

1.4 Project Consistency with an adopted IRWM Plan

As mentioned previously, the RWMG adopted the updated Kern IRWM Plan on January 23, 2012. The original prioritized project list was prepared in July 2009. The Governance structure allows the RWMG and participants to update the project list on a more frequent basis without having to re-adopt the entire Plan document. This project list update is typically scheduled every one to two years.

In order to have sufficient time for conducting the project prioritization process for grant funding in 2015, the RWMG issued a new call for projects in April 2015 with a due date of May 4. Two of the proposed projects in this application, the GHCSO and LOWMWC Projects, were submitted in accordance with the Project Submittal Form requirements and were received prior to this due date for inclusion in the Kern IRWM Plan. The BVWSD Project was on the original project list prepared in July 2009.

After the receipt of the new project submittal forms, each subregion (see **Figure 1.1-2**) was tasked with scoring the projects within their subregion using the Tier I scoring criteria as defined in the Project Prioritization Process of the Kern IRWM Plan (Section 12.1). Tier I prioritization is primarily based on how well the project meets the Kern IRWM Plan objectives (see **Table 1.4-1**). The subregions were required to submit their scored projects, including their top five projects, to the Executive Committee. The top five projects from each subregion were used to create the high priority list. Consistent with the Kern IRWMP project prioritization process, the remaining projects were sorted into the medium and low priority lists based on their scores.

On June 1, the Executive Committee met to score the high priority project list using the Tier II scoring criteria, which is primarily based on the project's readiness to proceed and whether the project meets the grant program criteria. Based on the Tier II scores, the three (3) projects in this Grant Application were selected by the Executive Committee (see **Appendix 1.4-A**).

These multi-benefit projects help address various water supply issues within the Kern IRWM Region. Taken together, these projects will achieve several of the Kern Region IRWM Plan objectives and increase cooperation and integration by multiple parties on long-standing local resource issues. The projects and proponents are listed in **Table 1.4-1** along with and Kern IRWM Plan objectives they address.

Table 1.4-1: Kern IRWM Plan Objectives Addressed by Projects

Kern IRWM Plan Objectives	BVWSD - The Palms Groundwater Recharge and Recovery Project	GHCSO - Antelope Conjunctive Use Project (Steuber Phase)	LOWMWC - Water Main Replacement & Meter Install Project
Increase Water Supply (WS)			
Through cooperation and collaboration with other regions restore water supplies to levels that will mitigate for water lost from the Region and eliminate overdraft	X	X	
Pursue and implement cost effective water use efficiency programs	X		X
Increase water storage capacity in the region by increasing recharge acreage and expanding groundwater banking programs before all prime recharge land has been developed 8,000 recharge acres as soon a practicable	X	X	
Integrate management of water banking facilities to maximize conjunctive use over the planning horizon	X	X	
Increase/augment water supplies to meet region demands (e.g., M&I, agricultural, environmental) by 2050.	X	X	X
Improve Operational Efficiency (OE)			
Increase transfers and exchanges flexibility over the planning horizon	X		
Create tools to re-regulate water supplies within the region, including storage, storm flows, and operational flows over the planning horizon	X		
Increase distribution efficiencies and reduce energy usage over the planning horizon		X	X
Optimize local management of water resources to improve water supply reliability over the planning horizon	X	X	X
Replace aging infrastructure to reduce system water losses, improve operational efficiencies, and reduce service interruptions		X	X
Optimize local management of water resources to improve water supply reliability over the planning horizon		X	X
Improve Water Quality (WQ)			
Identify and preserve prime recharge areas in the Kern fan area and other areas			
Improve water quality for DACs and the watershed over the planning horizon		X	X
Continue to provide drinking water that meets or exceeds water quality standards; and support efforts to attain appropriate standards throughout the planning horizon		X	X
Promote Land Use Planning and Resource Stewardship (LU)			
Increase educational opportunities to improve public awareness of water supply, conservation, and water quality issues throughout the planning horizon		X	X
Improve the linkage between land use planning and water supply in the region throughout the planning horizon		X	X

Kern IRWM Plan Objectives	BVWSD - The Palms Groundwater Recharge and Recovery Project	GHCSO - Antelope Conjunctive Use Project (Steuber Phase)	LOWMWC - Water Main Replacement & Meter Install Project
Improve and coordinate integrated land use planning to support stewardship of environmental resources, such as local rivers and streams and the Kern Fan, and integrate with habitat conservation plans and other ongoing planning efforts from this point forward	X		
Preserve and improve ecosystem/watershed health throughout the planning horizon	X	X	
Improve Regional Flood Management (FM)			
Improve regional flood management by addressing preparedness, response, and post flood actions throughout the planning horizon	X		
Identify and promote innovative flood management projects to protect vulnerable areas			
Plan new developments to minimize flood impacts from this point forward			

Kern IRWM Group
Project Prioritization List
2015 Tier 2 Prioritization

Form #	Subregion	Project Applicant	Title	Tier 2 Prioritization					2015 IRWM Grant				
				Tier 2 Score	Project Cost Low **	Project Cost High	Project Scale	Cost Share	Benefits***	DAC	CASGEM Comp.	Human Right to Water	Max. Grant Request
MF-7	Mountains/Foothills	Golden Hills Community Services District	Groundwater Conjunctive Use Project - Phase 2	31		\$ 1,330,000	N	Y	WS, Delta, Energy/GHG	?			\$ 998,000
KF-5	Kern Fan	Buena Vista Water Storage District	Groundwater Recharge and Recovery Project	31	\$ 900,000	\$ 1,500,000	Y	Y	WS, Habitat, Delta, FC				\$ 1,110,000
CK-13	County of Kern	Lake of the Woods MWC (County of Kern)	Lake of the Woods Emergency Water Distribution System Replacement & Meter Installation	25	\$ 1,027,000	\$ 3,000,000	Y	N/A	WS, WQ, Energy/GHG	Y	*	Y	\$ 1,940,000
KF-2	Kern Fan	Kern Water Bank Authority	Kern Water Bank Short-Term Storage Program	32		\$ 400,000	N	Y	WS, Habitat, Energy/GHG, Delta				
KF-1	Kern Fan	Kern Water Bank Authority	Kern Water Bank Recharge and Recovery Enhancement Project	32		\$ 2,000,000	Y	Y	WS, Habitat, Energy/GHG, Delta, FC				
KR-4	Kern River Valley	Desert Mountain Resources Conservation and Development Council	Eradication of Invasive Weeds in the Kern River Valley and Walker Basin	31	\$ 50,000	\$ 65,000	Y	N	Habitat, WS, FC	Y	?		
KF-3	Kern Fan	Buena Vista Water Storage District	Brackish Groundwater Remediation Project	31	\$ 1,000,000	\$ 7,198,000	Y	Y	WQ, WS, Energy				
KF-4	Kern Fan	Buena Vista Water Storage District	Conservation Easement Water Acquisition and Management Project	31	\$ 500,000	\$ 1,000,000	Y	Y	Habitat, WS,				
CK-1	County of Kern	County of Kern	South Shafter Sewer	29		\$ 3,501,990	N		WQ	Y	N	?	
KR-1	Kern River Valley	County of Kern	Weldon Regional Water Project	29		\$ 4,500,000	Y		WS, WQ	Y	N	?	
SC-8	South County	Arvin-Edison Water Storage District	In-Lieu Banking Program	29	\$ 1,000,000	\$ 7,122,581	Y	Y	WS, Delta, FC, Energy/GHG				
WS-2	Westside	Berrenda Mesa Water District	Westside Districts' Groundwater Banking Project	29		\$ 16,000,000	Y	Y	WS, Habitat, Energy/GHG, Delta, FC		N		
GB-7	Greater Bakersfield	Kern Delta Water District	Kern Delta / ID4 Cross River Pipeline	29		\$ 4,000,000			WS, WQ, Energy/GHG				
MF-1	Mountains/Foothills	County of Kern	GHSC Force Main Project	28		\$4,200,000			WQ	Y	N	Y	
MF-5	Mountains/Foothills	Tehachapi-Cummings County Water District	Cummings Basin Recharge Project	28		\$ 1,500,000			WS, Habitat, Energy/GHG, Delta				
SC-11	South County	Arvin-Edison Water Storage District	Improved Stormwater Management and Flood Control	28	\$ 1,000,000	\$ 10,000,000	Y	Y	WS, FC	Y			
SC-7	South County	Arvin-Edison Water Storage District	Forrest Frick Rehabilitation Project	28	\$ 8,200,000	\$ 12,300,000	Y	Y	WS, Energy/GHG, OE				
MF-6	Mountains/Foothills	Frazier Park Public Utility District	Cuddy Valley Water Supply Evaluation	28		\$ 1,000,000			WS	?		?	
GB-5	Greater Bakersfield	City of Bakersfield	Water Conservation Project for Metropolitan Bakersfield	27		\$ 164,000	Y	Y	WS, Energy/GHG, Delta	?			

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06/01/2015

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				Tier 2 Score	Project Cost Low **	Project Cost High	Project Scale	Cost Share	Benefits***	DAC	CASGEM Comp.	Human Right to Water	Max. Grant Request
CK-5	County of Kern	County of Kern (Krista MWC)	Krista Mutual Water Company Water Project	27		\$ 450,000	N		WS, WQ	Y	*	?	?
NC-2	North County	City of McFarland	Browning Road Storage Tank and Booster Facility	27		\$ 2,300,000		Y	WS, WQ, OE,	Y	*	?	
SC-1	South County	Arvin-Edison Water Storage District/Kern Delta Water District	AEWSD Intake Canal and Kern Delta Buena Vista River Canal Intertie Project	27		\$ 1,000,000	N	Y	WS,				
WS-1	Westside	Lost Hills Water District	Regional Brackish Water Treatment Project	27	\$ 2,000,000	\$ 42,000,000	Y	Y	WS, WQ, Energy/GHG, Delta		N		
WS-3	Westside	Berrenda Mesa Water District	Lost Hills Surface Water Treatment Plant	27	\$ 3,000,000	\$ 5,000,000	N		WS, WQ, appropriate water use	Y	N	?	
KR-2	Kern River Valley	Tubatulabal Tribal Water Board	Phase II Safe Drinking Water and Tribal Allotments Community Water System	26	\$ 75,000	\$ 150,000	N	N	WQ, WS,	Y	*	Y	
KR-3	Kern River Valley	Tubatulabal Tribal Water Board	Phase II Safe Drinking Water and Community Use Area - White Blanket Allotment	26	\$ 125,000	\$ 175,000	N		WQ, WS,	Y	*	Y	
MF-4	Mountains/Foothills	Bear Valley Community Services District	Radio Nuclides Treatment Project	26		\$ 650,000	N	Y	WS, WQ, Delta				
NC-1	North County	City of Shafter	Well No. 15	26		\$ 2,000,000							
SC-10	South County	Arvin-Edison Water Storage District	South Canal Balancing Reservoir	25									
WS-4	Westside	Lost Hills Utility District	Construction of a New Well to Provide a Firm Water Supply to the LHUD Users	25	\$ 500,000	\$ 800,000			WS, WQ,	Y	*	?	
WS-5	Westside	Lost Hills Utility District	Storage Tank Rehabilitation to the LHUD 2.0 MG Storage Tank	25		\$ 900,000			OE,	Y	*	?	
CK-3	County of Kern	County of Kern	Lakeshore Pines Leachfield Restoration	24		\$ 500,000					N		
CK-4	County of Kern	County of Kern	Lake Isabella Detailed Sewer Study	24	\$ 300,000	\$ 500,000					N		
GB-1	Greater Bakersfield	Improvement District No. 4	Recharge Improvement Project	23		\$ 300,000							
GB-2	Greater Bakersfield	Improvement District No. 4	Beardsley Pipeline	22		\$ 10,500,000	Y	Y	WS, Energy/GHG				
GB-3	Greater Bakersfield	Improvement District No. 4	CVC Extension Lining	22		\$ 3,875,760	Y	Y	WS, Energy/GHG, Delta				
KR-5	Kern River Valley	County of Kern	Tradewinds Auxiliary Well or Uranium Treatment	22		\$ 265,000	N		WS, WQ,	Y	N	?	
CK-2	County of Kern	County of Kern	Caliente Creek Habitat Restoration	21	\$ 250,000	\$ 600,000					N		
										\$ 4,048,000			

* Project may be CASGEM compliant as agency is a DAC (County may not be an applicant at t)

** Cost shown in red is the remaining project cost after prior to IRWM grant funding

*** WS = Water Supply, WQ = Water Quality, GHG = Greenhouse Gases, FC = Flood Control