sizing or effectiveness of this project.			
Conceptual GIS Map of Site			

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ID 343 - Culvert Rehabilitation along Highway 50 near the City of Placerville

Project Type

- Stormwater Management

Project Limits

- Linear Project Limits
- Project Limits

Project Component:
Stormwater Management

Latitude: 38.696061
Longitude: -120.887968

Projection: CA SP II NAD83
Background: NAIP (2016)
Prepared: December, 2017

0 5,000 10,000 Feet

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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		California Department of Transportation, City of Placerville
Stage of Development		
<input type="checkbox"/> Conceptual <input type="checkbox"/> Design		<input checked="" type="checkbox"/> Planning <input type="checkbox"/> Construction <input type="checkbox"/> Other
Notes on Stage of Development		
Expected Project Timeline	Begin: 2021, End: 2022	
Project Triggers	Serious flooding events along highway 50 and the surrounding areas	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas
<p>The replacement and the relining of the various culverts along Highway 50 will improve the water quality of the area in a local scale and ultimately improve habitat and watershed conditions. Replacing the culverts will decrease the</p>		

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flood risk in the county and will reduce the rates of erosion. The proposed project will provide job opportunities since people will be needed to replace the culverts. In replacing the culverts, the natural hydrograph of some water bodies will be reestablished.	
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, not added to IRWM currently</u>
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one <u>Project found under the 2010-2014 DAC Places as identified by the CA Department of Water Resources</u> <input type="checkbox"/> No _____
CEQA Compliance:	<input checked="" type="checkbox"/> Yes, explain <u>This will be completed</u> <input type="checkbox"/> No, explain _____
Contact Person(s):	
Clark Peri, Project Manager Caltrans District 3, clark.peri@dot.ca.gov, (916) 825-8168	
Key References:	
NA	
Supplemental Information (e.g., Project Webpage or equivalent):	
NA	

¹DAC = Disadvantaged Communities
 EDA = Economically Distressed Area

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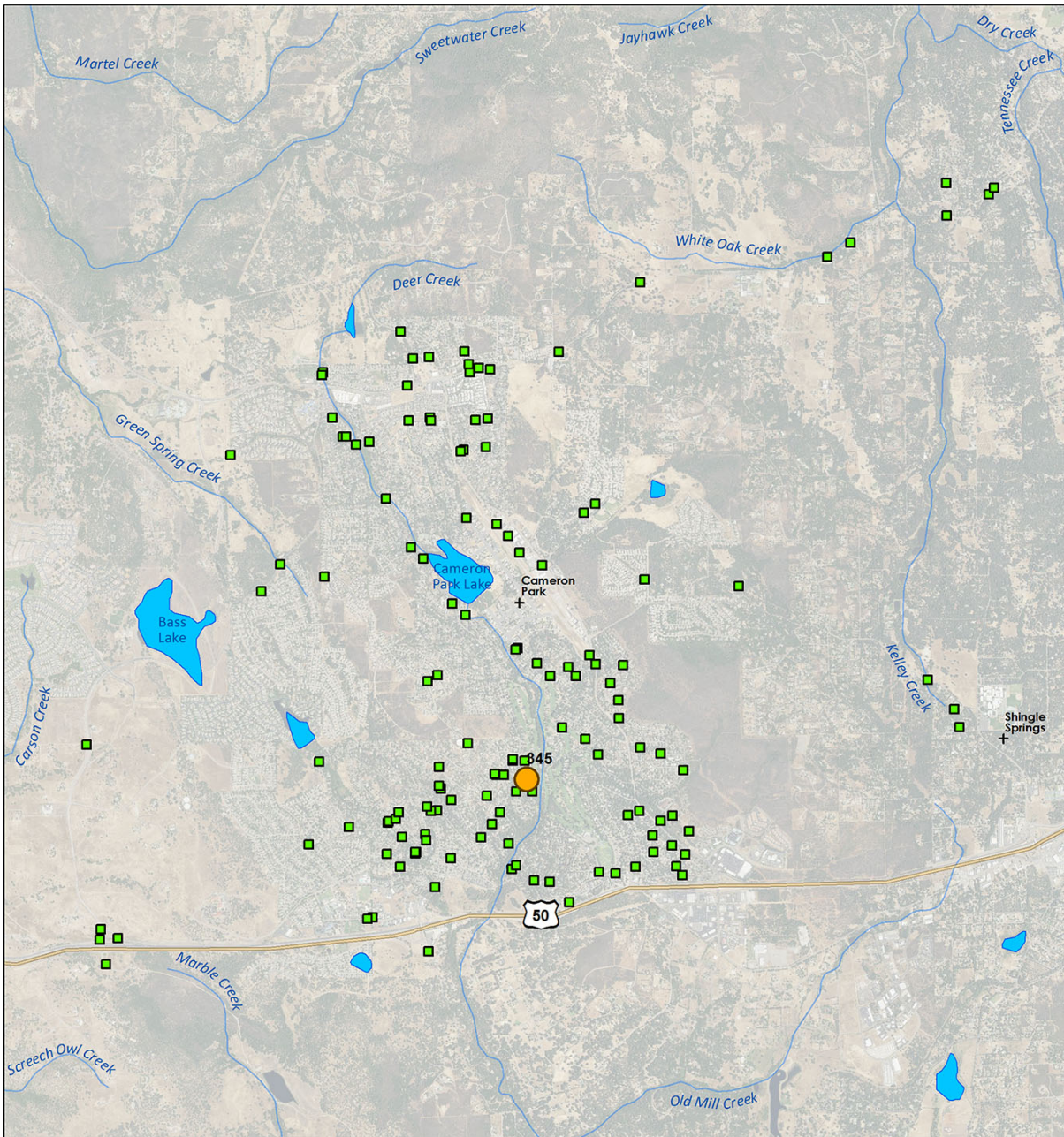
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B.4.41 345 Cameron Park Drainage Improvements

Project/Program Name	<i>Cameron Park Drainage Improvements</i>		
Responsible Agency	El Dorado County- Community Development Services		
Partner Agency (ies)	Cameron Park		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: Cost not calculated due to conceptual nature of project.		
Unit Cost	NA		
Site Coordinates (Approximate)	Latitude: 38.667965°	Longitude: -120.987758°	
Description			
<p>Under the proposed project, Cameron Park will undergo a series of drainage improvements to address the occurrence of occasional flooding. This is an older developed area that does not have the adequate infrastructure for drainage. The drainage improvements that will be done include adding culverts, replacing culverts, adding ditches, cleaning out current ditches, cleaning up the local streams and creeks used for drainage, and adding storm sewers and drains to areas that experience critical flooding. Bank stabilization will also occur on the creeks and tributaries found in Cameron Park. Cameron Park experiences sheet flow and drains directly to the local creeks that are not maintained. Ideally, 401 and 404 permits should be obtained for drainage maintenance throughout Cameron Park to assure that drainages are maintained pursuant to jurisdictional requirements to allow water to be conveyed at full capacities without impairing the local water supplies. Ultimately, the project goal is to improve the infrastructure, clean up the creeks that are used for drainage, and create a drainage study that identifies the critical drainage points in Cameron Park that need improvements and need to be maintained. This project will also take advantage of the wetlands found in Cameron Park to treat, capture and infiltrate stormwater runoff. If possible, low impact development (LID) approaches will be applied for this project.</p>			
Component			
Stormwater Management			
Potential Challenges			
Funding			
Conceptual GIS Map of Site			

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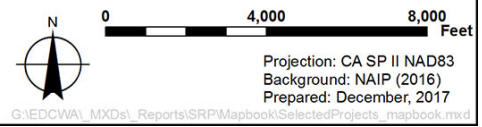


ID 345 - Cameron Park Drainage Improvements

- Project Type**
- Stormwater Management
 - CameronParkCulverts

- Linear Project Limits
- Project Limits

Project Component:
Stormwater Management
Latitude: 38.667965
Longitude: -120.987758



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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input checked="" type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		El Dorado County- Community Development Services, Cameron Park, and El Dorado Hills Community Services District
Stage of Development		
<input checked="" type="checkbox"/> Conceptual <input type="checkbox"/> Planning <input type="checkbox"/> Pre-Design <input type="checkbox"/> Design <input type="checkbox"/> Construction <input type="checkbox"/> Other		
Expected Project Timeline	Begin: 2019, End: 2021	
Project Triggers	Funding Extreme Flood Event Water Quality Degradation	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
<input checked="" type="checkbox"/> Primary <input type="checkbox"/> Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas

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<p>The proposed project is aimed to improve the drainage in Cameron Park. In doing this project the non-point source pollution will be reduced, the risk of flooding will be reduced, the filtration and treatment of stormwater runoff will be incorporated throughout the community, the natural drainage and treatment of stormwater runoff will be reestablished (Ex. with the use of wetlands), the natural hydrograph of the local water bodies will be reestablished (by cleaning up the creeks), and the local environment and habitats will be enhanced. This project will generate job opportunities to complete the work that is to be done. By using wetlands in this project, the reduction of floods and improved water quality in the area will be significantly accomplished.</p>	
<p>Project Included in IRWM:</p>	<p><input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, not added to IRWM currently</u></p>
<p>Project Benefits a DAC/EDA:¹</p>	<p><input type="checkbox"/> Yes, which one __ <input checked="" type="checkbox"/> No _____</p>
<p>CEQA Compliance:</p>	<p><input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, no environmental documentation is completed yet</u></p>
<p>Contact Person(s):</p>	
<p>Dave Spiegelberg, El Dorado County Department of Transportation, dave.spiegelberg@edcgov.us, (530) 621-6077 Brendan Ferry, El Dorado County Principal Planner, brendan.ferry@edcgov.us, (530) 573-7905</p>	
<p>Key References:</p>	
<p>NA</p>	
<p>Supplemental Information (e.g., Project Webpage or equivalent):</p>	
<p>NA</p>	

¹DAC = Disadvantaged Communities
 EDA = Economically Distressed Area

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B.4.42 346 Priority County Culvert Replacements

Project/Program Name	<i>Priority County Culvert Replacements</i>		
Responsible Agency	El Dorado County Department of Transportation		
Partner Agency (ies)	City of Placerville, California Department of Transportation		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: Cost not calculated due to conceptual nature of project.		
Unit Cost	NA		
Site Coordinates	Latitude: 38.727779° (El Dorado County Department of Transportation)	Longitude: -120.829955° (El Dorado County Department of Transportation)	
Description			
This project involves the replacement of several culverts throughout the County of El Dorado that have the potential to fail or require upsizing for flood reduction. Culvert replacement is essential to reduce flood risks throughout the county.			
Component			
Stormwater Management			
Potential Challenges			
Funding Climatological predictions may affect the sizing or effectiveness of this project.			
Conceptual GIS Map of Site			
No available map			
Purpose(s)		Key Stakeholders	
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		El Dorado County Department of Transportation, City of Placerville, and California Department of Transportation	
Stage of Development			
<input checked="" type="checkbox"/> Conceptual <input type="checkbox"/> Design		<input type="checkbox"/> Planning <input type="checkbox"/> Construction <input type="checkbox"/> Pre-Design <input type="checkbox"/> Other	
Expected Project Timeline	Begin: 2019, End: 2020		

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Project Triggers	Serious flooding events	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas
<p>The replacement of the various culverts throughout the County will improve the water quality of the area in a regional scale and ultimately improve habitat and watershed conditions. As a result non-point source pollution will be reduced. In addition, replacing the culverts will decrease the flood risk in the county and will reduce the rates of erosion. The proposed project will provide job opportunities since people will be needed to replace the culverts. In replacing the culverts, the natural hydrograph of some water bodies will be reestablished. This project will also contain a public education component and will involve the community.</p>		
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, not added to IRWM currently</u>	
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one <u>County-wide project that will benefit DACs and EDAs</u> <input type="checkbox"/> No _____	
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, no environmental documentation is completed yet</u>	

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Contact Person(s):
Brendan Ferry, El Dorado County Principal Planner, brendan.ferry@edcgov.us , (530) 573-7905
Key References:
NA
Supplemental Information (e.g., Project Webpage or equivalent):
NA

¹DAC = Disadvantaged Communities
EDA = Economically Distressed Area

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B.4.43 347 Sly Park Portal Subdivision Flood Management Project

Project/Program Name	<i>Sly Park Portal Subdivision Flood Management Project</i>		
Responsible Agency	El Dorado County- Community Development Services		
Partner Agency (ies)	California Department of Transportation		
Net Yield	Normal Year: 897 AF/y	Wet Year: 1,231 AF/y	Dry Year: 628 AF/y
Estimated Cost	Capital: Cost not calculated due to conceptual nature of project.		
Unit Cost	NA		
Site Coordinates	Latitude: 38.757440°	Longitude: -120.576626°	
Description			
<p>In the community of Pollock Pines, Sly Park Portal Subdivision has no gutters and curbs, and as a result it experiences occasional flooding. Overall, this project aims to improve the infrastructure in the area to reduce the flood risk that residents experience. Flood risk will be reduced in the community by cleaning out several existing ditches and cross drainage culverts. Some areas will have the addition of storm sewers and drains to mitigate flood risk. Under this project there is an opportunity to retrofit up-gradient County and Caltrans infrastructure to reduce the amount of water flowing through the subdivision. These retrofits would include impervious area disconnection and infiltration/treatment. If possible, low impact development (LID) approaches will be applied for this project.</p>			
Component			
Stormwater Management			
Potential Challenges			
Funding			
Climatological predictions may affect the sizing or effectiveness of this project.			
Conceptual GIS Map of Site			

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ID 347 - Sly Park Portal Subdivision Flood Management Project

Project Type

- Stormwater Management

Legend

- Linear Project Limits
- Project Limits
- USFS Timber License Area

Project Component:
Stormwater Management

Latitude: 38.75744
Longitude: -120.576626

0 2,000 4,000 Feet

Projection: CA SP II NAD83
Background: NAIP (2016)
Prepared: December, 2017

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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		El Dorado County- Community Development Services and California Department of Transportation
Stage of Development		
<input checked="" type="checkbox"/> Conceptual <input type="checkbox"/> Planning <input type="checkbox"/> Pre-Design <input type="checkbox"/> Design <input type="checkbox"/> Construction <input type="checkbox"/> Other		
Expected Project Timeline	Begin: 2019, End: 2020	
Project Triggers	Serious flooding events Sewer or drainage failures	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
<input checked="" type="checkbox"/> Primary <input type="checkbox"/> Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas
This project is a flood management project that will reduce the occurrence of floods in the area. In addressing the flood problems that arise, the occurrence of non-point source pollution will be reduced and opportunities will arise		

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to increase the filtration and treatment of runoff, which will contribute towards improving the local environmental conditions. In addition, the drainage improvements and pipe upgrades that are to be completed will help reduce the possibility of having sanitary sewer overflows. The project will provide short term employment opportunities, will involve the community and will have a public education component.	
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, not added to IRWM currently</u>
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one <u>Project falls under the 2010-2014 DAC Places identified by the CA Department of Water Resources</u> <input type="checkbox"/> No _____
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, no environmental documentation is completed yet</u>
Contact Person(s):	
Brendan Ferry, El Dorado County Principal Planner, brendan.ferry@edcgov.us , (530) 573-7905	
Key References:	
NA	
Supplemental Information (e.g., Project Webpage or equivalent):	
NA	

¹DAC = Disadvantaged Communities
 EDA = Economically Distressed Area

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B.4.44 348 Fish and Wildlife Routine Maintenance Agreement

Project/Program Name	<i>Fish and Wildlife Routine Maintenance Agreement</i>		
Responsible Agency	El Dorado County Department of Transportation		
Partner Agency (ies)	U.S. Fish and Wildlife Service		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$50,000.00		
Unit Cost	NA		
Site Coordinates	Latitude: 38.727779° (El Dorado County Department of Transportation)	Longitude: -120.829955° (El Dorado County Department of Transportation)	
Description			
<p>This project is county-wide in which brushing, ditching and infrastructure maintenance will occur in priority maintenance areas that are identified under the CA Fish and Wildlife Jurisdictional area (primarily focused on urban areas susceptible to road, structural flooding, and priority infrastructure locations). The project will include the preparation of necessary documents for the CA Fish and Wildlife Notification of Lake or Streambed Alteration Routine Maintenance Agreement – Attachment D application. This is ultimately a water quality project that can be used for MS4 compliance, flood reduction, and road and drainage infrastructure integrity improvement. Flood reduction will be accomplished by cleaning existing ditches and by cleaning streams and creeks used for drainage. If possible low impact development (LID) approaches will be applied for this project.</p>			
Component			
Stormwater Management			
Potential Challenges			
Funding			
Climatological predictions may affect the sizing or effectiveness of this project.			
Conceptual GIS Map of Site			
No available map			
Purpose(s)		Key Stakeholders	
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		El Dorado County Department of Transportation, and U.S. Fish and Wildlife Service	
Stage of Development			

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<input checked="" type="checkbox"/> Conceptual	<input type="checkbox"/> Planning	<input type="checkbox"/> Pre-Design
<input type="checkbox"/> Design	<input type="checkbox"/> Construction	<input type="checkbox"/> Other
Expected Project Timeline	Begin: 2019, End: 2020	
Project Triggers	Water quality degradation Extreme weather conditions Extreme flood event Funding	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program U.S. Environmental Protection Agency (EPA) - Clean Water State Revolving Fund (CWSRF)		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas
In collaboration with the U.S. Fish and Wildlife Service, the water quality of various areas will be significantly improved. With the brushing projects the environment and local habitats will be significantly enhanced. The ditching and infrastructure maintenance proposed will help reduce flood risks. This project also has the potential to create		

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opportunities for the public to be engaged (volunteer their time to help) or for the project to create job opportunities to do large brushing, ditching and infrastructure maintenance. This project also has a public education component.	
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, not added to IRWM currently</u>
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one <u>County wide project would benefit several areas including DACs and EDAs</u> <input type="checkbox"/> No _____
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, no environmental documentation is completed yet</u>
Contact Person(s):	
Brendan Ferry, El Dorado County Principal Planner, brendan.ferry@edcgov.us , (530) 573-7905	
Key References:	
NA	
Supplemental Information (e.g., Project Webpage or equivalent):	
NA	

¹DAC = Disadvantaged Communities
 EDA = Economically Distressed Area

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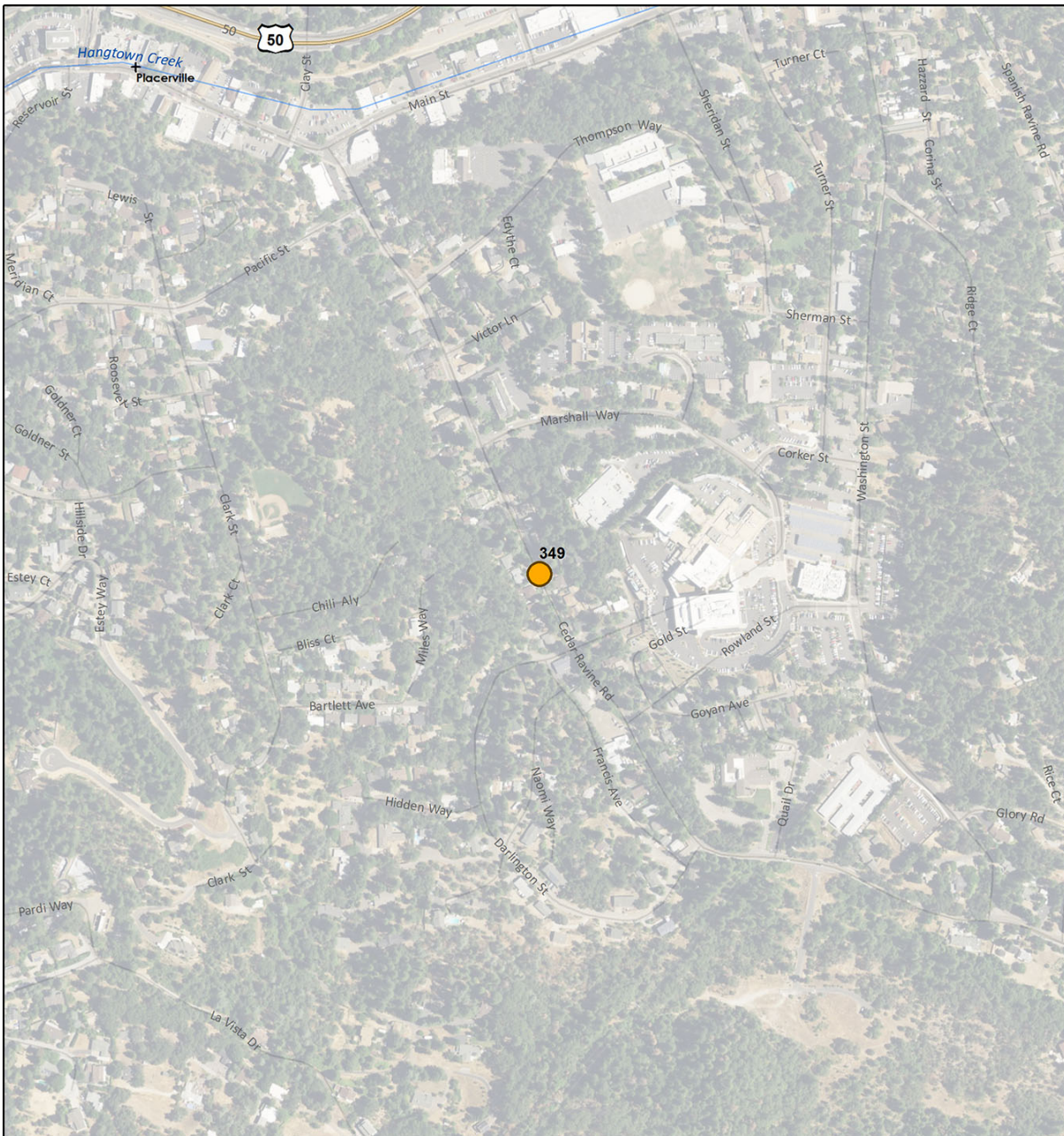
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B.4.45 349 Cedar Ravine Road Drainage Improvement

Project/Program Name	<i>Cedar Ravine Road Drainage Improvement</i>		
Responsible Agency	City of Placerville		
Partner Agency (ies)	Caltrans		
Net Yield	Normal Year:	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$2,600,000		
Unit Cost	\$1,000/Linear Feet of 10' x 5' Reinforced Concrete Box, \$2,500/Cubic Yards of 15' x 9' x 1' Cast-Place-Headwall, \$4,000/EA of Drain Inlets, \$46/Linear Feet of Curb and Gutter, \$11/Square Feet of Sidewalk, \$96/Ton of Asphalt Concrete Paving, \$62/Ton of Aggregate Base, \$279/Linear Feet of 10-inch PVC Sewer Main, \$10,000/EA manhole, \$3,400/EA of Sewer Lower Lateral, \$227/Linear Feet of 6-inch Water Main, \$3,220/EA of Water Service		
Site Coordinates	Latitude: 38.724660°	Longitude: -120.793631°	
Description			
<p>Some locations of Cedar Ravine have been constricted due to encroachments by private property improvements and trees causing restricting flows and flooding into private properties. There's an existing above ground sewer main located in the flow line of the Cedar Ravine Creek, and water service crossings within the flow area. Residents access driveways by private bridges; many are in poor condition. The top of creek is beginning to encroach and erode the roadway along Cedar Ravine Road. The project proposes to replace the open channel with box culverts which would widen the creek, remove obstructions, and provide necessary capacity for the flow of the channel. The project proposes approximately 800 LF of box culverts. Precast box culverts are manufactured in 12-foot sticks so the project could require 67 boxes. Removal of the sewer main in the channel will create large water quality and environmental benefits through creek restoration and reestablishment of the natural hydrograph. Project also includes a community benefit through building a pedestrian walkway for enhancement of public use .The proposed project will occur on Cedar Ravine Rd, extending from the intersection of Darlington Ave to the intersection of Man St.</p>			
Component			
Stormwater Management			
Potential Challenges			
<p>The existing system and proposed improvement is expected to require modeling. Environmental permitting is expected to be required (USACE, F&W, and RSWQB) Extensive public outreach is expected to be necessary. Considerable construction impacts to the public. High Cost</p>			
Conceptual GIS Map of Site			

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ID 349 - Cedar Ravine Drainage Improvement

Project Type

● Stormwater Management

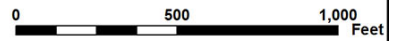
Linear Project Limits

Project Limits

Project Component:
Stormwater Management

Latitude: 38.72466

Longitude: -120.793631



Projection: CA SP II NAD83
Background: NAIP (2016)
Prepared: January, 2018

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March 2018

Purpose(s)		Key Stakeholders
<input type="checkbox"/> Improve in-stream water quality <input type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input checked="" type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		City of Placerville, Caltrans
Stage of Development		
<input checked="" type="checkbox"/> Conceptual <input type="checkbox"/> Planning <input type="checkbox"/> Pre-Design <input type="checkbox"/> Design <input type="checkbox"/> Construction <input type="checkbox"/> Other		
Expected Project Timeline	Begin 2025, End 2032 (8 Years)	
Project Triggers	Funding Flood Event Water quality degradation in Cedar Ravine Creek	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality while contributing to compliance with applicable permit and/or TMDL requirements	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply through groundwater management and/or runoff capture and use	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas
The implementation of this project will help improve water quality by reestablishing the natural water drainage and treatment. Additionally, this project will help reduce flood risk, reestablish the natural hydrograph, provide employment opportunities and engage the community.		

WEST SLOPE STORMWATER RESOURCE PLAN

Appendix B Project Description Forms
 March 2018

Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project is not added to IRWM currently</u>
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one <u>Project found under the 2012-2014 DAC Places as identified by the CA Department of Water Resources</u> <input type="checkbox"/> No _____
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>Project still in conceptual phase</u>
Contact Person(s):	
Pierre Rivas, Director-Development Services Department, privas@cityofplacerville.org , 530-642-5252 Rebecca Neves, City Engineer/PE/QSD/P, rneves@cityofplacerville.org , 530-642-5250	
Key References:	
NA	
Supplemental Information (e.g., Project Webpage or equivalent):	
NA	

¹DAC = Disadvantaged Communities
 EDA = Economically Distressed Area

WEST SLOPE STORMWATER RESOURCE PLAN

Appendix B Project Description Forms
 March 2018

B.4.46 350 Debby Lane/Green Valley Road Culvert Improvement

Project/Program Name	<i>Debby Lane/Green Valley Road Culvert Improvement</i>		
Responsible Agency	City of Placerville		
Partner Agency (ies)	Caltrans		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$84,000		
Unit Cost	\$700/Linear Feet of 5' x 6' Reinforced Concrete Box, \$2,500/Cubic Yards of 6' x 6' x 1' Cast-Place-Headwall, \$4,000/EA of Drain Inlets, \$46/Linear Feet of Curb and Gutter, \$11/Square Feet of Sidewalk, \$75/Linear Feet of Guard Rail, \$96/Ton of Asphalt Concrete Paving, \$62/Ton of Aggregate Base		
Site Coordinates	Latitude: 38.727619°	Longitude: -120.838272°	
Description			
The existing culvert is beyond its service life, and too narrow to meet current roadway design standards. Settling can also be observed on Green Valley Road at the culvert. The proposed project will remove and replace the culvert, bring existing settling roadway back up to grade, and improve pedestrian access. The existing culvert is a 60-inch corrugated metal pipe, it's poorly built and corroded. The culvert would be replaced with a 5'x6' box culvert.			
Component			
Stormwater Management			
Potential Challenges			
The new culvert could require hydraulic modelling to properly size prior to replacement. Funding source not yet identified.			
Conceptual GIS Map of Site			

WEST SLOPE STORMWATER RESOURCE PLAN

Appendix B Project Description Forms
March 2018



ID 350 - Debby Lane/Green Valley Road Culvert Improvement

Project Type

● Stormwater Management

■ Linear Project Limits

■ Project Limits

Project Component:
Stormwater Management
Latitude: 38.727619
Longitude: -120.838272



0 100 200 Feet

Projection: CA SP II NAD83
Background: NAIP (2016)
Prepared: January, 2018

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WEST SLOPE STORMWATER RESOURCE PLAN

Appendix B Project Description Forms
March 2018

Purpose(s)		Key Stakeholders
<input type="checkbox"/> Improve in-stream water quality <input type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input checked="" type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		City of Placerville, Caltrans
Stage of Development		
<input checked="" type="checkbox"/> Conceptual <input type="checkbox"/> Planning <input type="checkbox"/> Pre-Design <input type="checkbox"/> Design <input type="checkbox"/> Construction <input type="checkbox"/> Other		
Expected Project Timeline	Begin 2020, End 2022 (3 Years)	
Project Triggers	Funding Flood Event A frontage improvement project on Green Valley Road.	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program U.S. Department of Transportation (DOT) - Transportation Investment Generating Economic Recovery (TIGER) Discretionary Grant Program		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas

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Appendix B Project Description Forms
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The implementation of this project will help improve water quality by reestablishing the natural water drainage and treatment. Additionally, this project will help reduce flood risk, reestablish the natural hydrograph, provide employment opportunities and engage the community.	
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, not added to IRWM currently</u>
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one <u>Project found under the 2012-2014 DAC Places as identified by the CA Department of Water Resources</u> <input type="checkbox"/> No _____
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, no environmental documentation is completed yet</u>
Contact Person(s):	
Pierre Rivas, Director-Development Services Department, privas@cityofplacerville.org, 530-642-5252 Rebecca Neves, City Engineer/PE/QSD/P, rneves@cityofplacerville.org, 530-642-5250	
Key References:	
NA	
Supplemental Information (e.g., Project Webpage or equivalent):	
NA	

¹DAC = Disadvantaged Communities
 EDA = Economically Distressed Area

WEST SLOPE STORMWATER RESOURCE PLAN

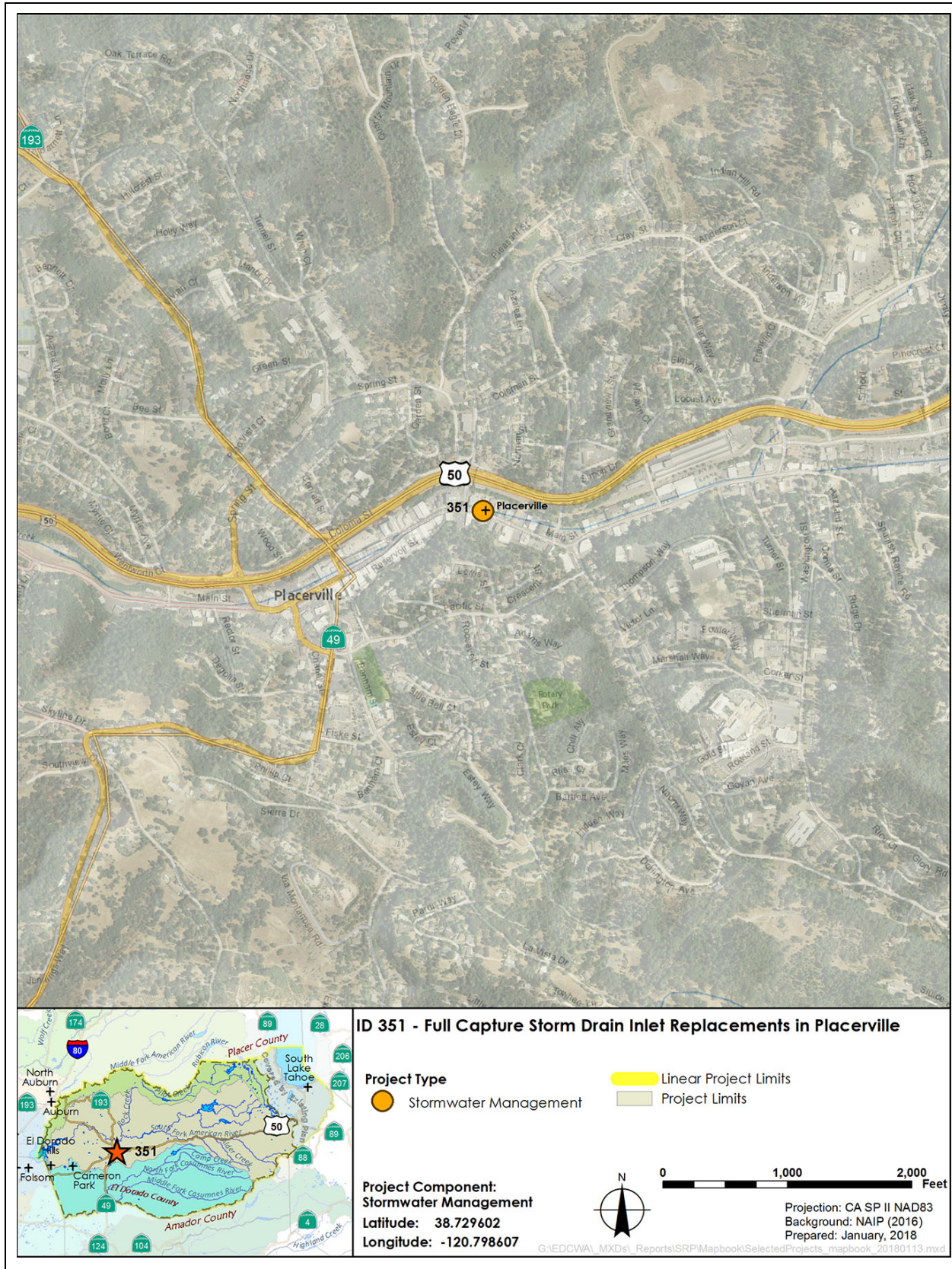
Appendix B Project Description Forms
 March 2018

B.4.47 351 Full Capture Storm Drain Inlet Replacements in Placerville

Project/Program Name	<i>Full Capture Storm Drain Inlet Replacements in Placerville</i>		
Responsible Agency	City of Placerville		
Partner Agency (ies)	Caltrans		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: Cost not calculated due to conceptual nature of project.		
Unit Cost	NA		
Site Coordinates	Latitude: 38.729602°	Longitude: -120.798607°	
Description			
Proposed project will remove approximately 1,500 drain inlet structures throughout the City and replace with full capture inlet structures which will help to prevent trash from flowing to the local creek.			
Component			
Stormwater Management			
Potential Challenges			
Would require work at hundreds of locations throughout the City. High cost to install new inlets. High maintenance and more likely to clog than standard inlets.			
Conceptual GIS Map of Site			

WEST SLOPE STORMWATER RESOURCE PLAN

Appendix B Project Description Forms
March 2018



WEST SLOPE STORMWATER RESOURCE PLAN

Appendix B Project Description Forms
March 2018

Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input checked="" type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		City of Placerville, Caltrans
Stage of Development		
<input checked="" type="checkbox"/> Conceptual <input type="checkbox"/> Planning <input type="checkbox"/> Pre-Design <input type="checkbox"/> Design <input type="checkbox"/> Construction <input type="checkbox"/> Other		
Expected Project Timeline	Begin 2025, End 2029 (5 Years)	
Project Triggers	Funding	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program U.S. Environmental Protection Agency (EPA) - Clean Water State Revolving Fund (CWSRF)		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas
<p>The implementation of this project will help improve water quality by reducing non-point source pollution. Additionally, this project will help reduce flood risk, provide employment opportunities and engage the community.</p>		

WEST SLOPE STORMWATER RESOURCE PLAN

Appendix B Project Description Forms
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Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, not added to IRWM currently</u>
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one <u>Project found under the 2012-2014 DAC Places as identified by the CA Department of Water Resources</u> <input type="checkbox"/> No _____
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, no environmental documentation is completed yet</u>
Contact Person(s):	
Pierre Rivas, Director-Development Services Department, privas@cityofplacerville.org , 530-642-5252 Rebecca Neves, City Engineer/PE/QSD/P, rneves@cityofplacerville.org , 530-642-5250	
Key References:	
NA	
Supplemental Information (e.g., Project Webpage or equivalent):	
NA	

¹DAC = Disadvantaged Communities
 EDA = Economically Distressed Area

WEST SLOPE STORMWATER RESOURCE PLAN

Appendix B Project Description Forms
March 2018

B.4.48 352 Lions Park Drainage Improvement

Project/Program Name	<i>Lions Park Drainage Improvement</i>		
Responsible Agency	City of Placerville (Public Works Project)		
Partner Agency (ies)	Caltrans		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$77,000		
Unit Cost	\$75/Linear Feet of 36-inch Storm Drain Pipe, \$5,000/EA of 3' x 3' Drain Inlet, \$46/Linear Feet of Curb & Gutter, \$11/Square Feet of Sidewalk, \$35/Lineal Feet of 12-inch Trench Drain		
Site Coordinates	Latitude: 38.718062°	Longitude: -120.775159°	
Description			
<p>The proposed project is set to occur at Lion's Park. In completing the project, flooding events will be reduced in the park by improved storm water control that will occur by installing approximately 375 LF of a 36" Culvert, drain inlets and other flood control structures. The following is a detailed description of the materials that are to be used.</p> <p>375' of 36" Culvert Pipe Smooth Wall HTPE 36" X 36" Catch Basin 40' 12" Trench Drain 75' Curb, Gutter, Sidewalk</p>			
Component			
Stormwater Management			
Potential Challenges			
Funding Construction Schedule within a Public Park			
Conceptual GIS Map of Site			

WEST SLOPE STORMWATER RESOURCE PLAN

Appendix B Project Description Forms
 March 2018



ID 352 - Lions Park Drainage Improvement

Project Type

Stormwater Management

Linear Project Limits

Project Limits

Project Component:
 Stormwater Management
Latitude: 38.718062
Longitude: -120.775159



0 300 600 Feet

Projection: CA SP II NAD83
 Background: NAIP (2016)
 Prepared: January, 2018

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WEST SLOPE STORMWATER RESOURCE PLAN

Appendix B Project Description Forms
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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input checked="" type="checkbox"/> Improve local water supply reliability <input checked="" type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		City of Placerville, Caltrans
Stage of Development		
<input checked="" type="checkbox"/> Conceptual <input type="checkbox"/> Planning <input type="checkbox"/> Pre-Design <input type="checkbox"/> Design <input type="checkbox"/> Construction <input type="checkbox"/> Other		
Expected Project Timeline	Begin 2020, End 2020 (1 Year)	
Project Triggers	Traffic and Pedestrian Safety – Facility Damage	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas

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The implementation of this project will help reduce flood risk, reestablish the natural hydrograph, provide employment opportunities and engage the community.	
Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, not added to IRWM currently</u>
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one <u>Project found under the 2012-2014 DAC Places as identified by the CA Department of Water Resources</u> <input type="checkbox"/> No _____
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, no environmental documentation is completed yet</u>
Contact Person(s):	
Pierre Rivas, Director-Development Services Department, privas@cityofplacerville.org , 530-642-5252 Rick Ferriera, Public Works Operations Manager, rferriera@cityofplacerville.org , 530-642-5242	
Key References:	
NA	
Supplemental Information (e.g., Project Webpage or equivalent):	
NA	

¹DAC = Disadvantaged Communities
 EDA = Economically Distressed Area

WEST SLOPE STORMWATER RESOURCE PLAN

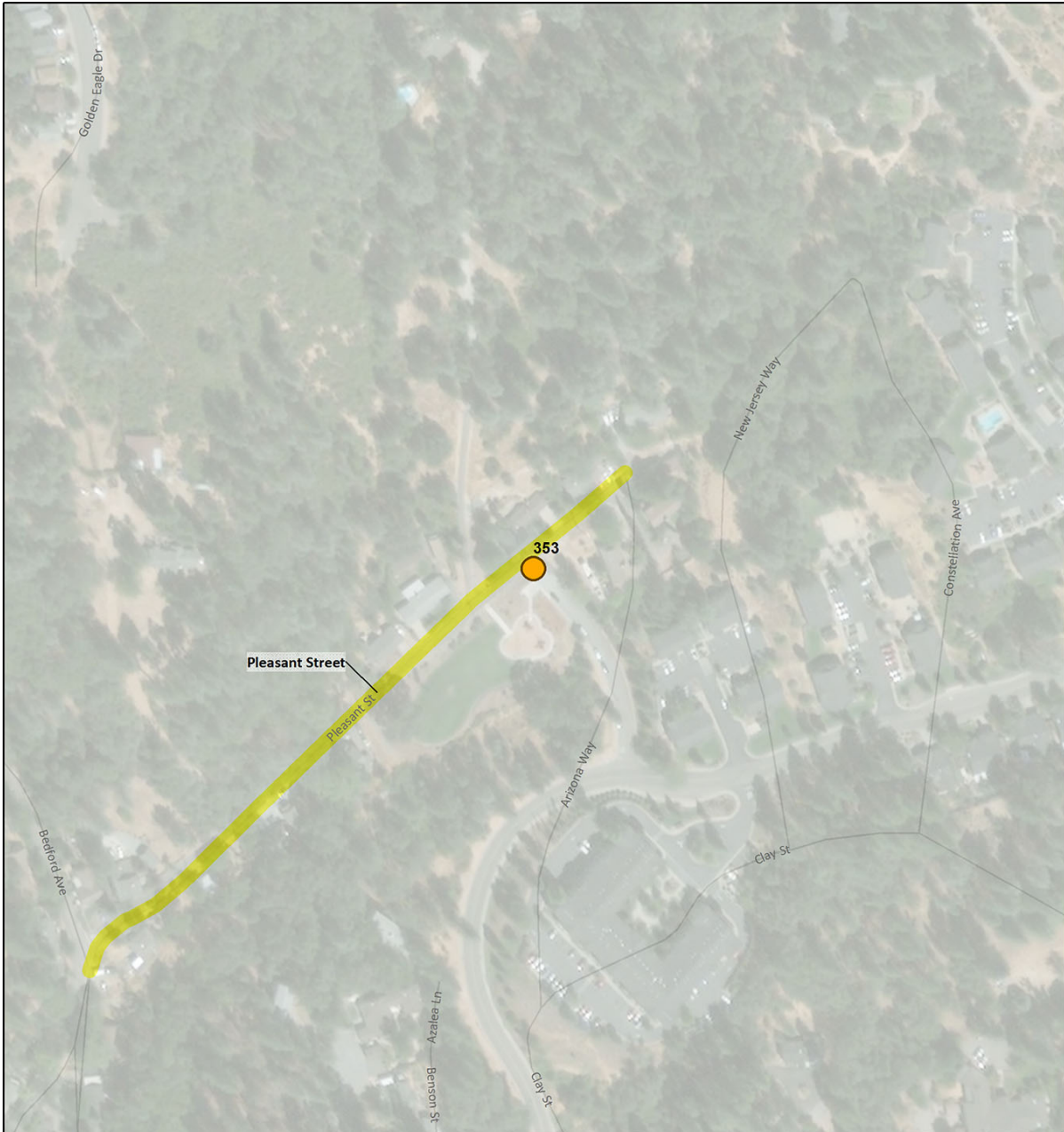
Appendix B Project Description Forms
 March 2018

B.4.49 353 Pleasant Street Storm Drain Improvement

Project/Program Name	<i>Pleasant Street Storm Drain Improvement</i>		
Responsible Agency	City of Placerville		
Partner Agency (ies)	Caltrans		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$655,000		
Unit Cost	\$270/Linear Feet of 24-inch Storm Drain Pipe, \$10,000/EA 48-inch Manhole, \$4,000/EA of Drain Inlets, \$96/Ton of Asphalt Concrete Paving, \$62/Ton of Aggregate Base		
Site Coordinates	Latitude: 38.735978°	Longitude: -120.796735°	
Description			
<p>The existing piecemeal drainage system is suspected to be in poor condition. Stormwater flows from the Cottonwood Subdivision, through Duffey Park (Clay Street and Arizona Way), through a rock-lined roadside ditch on Pleasant Street, and then under homes and other buildings. Under this project approximately 1,000 LF of new drainage main pipe is anticipated to improve drainage in the area. The proposed project will occur between Bedford Ave and Arizona Way.</p>			
Component			
Stormwater Management			
Potential Challenges			
<p>Investigation of the existing system, including video inspection and surveying, is expected to be required to determine condition and layout. Little is known about the system.</p> <p>The existing system and proposed improvement is expected to require modeling.</p>			
Conceptual GIS Map of Site			

WEST SLOPE STORMWATER RESOURCE PLAN

Appendix B Project Description Forms
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ID 353 - Pleasant Street Storm Drain Improvement

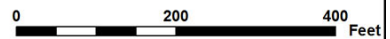
Project Type

● Stormwater Management

Linear Project Limits

Project Limits

Project Component:
 Stormwater Management
Latitude: 38.735978
Longitude: -120.796735



Projection: CA SP II NAD83
 Background: NAIP (2016)
 Prepared: January, 2018

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WEST SLOPE STORMWATER RESOURCE PLAN

Appendix B Project Description Forms
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Purpose(s)		Key Stakeholders
<input type="checkbox"/> Improve in-stream water quality <input type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input checked="" type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		City of Placerville, Caltrans
Stage of Development		
<input checked="" type="checkbox"/> Conceptual <input type="checkbox"/> Planning <input type="checkbox"/> Pre-Design <input type="checkbox"/> Design <input type="checkbox"/> Construction <input type="checkbox"/> Other		
Expected Project Timeline	Begin 2020: End 2024 (5 Years)	
Project Triggers	Flood Event Funding	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas
The implementation of this project will help reduce flood risk, reestablish the natural hydrograph, provide employment opportunities and engage the community.		

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Appendix B Project Description Forms
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Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, not added to IRWM currently</u>
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one <u>Project found under the 2012-2014 DAC Places as identified by the CA Department of Water Resources</u> <input type="checkbox"/> No _____
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, no environmental documentation is completed yet</u>
Contact Person(s):	
Pierre Rivas, Director-Development Services Department, privas@cityofplacerville.org , 530-642-5252 Rebecca Neves, City Engineer/PE/QSD/P, rneves@cityofplacerville.org , 530-642-5250	
Key References:	
NA	
Supplemental Information (e.g., Project Webpage or equivalent):	
NA	

¹DAC = Disadvantaged Communities
EDA = Economically Distressed Area

WEST SLOPE STORMWATER RESOURCE PLAN

Appendix B Project Description Forms
 March 2018

B.4.50 354 Wiltse Road Storm Drain Improvement

Project/Program Name	<i>Wiltse Road Storm Drain Improvement</i>		
Responsible Agency	City of Placerville		
Partner Agency (ies)	Caltrans		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$832,000		
Unit Cost	\$300/LF of 36-inch Storm Drain Pipe, \$10,000/EA 48-inch Manhole, \$4,000/EA of Drain Inlets, \$1,000/EA of 36-inch Flared End Section, \$96/Ton of Asphalt Concrete Paving, \$62/Ton of Aggregate Base		
Site Coordinates	Latitude: 38.729809°	Longitude: -120.778280°	
Description			
<p>Stormwater from Lumsden Park flows onto Wiltse Road overwhelming roadside ditches and driveway culverts. Some drainage pipes are suspected to be located under homes and other structures. At Martin Lane, once the culvert is overwhelmed, sheet flows over Martin Lane, through private properties to Hangtown Creek. Hangtown Creek at Wiltse Road is constricted by private property encroachments, creating a bottleneck, and contributing to poor storm drainage in the area. The replacement of Hangtown Creek culvert may be necessary but was not included in this project. The proposed project is proposed to occur from Lumsden Park to Hangtown Creek on Wiltse Road. Roadside ditch improvements on Wiltse Road at Martin Lane are proposed in a separate maintenance project called Wiltse Road at Martin Lane.</p>			
Component			
Stormwater Management			
Potential Challenges			
<p>Investigation of the existing system, including video inspection and surveying, is expected to be required to determine condition and layout. Little is known about the system.</p> <p>The existing system and proposed improvement is expected to require modeling.</p>			
Conceptual GIS Map of Site			

WEST SLOPE STORMWATER RESOURCE PLAN

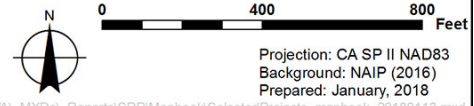
Appendix B Project Description Forms
March 2018



ID 354 - Wiltse Road Storm Drain Improvement

- Project Type**
- Stormwater Management
 - Linear Project Limits
 - Project Limits

Project Component:
Stormwater Management
Latitude: 38.729809
Longitude: -120.77828



Projection: CA SP II NAD83
Background: NAIP (2016)
Prepared: January, 2018

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WEST SLOPE STORMWATER RESOURCE PLAN

Appendix B Project Description Forms
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Purpose(s)		Key Stakeholders
<input type="checkbox"/> Improve in-stream water quality <input type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input checked="" type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		City of Placerville, Caltrans
Stage of Development		
<input checked="" type="checkbox"/> Conceptual <input type="checkbox"/> Planning <input type="checkbox"/> Pre-Design <input type="checkbox"/> Design <input type="checkbox"/> Construction <input type="checkbox"/> Other		
Expected Project Timeline	Begin 2020, End 2024 (5 Years)	
Project Triggers	Flood Event Funding	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas
The implementation of this project will help reduce flood risk, reestablish the natural hydrograph, provide employment opportunities and engage the community.		

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Appendix B Project Description Forms
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Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, not added to IRWM currently</u>
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one <u>Project found under the 2012-2014 DAC Places as identified by the CA Department of Water Resources</u> <input type="checkbox"/> No _____
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, no environmental documentation is completed yet</u>
Contact Person(s):	
Pierre Rivas, Director-Development Services Department, privas@cityofplacerville.org , 530-642-5252 Rebecca Neves, City Engineer/PE/QSD/P, rneves@cityofplacerville.org , 530-642-5250	
Key References:	
NA	
Supplemental Information (e.g., Project Webpage or equivalent):	
NA	

¹DAC = Disadvantaged Communities
 EDA = Economically Distressed Area

WEST SLOPE STORMWATER RESOURCE PLAN

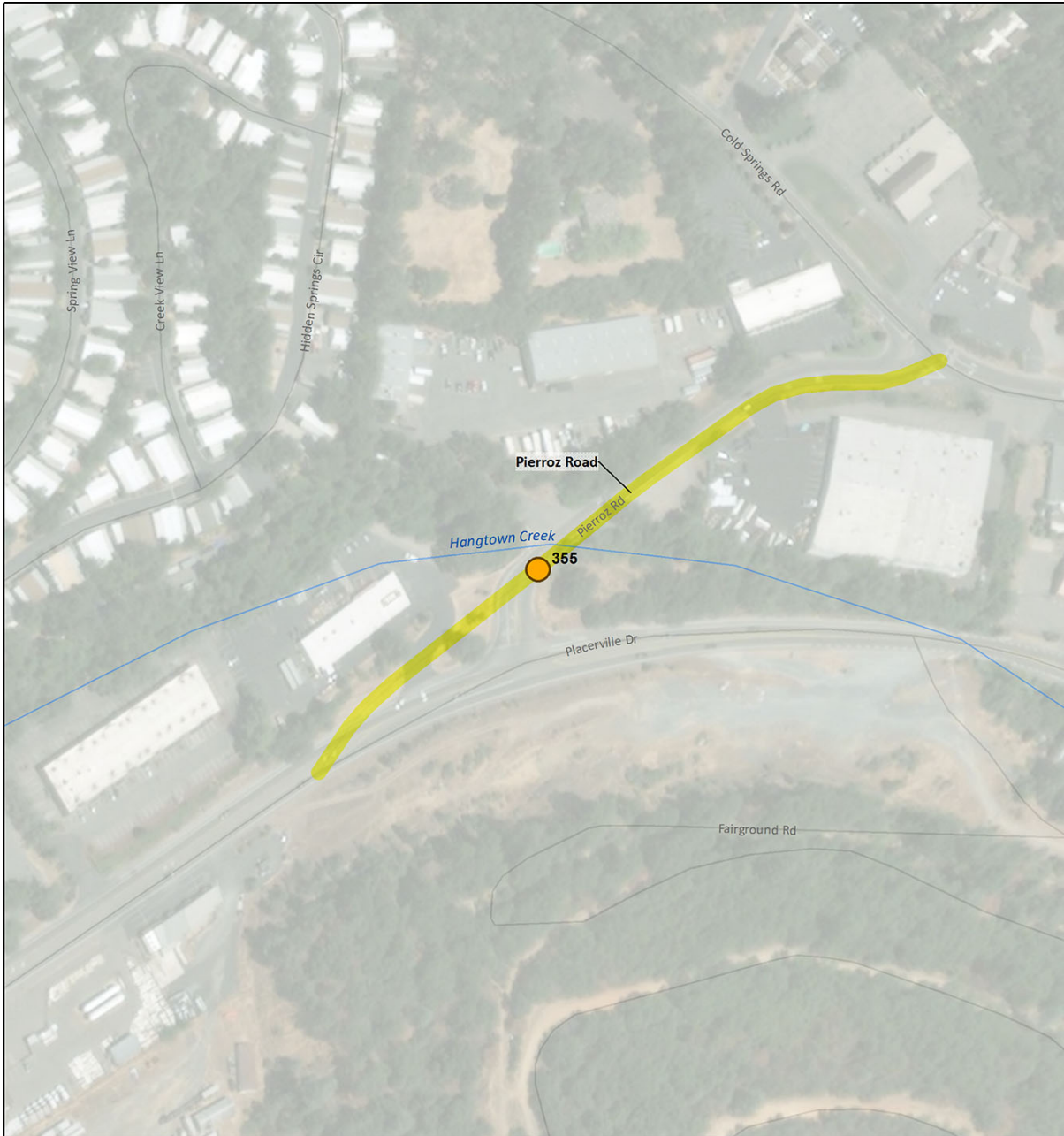
Appendix B Project Description Forms
 March 2018

B.4.51 355 Pierroz Road at Hangtown Creek, Drainage Improvement

Project/Program Name	<i>Pierroz Road at Hangtown Creek, Drainage Improvement</i>		
Responsible Agency	City of Placerville		
Partner Agency (ies)	Caltrans		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$103,000		
Unit Cost	\$46/LF of V-Ditch, \$96/Ton of Asphalt Concrete Paving, \$4,000/LS of Striping, \$4,000/LS of Raise Valve Boxes, \$46/LF of Type "A" AC Curb		
Site Coordinates	Latitude: 38.733817°	Longitude: -120.829922°	
Description			
<p>The proposed project is set to improve the drainage conditions on Pierroz Rd near Hangtown Creek. This project will improve public safety by upgrading the existing storm drain system to help prevent the flooding of the public roadway. The following material will be used for the project.</p> <p>Catch Basin (36"X36") to existing 36" culvert. Sewer Lift Station ½ horse grinder pump package system 93' Curb, Gutter and Sidewalk Drive Entrance with Curb Returns – 12' X 93' of 3"over 8" AB 80' of 36" HTPPE Pipe Clear/Grub/Backfill 200 yards of soil 180' of V-Ditch</p>			
Component			
Stormwater Management			
Potential Challenges			
Funding			
Traffic disruption during the period of the project implementation			
Conceptual GIS Map of Site			

WEST SLOPE STORMWATER RESOURCE PLAN

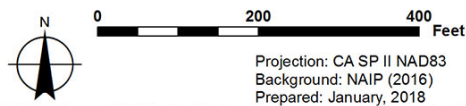
Appendix B Project Description Forms
 March 2018



ID 355 - Pierroz Road at Hangtown Creek Drainage Improvement

- Project Type**
-  Stormwater Management
 -  Linear Project Limits
 -  Project Limits

Project Component:
 Stormwater Management
 Latitude: 38.733817
 Longitude: -120.829922



Projection: CA SP II NAD83
 Background: NAIP (2016)
 Prepared: January, 2018

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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input checked="" type="checkbox"/> Improve local water supply reliability <input checked="" type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		City of Placerville, Caltrans
Stage of Development		
<input type="checkbox"/> Conceptual <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Pre-Design <input type="checkbox"/> Design <input type="checkbox"/> Construction <input type="checkbox"/> Other		
Expected Project Timeline	Begin 2020, End 2020 (1 Year)	
Project Triggers	Public Safety and Property Damage	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program		
Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas
The implementation of this project will help reduce flood risk, reestablish the natural hydrograph, provide employment opportunities and engage the community.		

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Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, not added to IRWM currently</u>
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one <u>Project found under the 2012-2014 DAC Places as identified by the CA Department of Water Resources</u> <input type="checkbox"/> No _____
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, no environmental documentation is completed yet</u>
Contact Person(s):	
Pierre Rivas, Director-Development Services Department, privas@cityofplacerville.org, 530-642-5252 Rick Ferriera, Public Works Operations Manager, rferriera@cityofplacerville.org, 530-642-5242	
Key References:	
NA	
Supplemental Information (e.g., Project Webpage or equivalent):	
NA	

¹DAC = Disadvantaged Communities
 EDA = Economically Distressed Area

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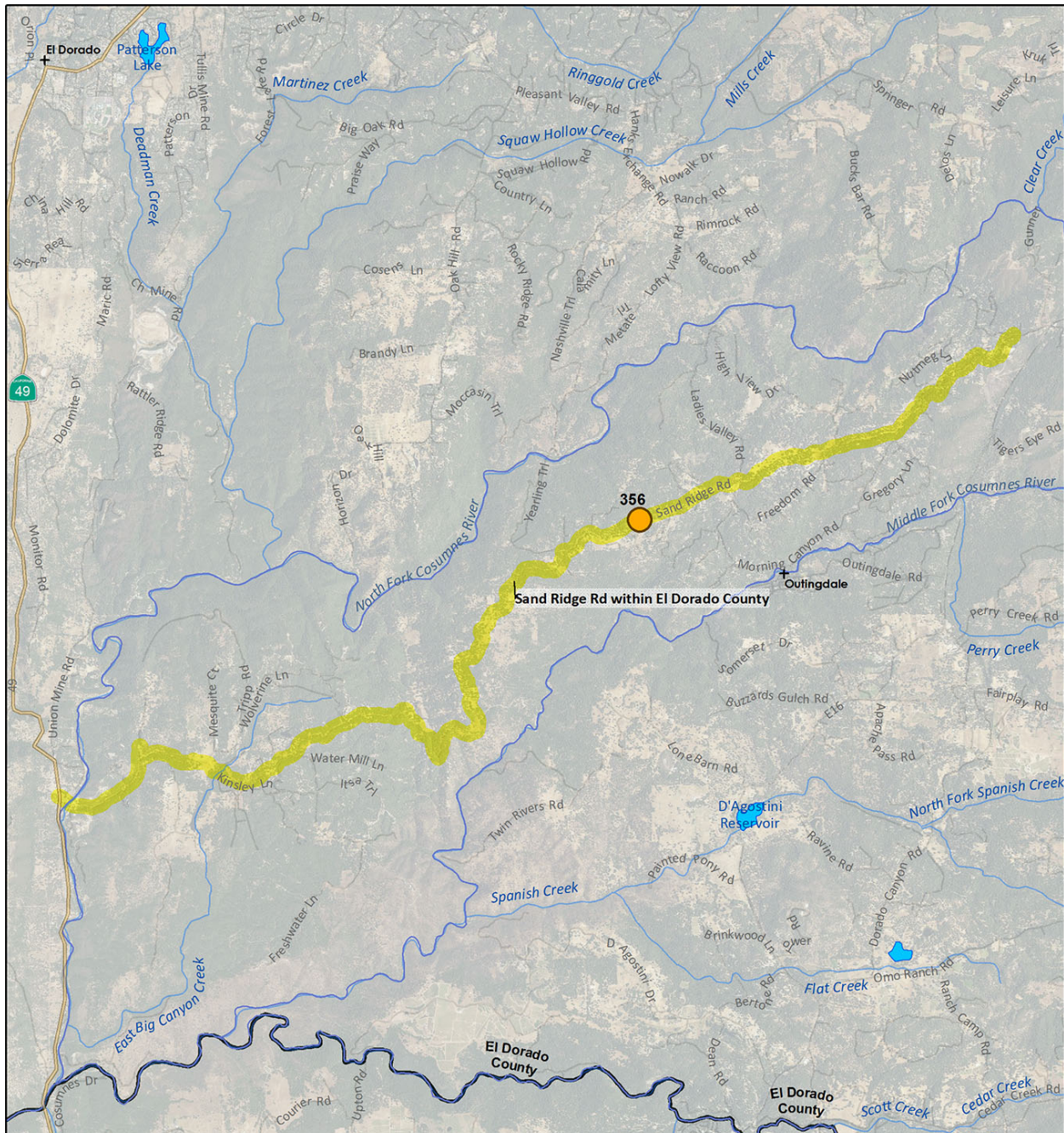
Appendix B Project Description Forms
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B.4.52 356 Sand Ridge Road Paving

Project/Program Name	<i>Sand Ridge Road Paving</i>		
Responsible Agency	El Dorado County- Community Development Services		
Partner Agency (ies)	NA		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$266,753.98		
Unit Cost	NA		
Site Coordinates	Latitude: 38.624004°	Longitude: -120.752179°	
Description			
<p>This is an urban roadway project aimed at improving water quality along the paved and unpaved areas on Sand Ridge Road. In including the unpaved portion of the road in the project, water quality in the Middle Fork Cosumnes River will be improved. The project limits are set to occur from near the intersection of Sand Ridge and Willow Glen and extends just past 1615 Sand Ridge Rd (61,606 ft-Google Earth Approximation).</p> <p>The proposed project will rely on the wetlands, if possible, found in close proximity to treat and infiltrate stormwater runoff. If possible areas that do not have access to a wetland will include grass swales or grass filter stripes along Sand Ridge Rd. Since a portion of Sand Ridge Rd was affected by the Sand Fire, fire restoration along the road will also be done. Restoration efforts along the road will include planting vegetation and trees. Low impact development (LID) approaches will be applied for this project.</p> <p>This project ties in with the Sand Fire Watershed Restoration & Reforestation Project.</p>			
Component			
Stormwater Management			
Potential Challenges			
Funding			
Conceptual GIS Map of Site			

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ID 356 - Sand Ridge Road Paving

Project Type

- Linear Project Limits (Yellow line)
- Stormwater Management (Yellow circle)
- Project Limits (Light yellow shaded area)

Project Component:
Stormwater Management

Latitude: 38.624004
Longitude: -120.752179

0 6,500 13,000 Feet

Projection: CA SP II NAD83
Background: NAIP (2016)
Prepared: February, 2018

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Purpose(s)		Key Stakeholders
<input checked="" type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		El Dorado County- Community Development Services
Stage of Development		
<input checked="" type="checkbox"/> Conceptual <input type="checkbox"/> Planning <input type="checkbox"/> Pre-Design		<input type="checkbox"/> Design <input type="checkbox"/> Construction <input type="checkbox"/> Other
Expected Project Timeline	Begin: 2019, End: 2020	
Project Triggers	Funding opportunities	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Clean Water State Revolving Fund Program (CWSRF)		

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Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas

Project will provide road improvements, prevent erosion, contribute towards fire restoration efforts, and improve stormwater runoff quality. By using wetlands, grass swales, and grass filter stripes stormwater runoff will be treated, infiltrated, and nonpoint source pollution will be reduced. The local environment and habitats will be improved and this project will provide short term employment opportunities. The community will be engaged in this project.

Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, not added to IRWM currently</u>
Project Benefits a DAC/EDA: ¹	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No _____
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>project is in conceptual stage, no environmental documentation is completed yet</u>

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Contact Person(s):
Brendan Ferry, El Dorado County Principal Planner, brendan.ferry@edcgov.us , (530) 573-7905
Key References:
NA
Supplemental Information (e.g., Project Webpage or equivalent):
NA

¹DAC = Disadvantaged Communities
EDA = Economically Distressed Area

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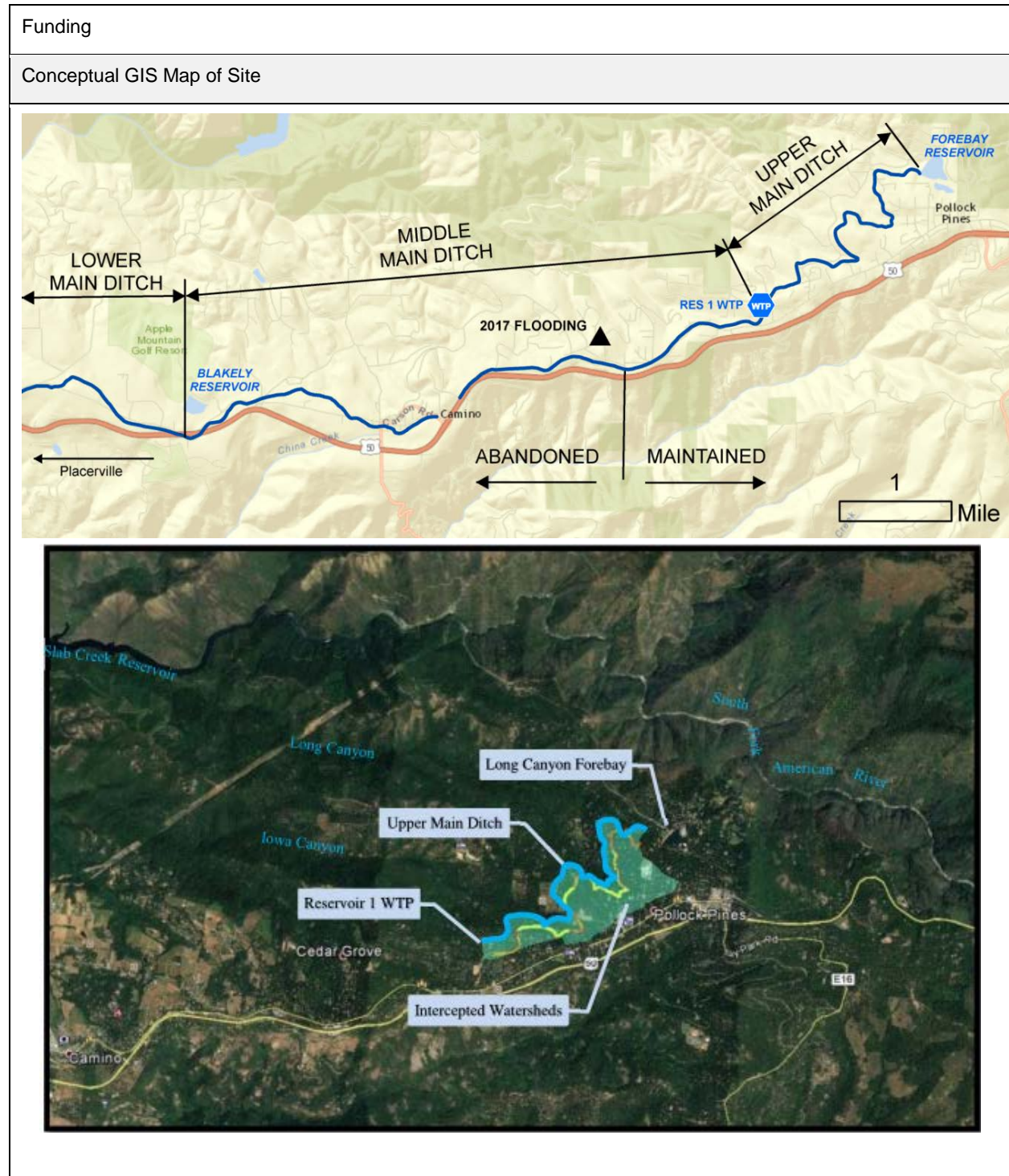
Appendix B Project Description Forms
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B.4.53 357 Upper Main Ditch Stormwater Improvements

Project/Program Name	<i>Upper Main Ditch Stormwater Improvements</i>		
Responsible Agency	El Dorado Irrigation District		
Partner Agency (ies)	El Dorado County Water Agency		
Net Yield	Normal Year: NA	Wet Year: NA	Dry Year: NA
Estimated Cost	Capital: \$600,000		
Unit Cost	NA		
Site Coordinates	Latitude: 38.766335°	Longitude: -120.597096°	
Description			
<p>The Upper Main Ditch (UMD) is approximately 3 miles in length. In addition to carrying El Dorado Irrigation District's (EID) 15,080 acre-feet water supply diverted from Forebay Reservoir, it intercepts approximately 378 acres of the Long Canyon and Iowa Canyon watersheds. Although it was not designed, and is not operated, as a Stormwater conveyance facility, due to its location, runoff from the watersheds upslope of the UMD is captured and conveyed by the ditch to the Res 1 Water treatment plant. During the diversion season (typically spring, summer and fall) the Stormwater, if any, is taken into the plant along with the diverted water. Beginning on October 1st the Res 1 Water Treatment Plant (WTP) is typically taken off line to facilitate maintenance activities, above Forebay Reservoir, within EID's hydroelectric project. The regularly scheduled winter outage can be from one to six months during which time intercepted Stormwater travels past the Res 1 WTP to abandoned portions of the downstream Middle Main Ditch (MMD). In some wet years when spring water demand is low, the Res 1 WTP remains offline even after scheduled maintenance is completed as demand can be met by an alternate WTP.</p> <p>Since EID abandoned the Middle and Lower Main Ditch circa 2005, Stormwater conveyance capacity has slowly been compromised by accumulated vegetation and property owners dumping yard waste, fill and other debris into the ditch. In January of 2017 during back to back high intensity, long duration precipitation events, flooding occurred as a result of a property owner completely filling in the ditch, presumably to reclaim a portion of his land. Because EID has abandoned the MMD and no longer has jurisdiction to perform maintenance within the ditch, it was left to the property owner to remove the blockage. After several additional storm events and subsequent flooding, the property owner finally cleared the ditch so Stormwater could be conveyed past the blockage. EID received numerous complaints, allegations and claims of private property damage as a result of the flooding. El Dorado County, the county Stormwater management authority also received many complaints.</p> <p>Expected Outcome</p> <p>EID is currently in the design phase of replacing the UMD with a pipeline. EID has been considering two pipeline alignments; one within the existing ditch alignment and one in Blair Road with portions of the pipeline within the ditch alignment. Both would leave the ditch intact to continue to intercept storm runoff and convey it past the Res 1 WTP. Considering recent flooding and the long term potential for repeated blockages of abandoned portions of the MMD ditch, EID has investigated how it might eliminate Stormwater collected in the UMD from making its way past the Res 1 WTP to the abandoned MMD. This can be done by either: breaching the down slope ditch berm at the natural drainage courses and diverting water out of the ditch; or filling in the ditch or removing the down slope ditch berm which would cause Stormwater to sheet flow over the ditch to the natural drainage courses. Both options direct Stormwater back to historic drainage patterns but would require downstream improvements including upsizing four culverts that cross Blair Road and some channel armoring to limit erosion.</p>			
Component			
Stormwater Management			
Potential Challenges			

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Purpose(s)		Key Stakeholders
<input type="checkbox"/> Improve in-stream water quality <input checked="" type="checkbox"/> Improve health of local watersheds <input type="checkbox"/> Improve local water supply reliability <input checked="" type="checkbox"/> Implement & monitor a reliable stormwater system <input type="checkbox"/> Increase climate resilience <input type="checkbox"/> Increase community awareness for sustainable water		El Dorado County El Dorado County Water Agency
Stage of Development		
<input type="checkbox"/> Conceptual <input checked="" type="checkbox"/> Planning <input checked="" type="checkbox"/> Pre-Design <input type="checkbox"/> Design <input type="checkbox"/> Construction <input type="checkbox"/> Other		
<p>A drainage study has been completed to identify Stormwater flow and culvert location and sizing.</p>		
Expected Project Timeline	Begin: 2021, End: 2022	
Project Triggers	Funding availability, additional flooding	
Potentially Applicable Federal and State Programs for Technical and Financial Assistance		
California Environmental Protection Agency - State Water Resources Control Board (SWRCB) - Stormwater Grant Program		

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Stormwater Multi-Benefits (per SWRP Guidelines Table 4):		
■ Primary ■ Opportunity (highlight applicable cells and provide justification below table)		
Benefit Category	Main Benefit	Additional Benefit
Water Quality <i>while contributing to compliance with applicable permit and/or TMDL requirements</i>	Increased filtration and/or treatment of runoff	Nonpoint source pollution control
		Reestablished natural water drainage and treatment
Water Supply <i>through groundwater management and/or runoff capture and use</i>	Water supply reliability	Water conservation
	Conjunctive use	
Flood Management	Decrease flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows
Environmental	Environmental and habitat protection and improvement including: -Wetland enhancement/creation; -Riparian enhancement; and/or -Instream flow improvement	Reduced energy use, GHG emission, or provides a carbon sink
		Reestablishment of the natural hydrograph
	Increased urban green space	Water temperature improvements
Community	Employment opportunities provided	Community involvement
	Public education	Enhance and/or create recreational and public use areas

The implementation of this project will improve local water quality conditions as non-point source pollution will be reduced at a local scale, the natural water drainage and treatment will be reestablished, flood risk will be reduced, local environmental conditions will be improved, the natural hydrograph will be reestablished, and short term employment opportunities will be provided. In addition, this project will contain a public education aspect as well as have community engagement from the locals, EDCWA and EID.

Project Included in IRWM:	<input type="checkbox"/> Yes, which one _____ <input checked="" type="checkbox"/> No, explain <u>To be included in CABY IRWM</u>
Project Benefits a DAC/EDA: ¹	<input checked="" type="checkbox"/> Yes, which one <u>Project benefits DAC Tracts 2010-2014 as identified by the CA Department of Water Resources</u> <input type="checkbox"/> No _____
CEQA Compliance:	<input type="checkbox"/> Yes, explain _____ <input checked="" type="checkbox"/> No, explain <u>To be completed</u>

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March 2018

Contact Person(s):
Brian Mueller, Director of Engineering, El Dorado Irrigation District, bmueller@eid.org, (530) 642-4029
Key References:
NA
Supplemental Information (e.g., Project Webpage or equivalent):
http://www.eid.org/about-us/project-updates/forebay-dam-project/main-ditch-updates-and-documents

¹DAC = Disadvantaged Communities
EDA = Economically Distressed Area

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