

Proposition 84 IRWM Drought Grant Amendment and Related Program Implementation Items

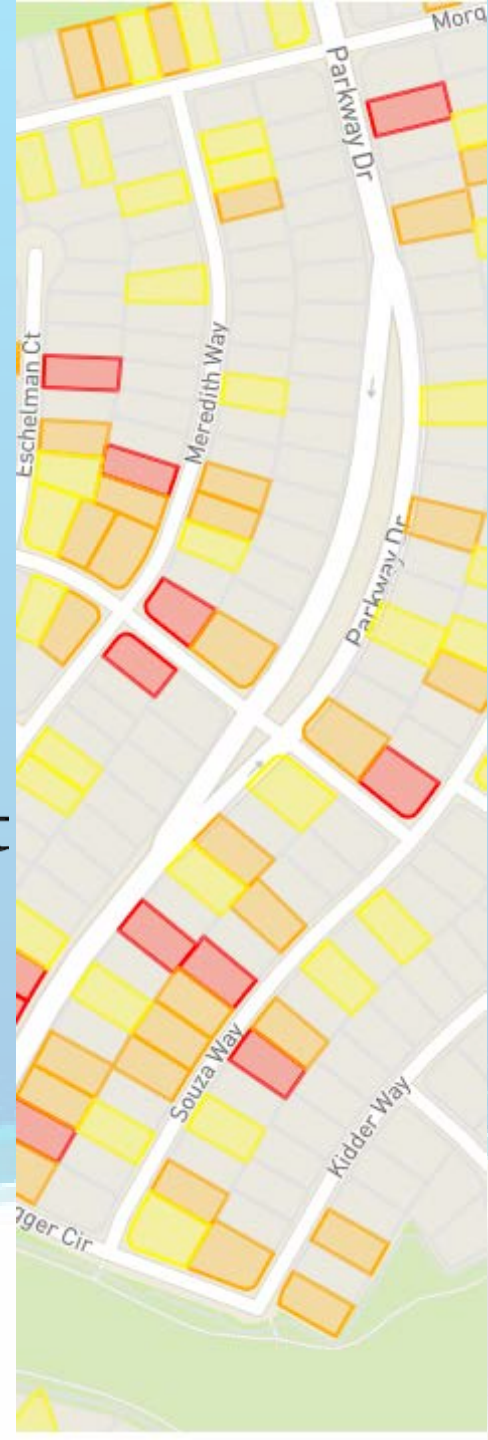


Ian Achimore
Senior Watershed Manager
Santa Ana Watershed Project Authority
August 24, 2017

Technology Based Information System: Web Based Water Consumption Reporting, Analytics and Customer Engagement Tool

Status Update: Dropcountr Component

PA 22 Committee
August 24, 2017



Update on Dropcountr Component

- SAWPA staff met with OmniEarth and Dropcountr staff to discuss low response by retail agencies in employing the customer outreach tools
- Six of the nine retail agencies that have signed up with Dropcountr have been slow to implement or launch the customer outreach tools
- Concerns/Issues:
 - Timing:
 - Perception that drought is over due to the Wet Winter of 2016
 - No Regulatory Driver
 - Delays
 - Data Quality Issues
 - Staff/Board Turnover
 - Disconnect between Departments



Project Highlights

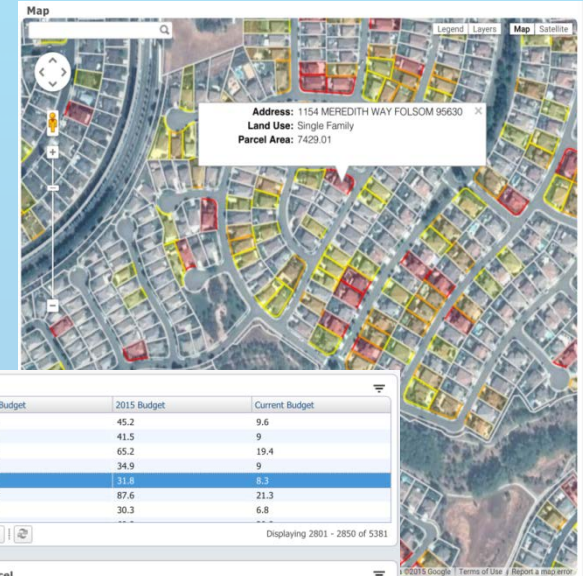
SAWPA has brought onboard the team of Dropcountr and OmniEarth to implement a comprehensive solution to assist retail agencies in the Santa Ana River Watershed in meeting mandated water conservation targets.

- Cutting edge software
- Efficiency-based approach
- Precise water budgets
- Targets wasteful users
- Customized messaging
- Training for retail agency staff
- Reporting on water savings benefits achieved



OmniEarth Tools

- Efficiency Based Indoor & Outdoor Water Budgets by Parcel for the entire Santa Ana River watershed and portions of the Upper Santa Margarita watershed that covers, RCWD, EMWD and WMWD service areas.
- Agency Dashboards
 - Sq. Footage of Irrigated Area by Parcel
 - Automatic identification of difference between budget and actual usage
 - Inefficient User Identification
 - Tracking Metrics for State Reporting
- Training and Support



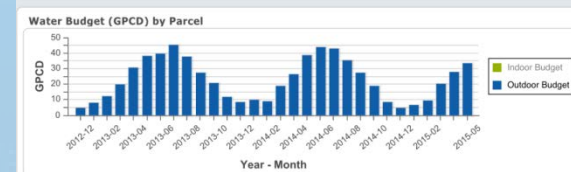
Parcel Information (GPCD)

Address	2014 Budget	2015 Budget	Current Budget
1142 MEREDITH WAY FOLSOM...	110.6	45.2	9.6
1146 MEREDITH WAY FOLSOM...	102.3	41.5	9
617 ASCADA CT FOLSOM 95600	179.3	65.2	19.4
1150 MEREDITH WAY FOLSOM...	91.2	34.9	9
1154 MEREDITH WAY FOLSOM...	83.2	31.8	8.3
1172 CLEMENSEN CIR FOLSOM...	223.6	87.6	21.3
1166 CLEMENSEN CIR FOLSOM...	75.4	30.3	6.8

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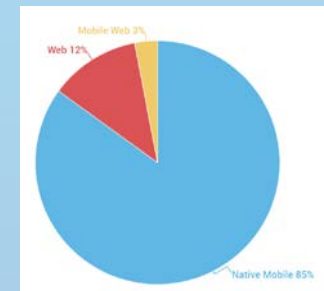
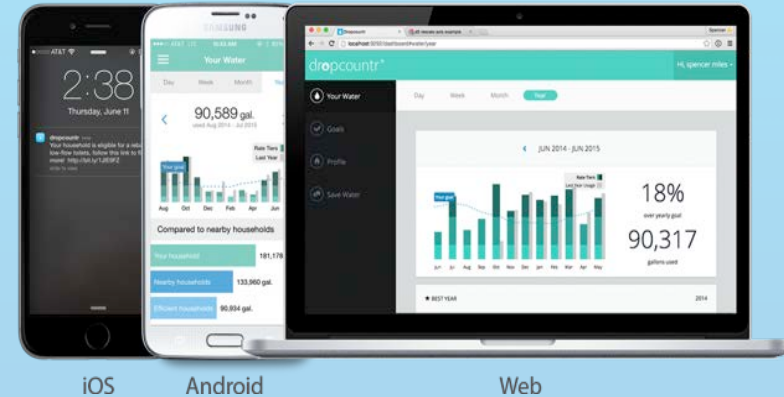
Water Budget (GPCD) by Parcel

Year - Month	Indoor Budget	Outdoor Budget	Total Budget
2015-05	26.5	33.4	59.9
2015-04	26.5	27.6	54.1
2015-03	26.5	20.5	47
2015-02	26.5	9.6	36.1
2015-01	26.5	6.5	33
2014-12	26.5	4.9	31.4
2014-11	26.5	8.3	34.8
2014-10	26.5	19	45.4
2014-09	26.5	22.2	48.7



Dropcountr Tools

- Agency Dashboards
 - Meter Data Management Platform
 - Customer Information System
 - Map and List View of ALL Residential Customers
 - Sort, Filter, Report, Analyze
 - Leak Alerts
 - Data Export
 - Customer Engagement via 'Push-Notification' and Email
 - ID Most Inefficient Users
- Consumer Mobile Application
 - 25% of customer base will gain access to mobile and web platform
 - iOS and Android Applications
 - Web Based Platform
- Paper Outreach
 - 10% Customer base will receive paper outreach
 - 1 Postcard
 - 1 personalized Monthly Water Report
- Training and Support



Next Steps:

- SAWPA Staff is scheduling individual meetings with retail agencies to discuss.
- Staff will work with these retail agencies to get them reengage in the process.
- Staff will work with the project consultants OmniEarth and Dropcountr for any customization of project tools to address the specific needs of the retail agencies.
- Staff is confident that there is sufficient time within the project window to complete the project and achieve the required project benefits.



Questions?




Project Budget



Available Grant Funding	\$ 1,735,000		
Grant Expenditures (projected)			
Water Retailer		OmniEarth	Dropcountr
FULLERTON, CITY OF	\$ 43,101	\$ 9,966	\$ 33,135
WEST VALLEY WATER DISTRICT	\$ 36,572	\$ 10,104	\$ 26,468
LOMA LINDA, CITY OF	\$ 20,639	\$ 6,679	\$ 13,960
TUSTIN, CITY OF	\$ 27,729	\$ 7,717	\$ 20,013
EASTERN MUNICIPAL WATER DISTRICT	\$ 149,545	\$ 25,543	\$ 124,002
RIALTO, CITY OF	\$ 27,032	\$ 7,614	\$ 19,418
BREA, CITY OF	\$ 30,350	\$ 8,100	\$ 22,250
YORBA LINDA WATER DISTRICT	\$ 39,196	\$ 9,395	\$ 29,801
ONTARIO, CITY OF	\$ 43,153	\$ 9,592	na
MONTE VISTA WATER DISTRICT	\$ 26,517	\$ 7,819	\$ 18,698
NEWPORT BEACH, CITY OF	\$ 41,625	\$ 9,750	na
Sub-total (projected):	\$ 420,023	\$ 112,279	\$ 307,744
Other Expenditures under Task Order			
Watershed Budgets	\$ 525,000		
Dashboards	\$ 1,000		
Outreach Workshops & Toolset Training	\$ 15,000		
Sub-total:	\$ 541,000		
Total Grant Expenditures (projected):	\$ 961,023		
Remaining Task Order Funding:	\$ 538,977		
Unallocated Grant Funding:	\$ 235,000		
IEUA Grant Funding Request:	\$ 50,000		
Remaining Grant Funding:	\$ 723,977		



Retail Water Agency Meter Geocoding & Business Type Classification Program




Background – April 2017

- State releases its final report titled, Making Water Conservation a California Way of Life, Implementing Executive Order B-38-16. The report outlines three recommended performance measures on Commercial, Industrial, and Institutional (CII) accounts



Background April 2017 continued

- Convert all landscapes over a specified size threshold that are served by mixed meter CII account to dedicated irrigation accounts
- Classify CII accounts using North American Industry Classification System (NAICS)
- Conduct water use audits or prepare water management plans for CII accounts over specified size, volume or percentage threshold



Background – June 2017

- JUNE 2017 - PA 22 Committee Authorizes SAWPA staff to issue RFP looking for firms to do the following:
 - Provide Comprehensive Water Meter Geocoding Services
 - Perform NAICS classifications on CII accounts
 - Identify mixed meter CII accounts



Selection Process

- Two Firms responded

 - AESC

 - Miller Spatial

- Review and Interviews by committee

- Miller Spatial selected for experience and cost



Work Plan

- Kickoff Meeting
- Individual Agency Meeting
- Geocoding Process
- Quality Assurance Reports
 - Record Counts
- Deliverables
 - Business Point Shape File with Account Attributes

Geocoding Process – MSA to Accounts



Parcels with
Meter Service
Areas (MSA) and
Vegetation
measurements

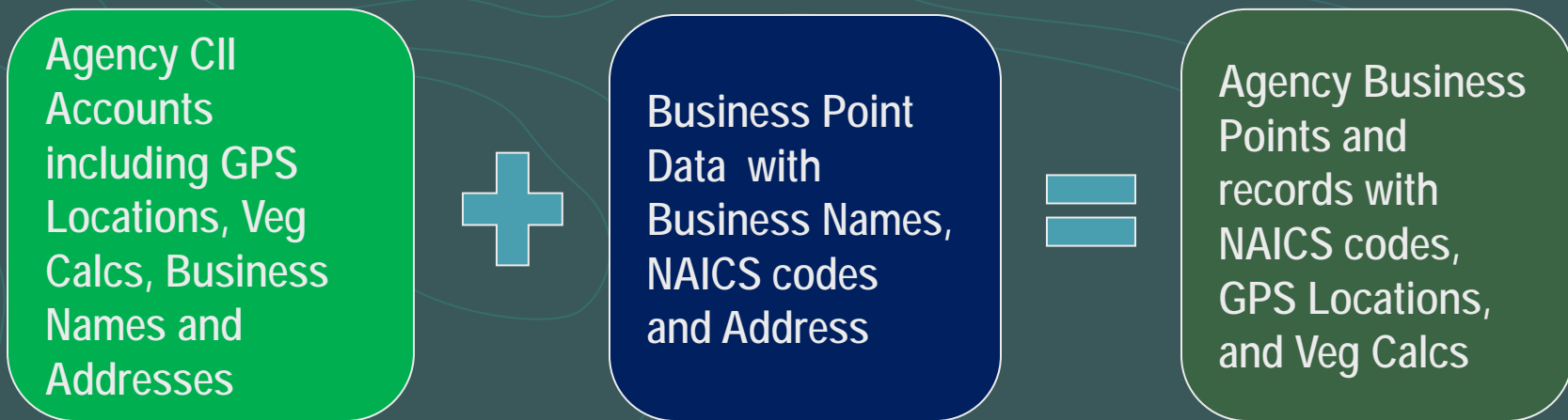


Agency
Accounts
including
Account type
and Addresses



Agency Accounts
with Lat Long
Location and
Vegetation
measurements

Geocoding Process – NAICS Matching



CII Matched Accounts




Interested Agencies



City of Brea
City of Buena Park
Eastern Municipal Water District
Fontana Water Company
Golden State Water Company
City of La Habra
City of La Palma

Monte Vista Water District
City of Orange
Rancho California Water District
City of Seal Beach
City of Tustin
City of Westminster
Western Municipal Water District
Yorba Linda Water District

Miller Spatial Estimated Costs



Item	Count	Cost	Total
Agency Setup - \$1000 to \$5000	15	\$4000	\$60,000
Business Point Database - Watershed	1	\$30,000	\$30,000
Geocoding – Per meter type and count <i>Includes NAICS codes on CII meters</i>	*	*	\$200,000
ESRI ArcGIS Online license	15	\$500	\$7,500
Estimated Costs:			\$297,500



Recommendation

- The Conservation Advisory Workgroup and SAWPA staff recommends that the Project Agreement (PA) 22 Committee authorize Task Order No. MSS504-301-01 with Miller Spatial Inc. for an amount not-to-exceed \$300,000 to implement the Retail Water Agency Meter Geocoding and Business Type Classification Program for agencies in the Santa Ana River Watershed, as well as the EMWD and WMWD service areas within the Upper Santa Margarita Watershed.



Background – Projects in Grant Agreement

Project 1: Conservation Based Reporting Tools and Rate Structure Implementation



Project 2: High Visibility Turf Removal and Retrofit



Water Rates

Tech Tool

Aerial Imagery

Executive Order

Turf

***Components of Project**



Background – Funding Areas in Grant Agreement





Background – Definition of Budget Category

Budget category refers to the funding classification used for DWR’s IRWM grants. DWR normally utilizes four budget categories. Grantees are able to transfer funding within budget categories (such as between tasks) without an grant agreement amendment, but a transfer between budget categories requires an official amendment.

Budget Category	Budget Category Name
A	Project Administration
B	Land Purchase
C	Planning
D	Construction

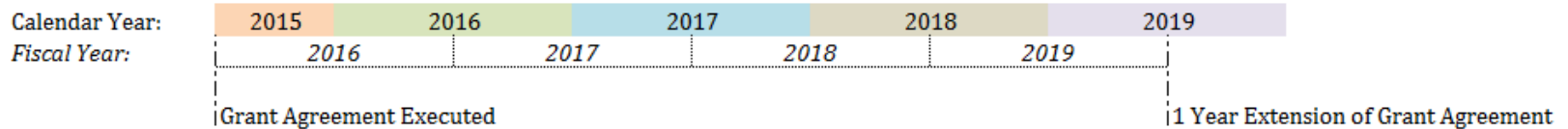


Summary of Amendment - Schedule

Current Grant Agreement



Grant Agreement Extended



Additional time necessary to implement:

Water Rates, Tech Tool and Executive Order, and Turf components



Summary of Amendment - Funding

The shifting of approximately \$1,470,000 (the total of the \$1,150,000 and \$320,000) within the Proposition 84 IRWM Drought Grant agreement would provide further benefits such as

- Turf removal and associated water savings to the region,
- Fully utilize the cost savings from implementation of the Emergency Drought Grant Program, and
- Stay within the current grant authority of \$12,860,110 as shown in Table 7.

Notes:

\$1,150,000 related to turf implementation

\$320,000 related to project management.



Budget Change to Include in Proposed Amendment

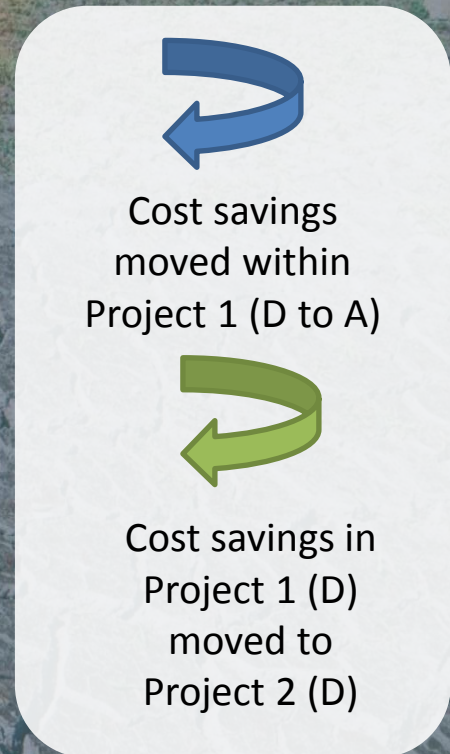
Table 7.

Prop 84 IRWM Drought Grant Agreement Budget Before and After Proposed Amendment

Budget Category	Project 1 Current Budget	Project 1 Amended Budget	Delta
A	\$875,000	\$1,194,852	+\$319,853
B	\$0	0	0
C	\$50,000	\$50,000	0
D	\$6,662,610	\$5,190,824	-\$1,471,786
Total	\$7,587,610	\$6,435,676	-\$1,151,934

Budget Category	Project 2 Current Budget	Project 2 Amended Budget	Delta
A	\$0	\$0	\$0
B	\$0	\$0	\$0
C	\$0	\$0	\$0
D	\$5,272,500	\$6,424,434	+\$1,151,934
Total	\$5,272,500	\$6,424,434	+\$1,151,934

Grant Authority (Total Project 1 + Total Project 2)	\$12,860,110	\$12,860,110	\$0
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Participating Agency Funding Requests

Table 1.
Requests from Turf Participating Agencies

Participating Agency	Additional Funding Provided by Grant's Cost Savings	Associated Square Feet of Turf Removed
EMWD	\$598,329	448,170
IEUA	\$340,000	340,000
OCWD/MWDOC	\$0	0
RCWD	\$0	0
SBVMWD	\$0	0
WMWD	\$130,000	369,125
Total	\$1,068,329	1,157,295

Important Note: The importance of gathering the list of turf removal projects and their associated costs from the participating agencies is that the projects would be able to utilize the cost savings from Project 1 of the Emergency Drought Grant Program.



Waiver of Policy Statement

The IRWMP grant and local matching funds will be provided to individual landscape retrofit projects on properties owned and maintained by a homeowner association, institution or public agency, whereby each individual property can receive no more than \$250,000 in IRWMP grant funds per the policy statement issued by the Committee.

- EMWD - West Valley High School rebate provided by grant: \$281,000





Projected Spending

**Table 2.
Projected Spending**

Item	Projected Spending Item	Grant Funding	Budget Category	Project
a.	EMWD	\$598,329	D	2
b.	IEUA	\$340,000	D	2
c.	WMWD	\$130,000	D	2
d.	First Come/First Serve Turf	\$83,605	D	2
e.	Remaining Grant in Turf Sub-Grantee Agreements	\$3,388,728	D	2
f.	Additional Rate Funding	\$15,000	D	1
g.	Remaining Grant in Rates Project	\$1,517,561	D	1
h.	OmniEarth Tool	\$330,000	D	1
i.	ESRI Mapping Tool	\$115,000	D	1
j.	Geo/Business Coding Program	\$350,000	D	1
k.	Project Management (Grant & PA 22)	\$542,346	A	1
l.	Project Management (Implementation)	\$241,047	D	1
m.	Additional Project Management (Grant & PA 22)	\$40,000	A	1
n.	Additional Project Management (Implementation)	\$45,000	D	1
o.	Sub-Total Project 1	\$3,195,954	A and D	1
p.	Sub-Total Project 2	\$4,540,662	D	2
q.	Grand Total	\$7,736,616	A and D	1 and 2



Items for Feedback

**Table 2.
Projected Spending**

Item	Projected Spending Item	Grant Funding	Budget Category	Project
d.	First Come/First Serve Turf	\$83,605	D	2
f.	Additional Rate Funding	\$15,000	D	1

“First come/first serve” amount of grant funding for turf projects could serve as a method to incentivize the participating agencies to compete for the remaining grant funds beyond those itemized in the turf funding table (Table 1).

An alternative method includes allocating the funding to each of the agencies, but with their current demand for grant funding already accounted for in Table 1, a set-aside may not serve as the strongest incentive to complete the Emergency Drought Grant Program by December 2018.





Items for Feedback

**Table 2.
Projected Spending**

Item	Projected Spending Item	Grant Funding	Budget Category	Project
d.	First Come/First Serve Turf	\$83,605	D	2
f.	Additional Rate Funding	\$15,000	D	1

An allocation of funding could be provided to the seven conservation-based water rate agencies on a first come/first serve basis if they adopt the rate structure. This could serve as a method to incentivize agencies to not only adopt their rate structure, but also complete their rate study as quickly as possible to secure remaining grant funding.





Budget Change to Include in Proposed Amendment

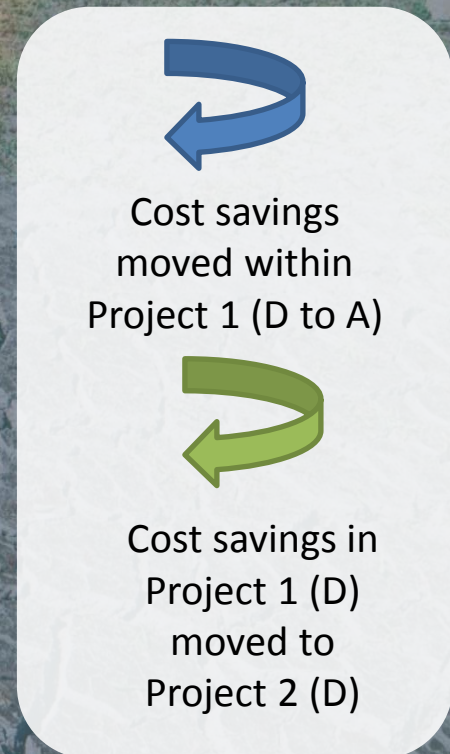
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Prop 84 IRWM Drought Grant Agreement Budget Before and After Proposed Amendment

Budget Category	Project 1 Current Budget	Project 1 Amended Budget	Delta
A	\$875,000	\$1,194,852	+\$319,853
B	\$0	0	0
C	\$50,000	\$50,000	0
D	\$6,662,610	\$5,190,824	-\$1,471,786
Total	\$7,587,610	\$6,435,676	-\$1,151,934

Budget Category	Project 2 Current Budget	Project 2 Amended Budget	Delta
A	\$0	\$0	\$0
B	\$0	\$0	\$0
C	\$0	\$0	\$0
D	\$5,272,500	\$6,424,434	+\$1,151,934
Total	\$5,272,500	\$6,424,434	+\$1,151,934

Grant Authority (Total Project 1 + Total Project 2)	\$12,860,110	\$12,860,110	\$0
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Recommendation

1. Approve the execution of an amendment to the Proposition 84 Integrated Regional Water Management Drought Grant Agreement to include changes such as:
 - A. Shifting approximately \$1,150,000 in Emergency Drought Grant Program cost savings from Project 1 to Project 2.
 - B. Shifting approximately \$320,000 in cost savings within Project 1 from Budget Category D to Budget Category A.
2. Authorize SAWPA to execute sub-grantee agreement amendments to add the Emergency Drought Grant Program's cost savings to the current funding amounts in the agreements.
3. Waive Policy Statement No. 1 the projects scheduled to receive a rebate partially over the \$250,000 per project ceiling.
4. Provide feedback on the projected spending items – first come/first serve for turf and rates.



Table 2.
Projected Spending

Item	Projected Spending Item	Grant Funding	Budget Category	Project
d.	First Come/First Serve Turf	\$83,605	D	2
f.	Additional Rate Funding	\$15,000	D	1

Supporting Material



DWR Grant Perspective: Before and After Grant Agreement Amendment



Current Budget: Project 1

Table 3.

Project 1: Conservation Based Reporting Tools and Rate Structure Implementation

a.	b.	c.	d.	e.	f.
Budget Category	Grant Budget	Actual Grant Spending	(b. - c.) Remaining Grant Funding	Projected Grant Spending	(b. - c. - e.) Remaining Grant Funding
A	\$875,000	\$612,506	\$262,493	\$582,346	-\$319,853
B	\$0	\$0	\$0	\$0	\$0
C	\$50,000	\$50,000	\$0	\$0	\$0
D	\$6,662,610	\$2,577,215	\$4,085,394	\$2,613,608	\$1,471,786
Totals	\$7,587,610	\$3,239,723	\$4,347,887	\$3,195,954	\$1,151,934

Funds Moved Within Project 1



Moved to Project 2





Amended Budget: Project 1

Table 5.
Project 1: Conservation Based Reporting Tools and Rate Structure Implementation

a.	b.	c.	d.	e.	f.
Budget Category	Grant Budget	Actual Grant Spending	(b. - c.) Remaining Grant Funding	Projected Grant Spending	(b. - c. - e.) Remaining Grant Funding
A	\$1,194,852	\$612,506	\$582,345	\$582,345	\$0
B	\$0	\$0	\$0	\$0	\$0
C	\$50,000	\$50,000	\$0	\$0	\$0
D	\$5,190,824	\$2,577,216	\$2,613,608	\$2,613,608	\$0
Total	\$6,435,676	\$3,239,723	\$3,195,953	\$3,195,953	\$0

Funds Moved to Project 2



Funds Moved Within Project 1





Current Budget: Project 2

Table 4.

Project 2: High Visibility Turf Removal and Retrofit Project

a.	b.	c.	d. (b. - c.)	e.	f. (b. - c. - e.)
Budget Category	Grant Budget	Actual Grant Spending	Remaining Grant Funding	Projected Grant Spending	Remaining Grant Funding
A	\$0	\$0	\$0	\$0	\$0
B	\$0	\$0	\$0	\$0	\$0
C	\$0	\$0	\$0	\$0	\$0
D	\$5,272,500	\$1,883,772	\$3,388,728	\$3,388,728	\$0
Totals	\$5,272,500	\$1,883,772	\$3,388,728	\$3,388,728	\$0



Amended Budget: Project 2

Table 6.

Project 2: High Visibility Turf Removal and Retrofit Project

a.	b.	c.	d.	e.	f.
Budget Category	Grant Budget	Actual Grant Spending	(b. - c.) Remaining Grant Funding	Projected Grant Spending	(b. - c. - e.) Remaining Grant Funding
A	\$0	\$0	\$0	\$0	\$0
B	\$0	\$0	\$0	\$0	\$0
C	\$0	\$0	\$0	\$0	\$0
D	\$6,424,434	\$1,883,772	\$4,450,662	\$4,450,662	\$0
Totals	\$6,424,434	\$1,883,772	\$4,450,662	\$4,450,662	\$0

Funds Moved From Project 1



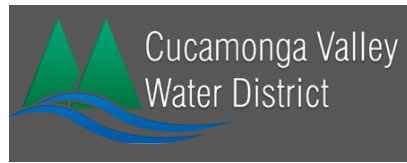
Supporting Material

FYE 2018

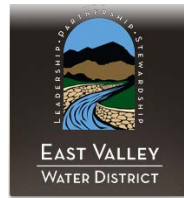
Source of Funds	Funding
Grant – SAWPA Implementation	\$1,265,683
Grant – Pass Through to SARCCUP Agencies	\$4,133,341
Total	\$5,399,024
Use of Funds – SAWPA Implementation	Funding
Labor	\$109,479
Benefits	\$47,824
Indirect Costs	\$154,453
Program Expenses	\$953,927
Total	\$1,265,683
Use of Funds – Pass Through	Funding
Reimbursement to Agencies	\$4,133,341

FYE 2019

Source of Funds	Funding
Grant – SAWPA Implementation	\$1,182,042
Grant – Pass Through to Agencies	\$100,000
Total	\$1,282,042
Use of Funds – SAWPA Implementation	Funding
Labor	\$81,866
Benefits	\$35,772
Indirect Costs	\$115,478
Program Expenses	\$948,927
Total	\$1,182,043
Use of Funds – Pass Through	Funding
Reimbursement to Agencies	\$100,000



Yorba Linda
Water District



WESTERN
MUNICIPAL
WATER
DISTRICT



SINCE 1933



Individual Projects	Square Feet of Turf Removed	Grant	Match	Total
Project 1	1	\$ 0.75	\$ 1.00	\$ 1.75
Project 2	1	\$ 0.75	\$ 1.00	\$ 1.75
Project 3	1	\$ 0.75	\$ 1.00	\$ 1.75
Project 4	1	\$ 0.75	\$ 1.00	\$ 1.75
Project 5	1	\$ 0.75	\$ 1.00	\$ 1.75
Project 6	1	\$ 0.75	\$ 1.00	\$ 1.75
Project 7	1	\$ 0.75	\$ 1.00	\$ 1.75
Project 8	1	\$ 0.75	\$ 1.00	\$ 1.75
Project 9	1	\$ 0.75	\$ 1.00	\$ 1.75
Project 10	1	\$ 1.00	\$ 1.00	\$ 2.00
Project 11	1	\$ 2.00	\$ -	\$ 2.00
Project 12	1	\$ 2.00	\$ -	\$ 2.00
Total	12	\$ 11.75	\$ 10.00	\$ 21.75



Programmatically – Ratio for \$/SF is \$0.98/1SF
\$11.75/12SF