



San Diego Integrated Regional Water Management

2015 IRWM Implementation Grant Proposal

Authorization and Eligibility Requirements – CASGEM Compliance

CASGEM Compliance

Within the San Diego IRWM Region, there are four medium priority groundwater basins per the California Statewide Groundwater Elevation Monitoring (CASGEM) Program definition: San Pasqual Valley, San Diego River Valley, Santa Margarita Valley, and San Luis Rey Valley. There are no high priority groundwater basins in the Region. Four of the local project sponsors in this Proposal are eligible monitoring entities as defined in CWC §10927: City of Escondido, City of San Diego, Padre Dam MWD, and SWA. The remaining eight local project sponsors are not eligible monitoring entities because they are non-profit organizations (UCSD, Groundwork, RCAC, The Garden, and Zoological Society), federal agencies (USFS), or are public agencies without jurisdiction over groundwater management, activities, or monitoring (San Elijo JPA and SDCWA). An explanation of why each project proponent is or is not an eligible monitoring entity, as defined in CWC §10927 is provided here:

- **Project 1: SDCWA (Ineligible):** SDCWA is not an eligible monitoring entity because it has no jurisdiction over groundwater-related activities in the Region. SDCWA is a water wholesaler and does not have any jurisdictional connectivity with the San Diego County nor land use authority. SDCWA is governed by a Board of Directors that consists of member agencies (water agencies); while the County of San Diego is governed by their own separate Board of Supervisors.
- **Project 2: Groundwork (Ineligible):** Groundwork is not an eligible monitoring entity because it is a non-profit organization that is not a groundwater management agency, groundwater replenishment district, local agency, or part of a voluntary groundwater monitoring association.
- **Projects 3 & 13: City of San Diego (Eligible):** The City of San Diego is an eligible monitoring entity because it is a local agency that is managing all or part of the San Diego River Valley Basin and the San Pasqual Valley Basin, among others. It regularly reports groundwater monitoring results to the State.
- **Project 4: The Garden (Ineligible):** The Garden is not an eligible monitoring entity because it is a non-profit organization that is not a groundwater management agency, groundwater replenishment district, local agency, or part of a voluntary groundwater monitoring association.
- **Project 5: RCAC (Ineligible):** RCAC is a non-profit organization that provides technical and financial assistance to rural communities in the areas of environmental infrastructure, affordable housing, economic and leadership, and community development. It is not a groundwater management agency, groundwater replenishment district, local agency, or part of a voluntary groundwater monitoring association, and therefore is not an eligible monitoring entity.
- **Project 6: San Elijo JPA (Ineligible):** San Elijo JPA is not an eligible monitoring entity because it is not a groundwater management agency, groundwater replenishment district, local agency monitoring and reporting groundwater levels, or part of a voluntary groundwater monitoring association. San Elijo JPA is a wastewater collection and treatment entity that provides recycled water for irrigation uses. It does not utilize or recharge groundwater resources.
- **Project 7: UCSD (Ineligible):** UCSD is a non-profit higher education and research organization. It is not a groundwater management agency, groundwater replenishment district, local agency, or part of a voluntary groundwater monitoring association. Therefore, UCSD is not an eligible monitoring entity.
- **Project 8: City of Escondido (Eligible):** The City of Escondido is an eligible monitoring entity because it is a local agency that is managing all or part of the Escondido Valley Groundwater basin. However, this basin is a low priority basin and, for the purposes of this grant, does not require CASGEM compliance.
- **Project 9: Padre Dam MWD (Eligible):** Padre Dam MWD is a local agency that manages a portion of the San Diego River Valley groundwater basin, and is an eligible monitoring entity.
- **Project 10: Zoological Society (Ineligible):** The Zoological Society is not an eligible monitoring entity because it is not a groundwater management agency, groundwater replenishment district, local agency, or part of a voluntary groundwater monitoring association. The Zoological Society is a non-profit organization

whose mission is to conserve and protect wildlife and provide outreach to the community regarding wildlife and habitat conservation.

- **Project 11: USFS (Ineligible):** USFS is not an eligible monitoring entity because it is a federal agency and not subject to CASGEM. Further, it is not a groundwater management agency, groundwater replenishment district, local agency, or part of a voluntary groundwater monitoring association.
- **Project 12: SWA (Eligible):** SWA is an eligible monitoring entity because it is a water supply agency that manages the Sweetwater Valley basin (as part of the San Diego Formation). The Sweetwater Valley basin is a low priority basin and, for the purposes of this grant, CASGEM compliance is not required.

Table 1-5 shows the groundwater basins in the Region that underlie the projects included in this Proposal. As indicated in **Table 1-5**, there are two unmonitored medium-priority basins in the Region (San Luis Rey Valley and Santa Margarita Valley). There are no project sponsors that are also eligible monitoring entities per CWC §10927 whose service areas or projects overlie the San Luis Rey Valley or Santa Margarita Valley groundwater basins.

San Diego River Valley Groundwater Basin

The City of San Diego's service area and its 3: *San Diego Water Conservation Program* partially overlie the San Diego River Valley groundwater basin. Padre Dam MWD's service area also overlies the San Diego River Valley groundwater basin, although its 9: *Padre Dam Advanced Water Treatment – Phase I Expansion* lies outside the basin itself. The San Diego River Valley groundwater basin has high nitrates, high total dissolved solids (TDS) in the western portion of the basin, and requires iron and manganese treatment. The City of San Diego and Padre Dam MWD have partnered with Helix Water District, Lakeside Water District, and the County of San Diego to monitor the San Diego River Valley groundwater basin in compliance with CASGEM. The San Diego River Valley groundwater basin, as defined by DWR, includes the Santee, Lakeside, Moreno Valley, and El Monte sub-basins. Groundwater management planning² was completed in 2001 by SDCWA in partnership with Padre Dam MWD, Helix Water District, Lakeside Water District, Riverview Water District, and the City of San Diego. A Salt and Nutrient Management Plan for the Santee Basin began in 2013 and is currently in development.

The City of San Diego received notification on August 5, 2015 from DWR that they have been recognized as the designated Monitoring Entity for the San Diego River Valley groundwater basin. A copy of the email notification is included in **Appendix 1-8**, and a formal letter will be available on request upon receipt of the letter from DWR. CASGEM compliance for the San Diego River Valley groundwater basin has been met, and the City of San Diego and Padre Dam MWD are both eligible to receive grant funding under this solicitation.

San Pasqual Valley Groundwater Basin

The City of San Diego's service area overlies the medium-priority San Pasqual Valley groundwater basin. The San Pasqual Valley groundwater basin has been identified as a Tier A basin indicating that it is of high priority for salt and nutrient management, having both significant groundwater storage capacity and significant potential for municipal groundwater use. The San Pasqual Valley groundwater basin is monitored by the City of San Diego and has an established Groundwater Management Plan³ and a Salt and Nutrient Management Plan⁴.

A CASGEM compliance letter from DWR for the City of San Diego, for the San Pasqual Valley groundwater basin is included in **Appendix 1-8**.

Figure 1-1 shows the location of the identified medium-priority groundwater basins in the Region, along with the service areas of each project sponsor that is an eligible monitoring entity and the location of each project. A geographic information system (GIS) shapefile called "Eligible Monitoring Entity Service Area Boundaries" that includes the service area boundaries of each of the eligible monitoring agencies (City of San Diego, City of Escondido, Padre Dam MWD, and SWA) has been uploaded to GRanTS as "Att1_2015IRWM_Eligible_10of10". For clarity, services areas for project sponsors that do not meet the definition of an eligible monitoring entity was not included in this figure.

² SDCWA. 2001. *Groundwater Management Planning Study Santee-El Monte Basin, Phase III Report*. January.

³ City of San Diego. 2007. *San Pasqual Groundwater Management Plan*. November.

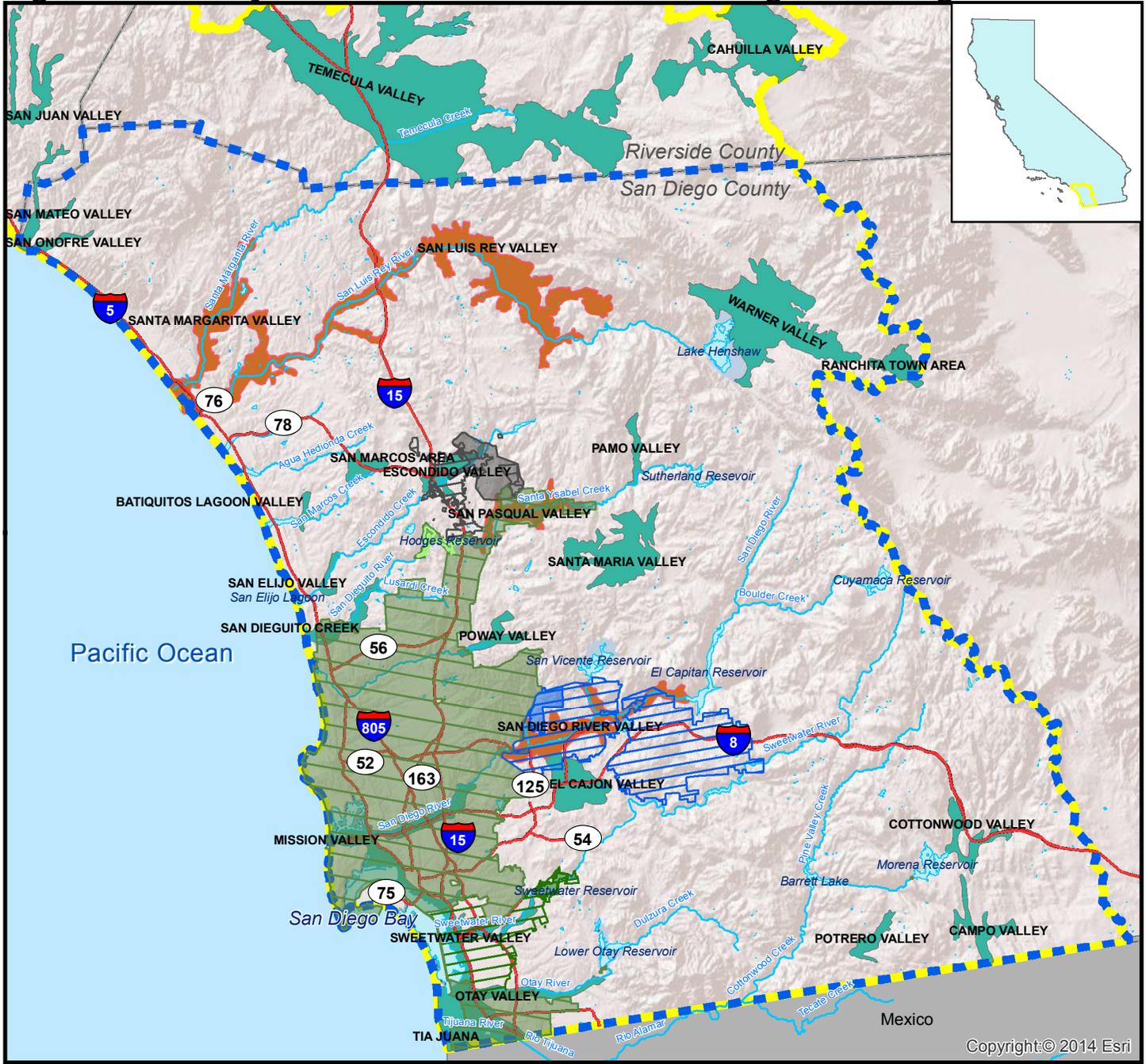
⁴ City of San Diego. 2013. *San Pasqual Valley Groundwater Basin Salt and Nutrient Management Plan*. October.

Table 1-5: Groundwater Basin Monitoring Priority for Projects with Eligible Monitoring Project Proponents

Projects		Project Proponent	Underlying Groundwater Basin(s)	Basin Priority (If Applicable)	Designated Monitoring Entity (If Applicable)	Eligible As a Monitoring Entity?	Included in GIS Shapefile?
Conservation Program							
1	Regional Drought Resiliency Program	SDCWA	San Mateo Valley	Very Low	N/A	No	No
			San Onofre Valley	Very Low	N/A	No	No
			Santa Margarita Valley	Medium	None	No	No
			San Luis Rey Valley	Medium	None	No	No
			Escondido Valley	Very Low	N/A	No	No
			San Pasqual Valley	Medium	City of San Diego	No	No
			Santa Maria Valley	Very Low	N/A	No	No
			San Dieguito Creek	Very Low	N/A	No	No
			Poway Valley	Very Low	N/A	No	No
			Mission Valley	Very Low	N/A	No	No
			San Diego River Valley	Medium	City of San Diego	No	No
			El Cajon Valley	Very Low	N/A	No	No
			Sweetwater Valley	Very Low	N/A	No	No
			Otay Valley	Very Low	N/A	No	No
			Tijuana Basin	Very Low	N/A	No	No
			Batiquitos	Very Low	N/A	No	No
			Lagoon Valley	Very Low	N/A	No	No
			San Elijo Valley	Very Low	N/A	No	No
Pamo Valley	Very Low	N/A	No	No			
San Marcos Area	Very Low	N/A	No	No			
2	Conservation Home Makeover for the Chollas Creek Watershed	Groundwork	N/A	N/A	N/A	No	No
3	San Diego Water Conservation Program	City of San Diego	San Diego River Valley	Medium	City of San Diego	Yes	Yes
			San Pasqual Valley	Medium	City of San Diego	Yes	Yes
			Mission Valley	Very Low	N/A	Yes	Yes

Projects		Project Proponent	Underlying Groundwater Basin(s)	Basin Priority (If Applicable)	Designated Monitoring Entity (If Applicable)	Eligible As a Monitoring Entity?	Included in GIS Shapefile?
			Otay Valley	Very Low	N/A	Yes	Yes
			Poway Valley	Very Low	N/A	Yes	Yes
			San Dieguito Creek	Very Low	N/A	Yes	Yes
			Sweetwater Valley	Very Low	N/A	Yes	Yes
			Tijuana	Very Low	N/A	Yes	Yes
4	Ms. Smarty-Plants Grows Water-Wise Schools	The Garden	El Cajon Valley	Very Low	N/A	No	No
Rural Water Infrastructure Program							
5	Rural Disadvantaged Community Partnership Project – Phase III	RCAC	San Luis Rey Valley	Medium	None	No	No
			Otay Valley	Very Low	N/A	No	No
			Tijuana	Very Low	N/A	No	No
Water Reuse Program							
6	Integrated Water Resource Solutions for the Carlsbad Watershed	San Elijo JPA	San Elijo Valley	Very Low	N/A	No	No
7	UCSD Water Conservation and Watershed Protection	UCSD	Otay Valley	Very Low	N/A	No	No
			Tijuana	Very Low	N/A	No	No
8	Escondido Advanced Water Treatment for Agriculture	City of Escondido	Escondido Valley	Very Low	N/A	Yes	No
9	Padre Dam Advanced Water Treatment – Phase IA Expansion	Padre Dam MWD	San Diego River Valley	Medium	City of San Diego	Yes	Yes
10	Safari Park Drought Response and Outreach	Zoological Society	San Pasqual Valley	Medium	City of San Diego	No	No
Water Quality and Habitat Program							
11	San Diego River Healthy Headwaters Restoration	USFS	N/A	N/A	N/A	No	No
12	Sweetwater Reservoir Wetlands Habitat Recovery	SWA	Sweetwater Valley	Very Low	N/A	Yes	Yes
13	Hodges Reservoir Natural Treatment System	City of San Diego	San Pasqual Valley	Medium	City of San Diego	Yes	Yes

Figure 1-1: Priority Groundwater Basins in the San Diego IRWM Region



Legend

- San Diego IRWM Region
- Funding Area Boundary
- Freeway
- Waterbody
- County
- Medium Priority Groundwater Basin
- Very Low Priority Groundwater Basins

Service Area Boundary for Agencies Eligible for CASGEM Monitoring Entity Designation*

- City of Escondido
- Padre Dam MWD
- City of San Diego
- Sweetwater Authority

Project Area Boundary for Agencies Eligible for CASGEM Monitoring Entity Designation*

- 3 San Diego Water Conservation Program
- 8 Escondido Advanced Water Treatment for Agriculture
- 9 Padre Dam Advanced Water Treatment - Phase IA Expansion
- 12 Sweetwater Reservoir Wetlands Habitat Recovery
- 13 Hodges Reservoir Natural Treatment System

*Note: In accordance with CWC §10927, the following local project sponsors are not included in this map as they do not match the list of potential monitoring entities for high and medium priority basins: Rural Community Assistance Corporation, USDA Forest Service, Groundwork San Diego, UC San Diego, Zoological Society of San Diego, The Water Conservation Garden, San Diego County Water Authority, San Elajo Joint Powers Authority.

Rosalyn Prickett

From: Adrian, George <GAdrian@sandiego.gov>
Sent: Wednesday, August 05, 2015 2:07 PM
To: Herbon, Goldamer; Rosalyn Prickett
Cc: Wiborg, Lan; Abutin, Larry; Cross, Gregory; Arne Sandvik; Albert Lau; Brett Sanders; Brian Olney
Subject: FW: Email Notification - Designation as Monitoring Entity for the California Statewide Groundwater Elevation Monitoring Program

Hi Everyone

Please see below...the hardcopy letter will be following in the mail. But I was assured this would pass as being "official notification"

Thanks

George

George Adrian P.E.
Principal Water Resources Specialist
Long-Range Planning and Water Resources
Public Utilities
525 B Street, Suite 300
San Diego, CA 92101-4409
(619) 533-4680

From: no-reply@water.ca.gov [mailto:no-reply@water.ca.gov]
Sent: Wednesday, August 05, 2015 1:41 PM
To: Adrian, George
Subject: Email Notification - Designation as Monitoring Entity for the California Statewide Groundwater Elevation Monitoring Program

Dear george adrian:

Thank you for volunteering to be a Monitoring Entity for the California Statewide Groundwater Elevation Monitoring (CASGEM) program. The Department of Water Resources (DWR) received your notification that City of San Diego - Public Utilities Department intends to assume responsibility for monitoring and reporting local groundwater elevations for the CASGEM program.

Based on review and verification of the information that you submitted to DWR via the CASGEM Online Submittal System, City of San Diego - Public Utilities Department is designated as the Monitoring Entity for the 9-15 San Diego River Valley.

This is a courtesy automated Email notification. You will also be receiving formal correspondence from DWR regarding your designation as a CASGEM Monitoring Entity.

Thank you for your participation in the CASGEM program.

Sincerely,
Brett Wyckoff
Senior Engineering Geologist
CASGEM Program
Division of Integrated Regional Water Management

DEPARTMENT OF WATER RESOURCES

1416 NINTH STREET, P.O. BOX 942836
SACRAMENTO, CA 94236-0001
(916) 653-5791



April 23, 2014

Mr. George Adrian, PE
Principal Water Resources Specialist
City of San Diego Public Utilities Department
525 B Street, Suite 300, MS906
San Diego, California 92101

Monitoring Entity Designation for the City of San Diego Public Utilities Department
under the California Statewide Groundwater Elevation Monitoring Program

Dear Mr. Adrian:

Thank you for volunteering to be a Monitoring Entity for the California Statewide Groundwater Elevation Monitoring (CASGEM) program. On December 27, 2010, the Department of Water Resources (DWR) received your notification that the City of San Diego Public Utilities Department intends to assume responsibility for monitoring and reporting local groundwater elevations for the CASGEM program. Based on review and verification of the information that you submitted to DWR via the CASGEM Online Submittal System, the City of San Diego Public Utilities Department is designated as the Monitoring Entity for the following groundwater basin:

- San Pasqual Valley (9-10)

The CASGEM Online System is ready to accept submittal of your groundwater elevation data. In accordance with the Water Code, you should submit groundwater elevation data for the wells you have included in the CASGEM program, beginning with data collected in fall 2011.

Additional information is available on the CASGEM program website at <http://www.water.ca.gov/groundwater/casgem>.

If you have any questions about the CASGEM program, please contact Timothy M. Ross in DWR's Southern Region Office at 770 Fairmont Avenue, Suite 102, (818) 500-1645 x278, or email timothy.ross@water.ca.gov.

Thank you for your participation in the CASGEM program.

Sincerely,

A handwritten signature in cursive script, appearing to read "Paula J. Landis".

Paula J. Landis, Chief
Division of Integrated Regional Water Management

cc: Timothy M. Ross, Southern Region Office
Brett Wyckoff, Bonderson, Rm. 213 A