

ATTACHMENT: 7

Disadvantaged Community Assistance



East Contra Costa County Integrated Regional Water Management
Proposition 84 2015 Implementation Grant Application

EAST CONTRA COSTA COUNTY INTEGRATED REGIONAL WATER MANAGEMENT

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List of Acronyms and Abbreviations

ACS	U.S. Census Bureau American Community Survey
CEQA	California Environmental Quality Act
CCWD	Contra Costa Water District
DAC	Disadvantaged community
Delta	Sacramento-San Joaquin River Delta
District	Delta Diablo
DWR	Department of Water Resources
ECCC	East Contra Costa County
IRWM	Integrated Regional Water Management
LPS	Local Project Sponsor
MHI	median household income
MOU	Memorandum of Understanding
PRC	Public Resources Code

Introduction

This attachment documents how the East Contra Costa County (ECCC) Sustainable Delta Water Management Proposal addresses critical water supply and quality needs of Disadvantaged Communities within the ECCC IRWM Region. This chapter also reviews the Bay Area and East Contra Costa County overlap area to illustrate which project are within the Bay Area overlap and which project are entirely within the San Joaquin region.

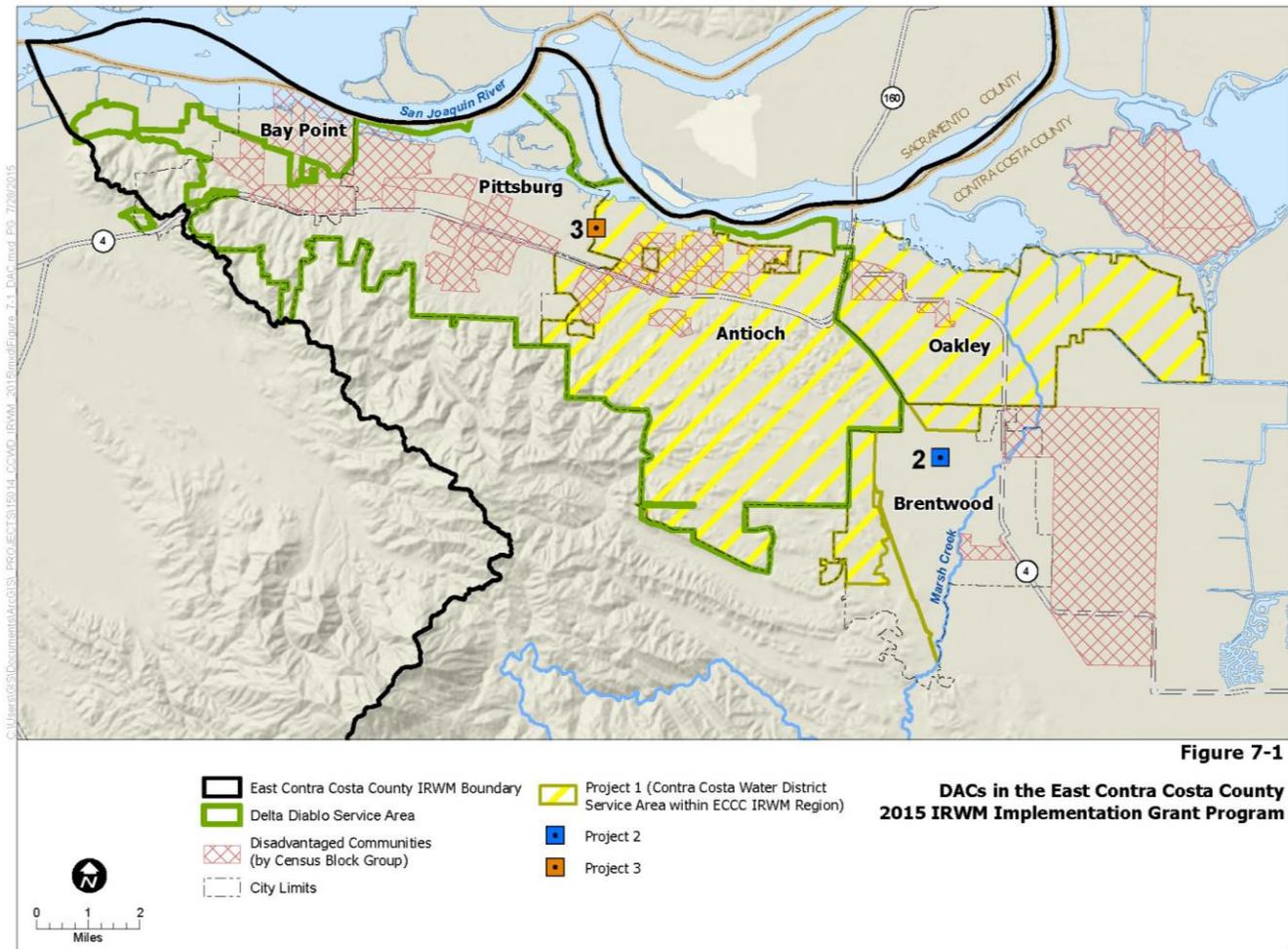
According to the DWR Prop 84 IRWM Guidelines, a “disadvantaged community” (DAC) is defined by the State of California as a community with an annual median household income (MHI) that is less than 80 percent of the Statewide MHI (Public Resources Code (PRC), 75005(g)). The U.S. Census Bureau’s American Community Survey (ACS) includes MHI data compiled for the 5-year period from 2009 to 2013. Using the ACS data for the years 2009-2013, the Statewide MHI is \$61,094 and 80% of the Statewide MHI is \$48,875.

A community with an MHI of \$48,875 or less is considered a DAC. The ACS data is available at the census place, census tract, and census block group geography levels. The Census defines a census block group as statistical divisions of census tracts. They are generally defined to contain between 600 and 3,000 people, and are used to present data and control block numbering. A block group consists of clusters of blocks within the same census tract that have the same first digit of their four-digit census block number. Each census tract contains at least one block group, and block groups are uniquely numbered within the census tract. Within the standard census geographic hierarchy, block groups never cross state, county, or census tract boundaries but may cross the boundaries of any other geographic entity. **Figure 7-1** shows the census block groups within the East Contra Costa County IRWM Region that are considered DACs. These include block groups in portions of Bay Point, and the cities of Antioch, Brentwood, and Pittsburg, as well as communities on Bethel Island.

Census block groups that qualify as disadvantaged communities cover an area of 30,644 acres, or approximately 10% of the geographic area of the region. The East Contra Costa County Region has a total population of approximately 316,000 people; the population living within DACs in the region is approximately 73,280, equivalent to 23% of the total population. The MHIs of the DACs identified in Figure 7-1 range from \$16,332 to \$48,430, with an average MHI of \$37,431. Table 7-1 summarizes the Census/ACS data and the MHI statistics.

Table 7-1: Disadvantaged Communities in the East Contra Costa County IRWM Region

Disadvantaged Census Block Group	Median Household Income (5-year average, 2009-2013)
060133010001	\$40,774
060133010002	\$33,258
060133020051	\$32,813
060133020054	\$41,389
060133031031	\$39,545
060133032041	\$33,375
060133050001	\$35,673
060133050002	\$33,423
060133050004	\$47,941
060133050005	\$32,339
060133060031	\$44,167
060133060032	\$41,125
060133060033	\$43,478
060133060042	\$46,442
060133071011	\$47,634
060133071021	\$43,880
060133071022	\$41,538
060133071023	\$36,176
060133072012	\$20,402
060133072021	\$32,664
060133072022	\$16,332
060133072023	\$34,063
060133072051	\$26,997
060133072052	\$32,095
060133100001	\$45,703
060133100003	\$47,950
060133110001	\$32,000
060133120001	\$28,672
060133131012	\$27,833
060133131013	\$27,176
060133131014	\$48,430
060133132041	\$45,833
060133132062	\$42,254
060133141021	\$47,632
060133141023	\$47,051
060133141033	\$34,286
060133141041	\$39,630
060133141042	\$31,641
060133141043	\$41,852
060133141044	\$34,362
060133142001	\$40,394
060133142002	\$31,902



Critical Water Supply and Water Quality Needs of DACs in the Region

Many of the critical water supply and water quality needs of DACs in the ECCC IRWM Region are typical of communities throughout the state. The primary water supply and water quality issues facing DACs relate to a strong reliance on Sacramento-San Joaquin River Delta supplies, a need to maintain compliance with applicable drinking water standards, and the threat of damage from flooding. Critical water supply needs of DACs in East Contra Costa County include:

- Improved water supply reliability/reduced reliance on Delta supplies
- Water quality of groundwater supplies used to supplement Delta supplies
- Infrastructure renovations necessary to assure continued reliability of the minimum quality and quantity of water
- Affordability programs to offset the rising costs of water service
- Flood and stormwater management projects designed to protect disadvantaged communities from flooding impacts

All of the water suppliers within the ECCC IRWM Region primarily rely on Delta supplies, with some

supply provided by groundwater. Because of the region's heavy dependence upon Delta water supplies, events that threaten the quality or quantity of this supply could have significant ramifications on the economic viability of the entire region. This may be of particular concern for DACs, where economic conditions are below the statewide average.

Further, the rising cost of water in the region is a critical water supply-related issue for DACs. Agencies must continually balance the need to improve supply reliability through implementation of aggressive conservation, water recycling, potentially expensive groundwater treatment, and even desalination with a need to maintain water affordability for DACs.

Targeted Benefits Provided by Proposed Projects

The locations of the projects included in the ECCC Sustainable Delta Water Management Proposal are shown in Figure 7-1. While all three projects will have direct water supply benefits to DACs, only one of the three projects included in this Proposal will directly address critical water quality and water supply needs of DACs covering more than 25% of the total project benefit area.

- The **East Contra Costa County Lawn to Garden Rebate Program** (Project 1) will provide incentives to East Contra Costa County customers to reduce non-essential potable water usage through a program that provides customer rebates for conversion of lawns to water-wise gardens to achieve immediate and long-term drought relief and reduce water supply demands from on the Delta. The area benefiting from this recycled water project includes DACs within Antioch, Oakley, and portions of Brentwood. The project will address water-related needs of DACs in the project area, including water-supply reliability during drought periods. However, less than 25% of the area directing benefitting are DACs.
- The **Brentwood Non-Potable Water Distribution System – Phase III Project** (Project 2) will reduce the reliance on the Delta and groundwater for water supply, supply non-potable water to more customers, and reduce chloride discharge into the Delta. There are two DAC block groups located in the city limits. Though the proposed pipeline project is not located in a DAC, the long-term drought preparedness benefits of the proposed project will benefit the entire City service area, including DACs. However, the percentage of DACs in the City's service area is less than 25%.
- The **Delta Diablo Recycled Water Supply Expansion and Residential Fill Station Project** (Project 3) will provide consistent, permanent potable water offset for the communities of Bay Point, Pittsburg, and Antioch and reduced reliance on Delta water supply. The area benefiting from this recycled water project includes DACs within Bay Point, Pittsburg, and Antioch. According to DWR's DAC Mapping Tool Data, Delta Diablo's service area encompasses approximately 34,491 acres, of which 10,608 acres are DACs; therefore, 31% of the District's service area includes DACs by census block groups.

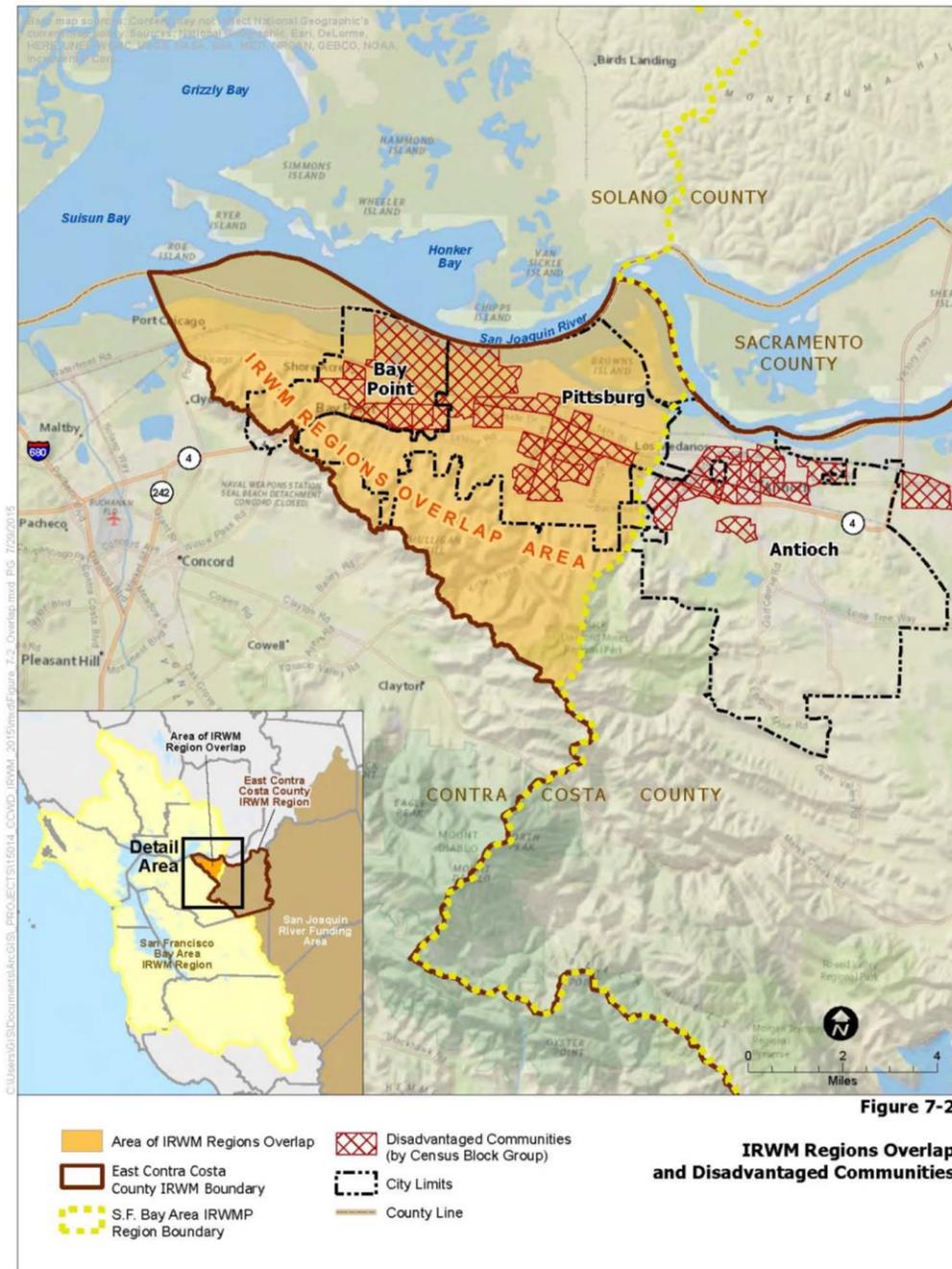
The pilot residential fill station program attracted over 100 residential customers from the DACs of Antioch and Pittsburg in the first two-days of operation. The District anticipates the permanent residential fill station will be very popular as a free water source for the DACs in Bay Point, Pittsburg, and Antioch.

Additional information regarding these projects can be found in Attachment 2: Project Justification.

Funding Overlap Area

The ECCC IRWM Region is within the San Joaquin River IRWM Funding Area. A portion of the ECCC IRWM Region overlaps the San Francisco IRWM Funding Area. **Figure 7-2** shows the portions of the ECCC IRWM Region that overlap with the San Francisco Bay IRWM Funding Area.

Based on geographical area, the City of Pittsburg, the unincorporated community of Bay Point, and a small portion of the City of Antioch are located in both the San Joaquin River IRWM Funding Area and the San Francisco Bay IRWM Funding Area (Overlap Area).



As shown in **Table 7-2**, approximately 2% of the City of Pittsburg is located within the San Joaquin River IRWM Funding Area, but the majority of the community (98%) is located in the Overlap Area. Conversely, approximately 99% of the City of Antioch is located within the San Joaquin River IRWM Funding Area, with only 1% located in the Overlap Area. The unincorporated community of Bay Point is located entirely within the Overlap Area.

Table 7-2: Portions of Bay Point, Pittsburg, and Antioch in the Overlap Area with the San Francisco Bay IRWM Funding Area

City or Community	Total Area (acres)	Overlap Area (acres and percent of city/community limits)	DACs in Overlap Area	
			Acres (% city/community limits)	Population (% total population in community)
Bay Point	4,717	4,717 (100%)	3,868 (82%)	13,607 (64%)
Pittsburg	12,259	11,989 (98%)	5,092 (100%)	24,751 (39%)
Antioch	18,613	192 (1%)	0 (0%)	0 (0%)
Total	35,589	16,898 (47%)	8,960 (53%)	38,358 (45%)

The ECCC Sustainable Delta Water Management Proposal includes one project that will result in direct water-related benefits to DACs in the Overlap Area, the Delta Diablo Recycled Water Supply Expansion and Residential Fill Station Project (Project 3).

The Delta Diablo project is a high priority project for the ECCC IRWM Region, in part due to its ability to address critical water supply and water quality needs of DACs in the region. This project benefits Delta Diablo's entire service area, which includes the communities of Bay Point, Pittsburg, and Antioch (see Figure 7-1). Delta Diablo's service area encompasses approximately 34,491 acres in both the Overlap Area and the San Joaquin River Funding Area. Most, but not all, of the Overlap Area is within the Delta Diablo service area (15,012 out of 16,898 total acres in the Overlap Area). Therefore, 30.8% of Delta Diablo's service area is in the Overlap Area. The DACs in the Overlap Area represent approximately 38,358 people.

Table 7-3, below, illustrates the amount of the Delta Diablo service area that straddles each IRWM Funding Region. The table also shows the percentage of DACs (by acres) within each portion of IRWM Funding Region. This table is included to demonstrate that the Delta Diablo project will provide direct water-related benefits to DACs in both IRWM Funding Regions.

Table 7-3: Delta Diablo Service Area and Overlap Area DACs (by acres)

Delta Diablo Service Area	Total Area (acres)	IRWM Funding Area (acres)	
		San Joaquin River	San Francisco Bay Overlap Area
Total Service Area	34,491	19,401	15,012
DACs in Service Area	10,608	3,710	6,898
% of DACs in Delta Diablo Service Area	31%	19%	46%

Table 7-4, below, shows the geographic distribution of beneficiaries of the projects in the ECCC Sustainable Delta Water Management Proposal. It also shows the percentage of the beneficiaries in each project in the Overlap Area that are DACs.

Table 7-4: Distribution of Beneficiaries and DACs of the Proposed Projects

Project	Total Grant Request	Beneficiaries	Percent of Total Beneficiaries in San Joaquin River Funding Area (by population)	Percent of Total Beneficiaries in Overlap Area (by population)	Percent of DAC Beneficiaries in Overlap Area (by population)
Project 1: East Contra Costa County Lawn to Garden Rebate Program	\$100,000	Antioch, Oakley, Brentwood	100%	0%	0%
Project 2: Brentwood Non-Potable Water Distribution System – Phase III Project	\$1,125,000	Brentwood	100%	0%	0%
Project 3: Delta Diablo Recycled Water Supply Expansion and Residential Fill Station Project	\$1,162,500	Bay Point, Pittsburg, Antioch	54%	46%	46%

Both the East Contra Costa County and San Francisco Bay Area IRWM Regions recognize the importance of implementing projects in the Overlap Area, particularly due to the high proportion of DACs residing in this area. The East Contra County IRWM Region has advised the Bay Area IRWM Region of its plans for its grant request in this Proposition 84 Implementation grant funding request.